

Mr. 11593/29.06.2021

CSUD-CD

**DECLARAȚIE DE DEPUNERE A CANDIDATURII PENTRU FUNCȚIA DE  
MEMBRU AL CONSILIULUI PENTRU STUDII UNIVERSITARE DE DOCTORAT AL  
INSTITUȚIEI ORGANIZATOARE DE STUDII UNIVERSITARE DE DOCTORAT  
UNIVERSITATEA POLITEHNICA TIMIȘOARA**

Subsemnatul, Dr.ing. Sebastian Muntean, CS I  
prin prezenta îmi depun candidatura pentru funcția de membru al Consiliului pentru  
Studii Universitare de Doctorat al instituției organizatoare de studii universitare de  
doctorat Universitatea Politehnica Timișoara.

Anexez următoarele documente, în conformitate cu art. 20 al Regulamentului  
instituțional de organizare și desfășurare a alegerilor pentru structurile  
organizatorice și funcțiile de conducere ale studiilor universitare de doctorat la  
nivelul instituției organizatoare de studii universitare de doctorat Universitatea  
Politehnica Timișoara:

- Curriculum vitae;
- Autoevaluarea cu privire la îndeplinirea standardelor minimale și obligatorii  
pentru acordarea atestatului de abilitare, în vigoare, aprobate prin ordin al  
ministrului educației, cercetării, tineretului și sportului, potrivit art. 219 alin.  
lit. a) din Legea nr. 1/2011;

Data

25 iunie 2021



### Informații personale

Nume / Prenume

Adresa

Telefon

Fax

E-mail

Naționalitate

Data nașterii

### Experiență profesională

Perioada

Poziția ocupată

Numele și adresa instituției

Activitatea desfășurată

Perioada

Poziția ocupată

Numele și adresa instituției

Activitatea desfășurată

Perioada

Poziția ocupată

Numele și adresa instituției

Activitatea desfășurată

Perioada

Poziția ocupată

Numele și adresa instituției

Activitatea desfășurată

## Curriculum Vitae

### Dr.ing. Sebastian MUNTEAN, CS I

#### MUNTEAN, Sebastian

August 2008 – prezent

##### **Cercetător științific gradul I (CS I)**

Academia Română – Filiala Timișoara,  
Centrul de Cercetări Tehnice Fundamentale și Avansate,  
Sectia de Hidrodinamica, Cavitație și Lichide Magnetice,

##### **Laboratorul de Hidrodinamica și Cavitație**

Bd. Mihai Viteazul nr. 24, Timișoara, RO-300223, România

Tematica abordată: simularea și analiza numerică a curgerii fluidelor, fenomenul de cavitație, hidrodinamica turbinelor Francis/Kaplan, pompelor și a echipamentelor de acționare hidraulică, central hidroelectrice și stații de pompare, controlul curgerilor cu rotație, investigații experimentale în turbine hidraulice, metode numerice și calcul paralel, dispozitive magneto-reologice, mecanica fluidelor Newtoniene și non-Newtoniene, managementul și administrarea proiectelor complexe, managementul și administrarea proiectelor cu parteneri industriali.

Septembrie 2016 – Mai 2020

##### **Cadru didactic asociat**

Universitatea "Politehnica" din Timișoara,  
Facultatea de Mecanică,  
Departamentul de Mașini Mecanice, Utilaje și Transporturi  
Bd. Mihai Viteazul no. 1, Timișoara, RO-300222, România

Predare cursuri: Turbine Hidraulice anul IV MH, Centrale Hidroelectrice și Stații de Pompare anul I Master, proiect de Turbine Hidraulice (2017-2018), Coordonare proiecte de diploma/dizertatie

Septembrie 2018 – prezent

##### **Conducător de doctorat**

Universitatea "Politehnica" din Timișoara,  
P-ta. Victoriei no.2, Timișoara, RO-300006, România

Coordonare program doctoral: 2 studenți doctoranzi în IOSUD UPT.

Aprilie 2002 – prezent

##### **Sef Laborator Simulare Numerica și Calcul Paralel**

Universitatea "Politehnica" din Timișoara,  
Centrul Național pentru Ingineria Sistemelor cu Fluide Complexe,  
Laboratorul de Simulare Numerica și Calcul Paralel  
Bd. Mihai Viteazul no. 1, Timișoara, RO-300222, România

Organizarea și coordonarea activităților de cercetare științifică în domeniul simulării numerice și a calculului paralel, coordonarea și desfășurarea procedurilor de achiziții și mentenanță pentru infrastructura de cercetare.

Perioada	Octombrie 2002 – August 2008
Poziția ocupată	<i>Cercetător științific gradul II (CS II)</i>
Numele și adresa instituției	Academia Română – Filiala Timișoara, Centrul de Cercetări Tehnice Fundamentale și Avansate, Sectia de Hidrodinamica, Cavitație și Lichide Magnetice, Laboratorul de Hidrodinamica și Cavitație Bd. Mihai Viteazul nr. 24, Timișoara, RO-300223, România
Activitatea desfășurată	Tematica abordată: simularea și analiza numerică a curgerii fluidelor, fenomenul de cavitație, hidrodinamica turbinelor Francis/Kaplan, pompelor și a echipamentelor de acționare hidraulică, central hidroelectrice și stații de pompare, controlul curgerilor cu rotație, investigații experimentale în turbine hidraulice metode numerice și calcul paralel, managementul și administrarea proiectelor complexe, managementul și administrarea proiectelor cu parteneri industriali.
Perioada	Noiembrie 1997 – Octombrie 2002
Poziția ocupată	<i>Cercetător științific gradul III (CS III)</i>
Numele și adresa instituției	Academia Română – Filiala Timișoara, Centrul de Cercetări Tehnice Fundamentale și Avansate, Sectia de Hidrodinamica, Cavitație și Lichide Magnetice, Laboratorul de Hidrodinamica și Cavitație Bd. Mihai Viteazul nr. 24, Timișoara, RO-300223, România
Activitatea desfășurată	Tematica abordată: simularea și analiza numerică a curgerii fluidelor, fenomenul de cavitație, hidrodinamica turbinelor Francis și Kaplan și a rețelelor de profile, metode numerice și calcul paralel
Perioada	Septembrie 1996 – Noiembrie 1997
Poziția ocupată	<i>Cercetător științific</i>
Numele și adresa instituției	Academia Română – Filiala Timișoara, Centrul de Cercetări Tehnice Fundamentale și Avansate, Sectia de Hidrodinamica, Cavitație și Lichide Magnetice, Laboratorul de Hidrodinamica și Cavitație Bd. Mihai Viteazul nr. 24, Timișoara, RO-300223, România
Activitatea desfășurată	Tematica abordată: simularea și analiza numerică a curgerii fluidelor, hidrodinamica turbinelor Francis și Kaplan și a rețelelor de profile, metode numerice și calcul paralel, programarea calculatoarelor
Perioada	Octombrie 1995 – August 1996
Poziția ocupată	<i>Asistent de cercetare (1/2 norma)</i>
Numele și adresa instituției	Universitatea "Politehnica" din Timișoara, Institutul pentru Fluide Complexe Bd. Mihai Viteazul no. 1, Timișoara, RO-300222, România
Activitatea desfășurată	Tematica abordată: simularea și analiza numerică a curgerii fluidelor, metode numerice, programarea calculatoarelor
Perioada	Octombrie 1995 – August 1996
Poziția ocupată	<i>Asistent de cercetare</i>
Numele și adresa instituției	Academia Română – Filiala Timișoara, Centrul de Cercetări Tehnice Fundamentale și Avansate, Sectia de Hidrodinamica, Cavitație și Lichide Magnetice, Laboratorul de Hidrodinamica și Cavitație Bd. Mihai Viteazul nr. 24, Timișoara, RO-300223, România
Activitatea desfășurată	Tematica abordată: simularea și analiza numerică a curgerii fluidelor
Perioada	Ianuarie 1995 – Octombrie 1995
Poziția ocupată	<i>Asistent de cercetare</i>
Numele și adresa instituției	Institutul de Chimie Timișoara al Academiei Române, Bd. Mihai Viteazul nr. 24, Timișoara, RO-300223, România
Activitatea desfășurată	Tematica abordată: simularea și analiza numerică a curgerii fluidelor

## Studii

Perioada	Mai 2003 - Septembrie 2017
Titlul/calificarea obținută	Abilitat în domeniul de studii universitare de doctorat inginerie mecanică Titlul tezei de abilitare: " <b>Experimental and numerical flow investigations in hydraulic machines</b> "
Numele și adresa instituției absolvite	Universitatea "Politehnica" din Timișoara, P-ta. Victoriei no. 2A, Timișoara, RO-300006, România
Perioada	Martie 1995 - Aprilie 2002
Titlul/calificarea obținută	Doctor în științe inginerești (cu distincția Magna cum Laudae) Titlul tezei de doctorat: " <b>Metode numerice pentru determinarea campurilor tridimensionale din rotoarele turbinelor Francis</b> "
Numele și adresa instituției absolvite	Universitatea "Politehnica" din Timișoara, Catedra de Mașini Hidraulice Bd. Mihai Viteazul no. 1, Timișoara, RO-300222, România
Activitatea desfășurată	Program doctoral în cadrul doctoratului fără frecvență în tematica: hidrodinamica turbomasinilor; Conducător științific: Academician Prof.dr.doc.ing. Ioan ANTON
Perioada	Octombrie 1994 – Iulie 1995
Titlul / calificarea obținută	Diplomă de studii aprofundate (nota 10)
Numele și adresa instituției absolvite	Universitatea "Politehnica" din Timișoara, Facultatea de Mecanica Catedra de Mașini Hidraulice Bd. Mihai Viteazul no. 1, Timișoara, RO-300222, România
Activitatea desfășurată	Program de studii aprofundate. Conducător științific: Acad. Ioan ANTON, Prof.dr.ing. Romeo SUSAN-RESIGA.
Perioada	Septembrie 1989 - Iunie 1994 (nota generala de licenta 9.53)
Titlul/calificarea obținută	Diploma de inginer în specializarea Inginerie Mecanică
Numele și adresa instituției absolvite	Universitatea "Politehnica" din Timișoara, Facultatea de Mecanica Catedra de Mașini Hidraulice Bd. Mihai Viteazul no. 1, Timișoara, RO-300222, România
Activitatea desfășurată	Student la Facultatea de Mecanică, specializarea Mașini Hidraulice
Perioada	Septembrie 1984 – Iulie 1988
Titlul/calificarea obținută	Diplomă de Bacalaureat, specializarea electrotehnică
Numele și adresa instituției absolvite	Liceul de Matematica-Fizica "Emanoil Gojdu", Oradea
Activitatea desfășurată	Elev de liceu, la specializarea electrotehnică

## Activitatea Științifică

Tematica abordată: mecanica fluidelor, hidrodinamica masinilor si echipamentelor hidraulice, cavitaje, controlul curgerii, metode numerice si calcul paralel, dispozitive magneto-reologice

Lucrări științifice si patente

- 27 în reviste ISI
- 12 în reviste BDI
- 43 în alte reviste
- 31 in volume ISI
- 71 în volumele conferintelor internaționale
- 3 brevete OSIM

Proiecte și contracte de cercetare:

- 2 proiecte internaționale
- 5 contracte internaționale
- 20 proiecte naționale
- 34 contracte naționale

## Cărți, Monografii

- S. Muntean, "Analiza numerica a curgerii in turbinele Francis", Editura Orizonturi Universitare, Timișoara, 2008, ISBN 978-973-638-355-7
- Anton L., Balint D., Baya A., Badarau R., Bej A., Milos T., Muntean S., Resiga R., Stuparu A., "Mecanica Fluidelor, Masini Hidraulice si Actionari. Aplicatii de Calcul", Editura Orizonturi Universitare, Timișoara, 2004, ISBN 978-973-638-076-9
- R. Susan-Resiga, S. Muntean, S. Bernad, D. Balint, I. Balint, "Metode Moderne de Calcul Paralel pentru Simularea Curgerii Fluidelor", Editura Orizonturi Universitare, Timișoara, 2003, ISBN 978-973-638-064-5

- Muntean S., Rudolf P., Cavazzini G., Doujak E., Selbo Storli P.T., (Editori) "State-of the-Art, Challenges and Perspectives in Hydraulic Machines and Systems", Special Issue in the section "State-of-the-Art Energy Related Technologies", *Energies Journal*, March 2021.
- Rossi M., Renzi M., Ștefan D., Muntean S., (Editori) "Small-Scale Hydropower and Energy Recovery Interventions: Management, Optimization Processes and Hydraulic Machines Applications", Special Issue in section "Energy Sustainability", *Sustainability Journal*, August 2021.
- Susan-Resiga R., Muntean S., Bernad S., (Editori), Proceedings of the "25th IAHR Symposium on Hydraulic Machinery and Systems", Timisoara, 20-24 Sept. 2010, in *Institute of Physics. Conference Series Earth and Environment Science*, Issue 12, ISSN 1775-1315, 2010. (<http://iopscience.iop.org/1755-1315/12/>)
- Susan-Resiga R., Bernad S., Muntean S. (Editori), Proceedings of the "2nd IAHR International Meeting of the Workgroup on Cavitation and Dynamic Problems in Hydraulic Machinery and Systems, Timisoara, 24-26 Oct. 2007, in *Scientific Bulletin of the "Politehnica" University of Timisoara, Transactions on Mechanics*, Issue 6, Tom 52(66), (244 pp.), ISSN 1224-6077, 2007. (<http://mh.mec.upt.ro/iahrwg2007/>)
- Susan-Resiga R., Bernad S., Muntean S. (Editori) *Vortex Hydrodynamics and Applications*, Eurostampa Publishing House, (600 pp.), ISBN: 978-973-687-659-2, 2007.
- Muntean S., Ruprecht A. (Editori), Proceedings of the 3rd Romanian-German Workshop on Turbomachinery Hydrodynamics, Orizonturi Universitare Publishing House, (160 pp.), ISBN 978-973-638-329-8, 2007.
- Bernad S., Muntean S., Susan-Resiga R. (Editori), Proceedings of the "3rd Workshop on Vortex Dominated Flows. Achievements and Open Problems", in *Scientific Bulletin of the "Politehnica" University of Timisoara, Transactions on Mechanics*, Issue 3, Tom 52(66), (158 pp.), ISSN 1224-6077, 2007. (<http://mh.mec.upt.ro/accord-fluid/workshop2007/>)
- Bernad S., Muntean S., Susan-Resiga R. (Editors), Proceedings of the 2nd Workshop on Vortex Dominated Flows Achievements and Open Problems, in *Scientific Bulletin of the "Politehnica" University of Timisoara, Romania, Transactions on Mechanics, Special Issue*, (196 pp.), ISSN 1224-6077, 2006. (<http://mh.mec.upt.ro/accord-fluid/workshop2006/>)
- Bernad S., Muntean S., Susan-Resiga R. (Editori), Proceedings of the Workshop on Vortex Dominated Flows Achievements and Open Problems, in *Scientific Bulletin of the "Politehnica" University of Timisoara, Romania, Transactions on Mechanics, Special Issue*, (214 pp.), ISSN 1224-6077, 2005. (<http://mh.mec.upt.ro/accord-fluid/workshop2005/>)
- Susan-Resiga R., Bernad S., Muntean S., Popoviciu M. (Editori), Proceedings of the 6th International Conference on Hydraulic Machinery and Hydrodynamics, *Scientific Bulletin of the 'Politehnica' University of Timisoara, Romania, Transactions on Mechanics*, Tom 49(63), Special Issue, (740 pp.), ISSN 1224-6077, 2004. (<http://mh.mec.upt.ro/hmh2004/>)
- Anton I., Resiga R., Sofonea S., Bernad S., Muntean S., (Editori) Proceedings of Workshop on Numerical Methods in Fluid Mechanics and FLUENT Applications, Orizonturi Universitare Publishing House, (312 pp.), ISBN 973-638-022-X, 2003.

*Membru in comitete de  
organizare a evenimentelor*

- 7th IAHR International Meeting of the Workgroup on Cavitation and Dynamic Problems in Hydraulic Machinery and Systems, 31 Ianuarie - 1 Februarie 2017, Porto, Portugal.
- Conferinta „Diaspora in Cercetarea Stiintifica si Invatamantul Superior din Romania”, Workshop-ului de Energii Regenerabile, 25-28 Aprilie 2016, Timisoara
- 4-a Conferinta CREDING "Provocările secolului XXI și educația inginerilor", 14-15 mai 2015, Timișoara.
- 9th German-Romanian Workshop on Turbomachinery Hydrodynamics, 16-18 Iulie 2013, Timisoara.
- 7th German-Romanian Workshop on Turbomachinery Hydrodynamics, 26-28 Mai 2011, Timisoara.
- 25th IAHR Symposium on Hydraulic Machinery and Systems, 20-24 Septembrie 2010, Timisoara.
- 5th German-Romanian Workshop on Turbomachinery Hydrodynamics, 2-4 Iulie 2009, Timisoara.
- 2nd IAHR International Meeting of the Workgroup on Cavitation and Dynamic Problems in Hydraulic Machinery and Systems, 24-26 Octombrie 2007, Timisoara.
- 3rd German-Romanian Workshop on Turbomachinery Hydrodynamics, 10-12 Mai 2007, Timisoara.
- 3rd Workshop on Vortex Dominated Flows. Achievements and Open Problems, 1 - 2 Iunie 2007, Timisoara.
- 2nd Workshop on Vortex Dominated Flows Achievements and Open Problems, 30 Iunie – 1 Iulie 2006, Bucuresti.
- 1st German-Romanian Workshop on Turbomachinery Hydrodynamics, 24-26 Noiembrie 2005, Timisoara.
- 1st Workshop on Vortex Dominated Flows Achievements and Open Problems, 10-11 Iunie 2005, Timisoara.
- 6th International Conference on Hydraulic Machinery and Hydrodynamics, 21-22 Octombrie 2004, Timisoara.
- Workshop on Numerical Methods in Fluid Mechanics and FLUENT Applications, 22-23 Mai

## Organizare de cursuri

### Membru in comitete stiintifice

- 2003, Timisoara.  
8th international Conference on Magnetic Fluids (ICMF8), 29 June - 3 July 1998, Timisoara.  
Numerical Methods in Fluid Dynamics and FLUENT applications, 18-23 Septembrie 2006, Timisoara.  
9th International Conference on Energy and Environment "Energy for a Green Digital World" (CIEM2019), 17-28 Octombrie 2019, Timisoara.  
20th International Seminar on Hydropower Plants, "Celebrating 40 Years of Industry – Academic Engament", 14-16 Noiembrie 2016, Vienna, Austria  
8th International Conference on Energy and Environment (CIEM2017), 19-20 Octombrie 2017, Bucuresti.  
19th International Seminar on Hydropower Plants, "Flexible Operation of Hydropower Plants in the Energy System", 9-11 Noiembrie 2016, Vienna, Austria  
7th International Conference on Energy and Environment (CIEM2015), 22-23 Octombrie 2015, Iasi.  
6th International Conference on Energy and Environment (CIEM2013), 7-8 Noiembrie 2013, Bucuresti.

### Membru in asociatii profesionale

- European Association of Research Managers and Administrators (EARMA)  
Coalitia Romana pentru Educatie in Inginerie (CREDING)  
Asociatia Romana pentru Promovarea Fluidelor Magnetice (ARPFM)

## Activitatea Managerială

- 2012 – prezent Secretar Stiintific al Centrului de Cercetari Tehnice Fundamentale si Avansate (CCTFA) din cadrul Academiei Romane – Filiala Timisoara  
2002 – prezent Sef al Laboratorului de Simulare Numerica si Calcul Paralel, Centrul Național pentru Ingineria Sistemelor cu Fluide Complexe, Universitatea "Politehnica" din Timișoara  
2015 – 2016 Membru in Comisia de Energie, Mediu si Schimbări Climatice a Colegiului Consultativ pentru Cercetare-Dezvoltare-Inovare (CCCDI)  
2012 – 2014 Membru in Consiliul National pentru Prognoza si Statistica din Invatamantul Superior (CNPSIS)  
2009 – 2011 Membru in Comisia de Inginerie Mecanica a Consiliului National pentru Cercetare Stiintifica in Invatamantul Superior (CNCSIS)  
2010 – prezent Legal Entity Appointment Representative (LEAR) al Academiei Romane – Filiala Timisoara la Comisia Europeana

## Competențe

Limba maternă  
Limbi străine cunoscute

Auto evaluare

Nivel

**Engleză**

### Română

Grad de percepere			Scris
Ascultat	Citit	Vorbit	
bine	bine	Bine	bine

## Stagii de cercetare

Ianuarie-Martie 2005, Cercetător invitat, Universitatea din Stuttgart, Germania  
Institutul de Mecanica Fluidelor si Masini Hidraulice  
Titlul proiectului: **High Performance Computing for 3D Unsteady Swirling Flow Simulation in Draft Tube**  
Coordonatori științifici: Dr. Albert Ruprecht, Prof.dr.ing. Romeo Susan-Resiga  
Proiect HPC-Europa No. 506079

## Cursuri de perfecționare postuniversitare

- 25 – 29 Iulie, 2005: CISM International Center for Mechanical Sciences, Udine, Italy, Curs intitulat: **Fluid Dynamics and Cavitating Turbopumps**.
- 30-31 Octombrie, 2002: SimTec Ltd., Software & Services for Design and Development, Thessaloniki, Greece, Curs intitulat: **User Defined Function – FLUENT Programming**
- 31 Octombrie – 2 Noiembrie, 2001: Tensor SRL. Engineering Software, Bucharest, Romania, Curs intitulat: **Gambit and Fidap Advanced Course**.
- 25 - 26 Ianuarie 1999: Enervac – Flutec Ltd, Software & Services for Development, Thessaloniki, Greece, Curs intitulat: **Gambit and Fluent Training**
- 23-27 Septembrie 1996: École Polytechnique Fédérale de Lausanne (EPFL), Lausanne, Elvetia. Curs intitulat: **Grid Generation and Parallel Computing Course** in cadrul programului *Computation in Sciences Methods and Algorithms on Supercomputing for Engineering (COSMASE)*

Cursuri de perfecționare de  
extindere a competențelor

Instruiri în domeniul  
managementului proiectelor și  
instrumentelor de finanțare

- Sem. I, 1999: Universitatea "Politehnica" Timisoara, Facultatea de Automatica și Calculatoare, Departamentul de Calculatoare, Curs: **Programare Orientată pe Obiecte**, Lector: Prof.dr.ing. V. Stoicu-Tivadar
- Sem. II, 1998: Universitatea "Politehnica" Timisoara, Facultatea de Automatica și Calculatoare. Departamentul de Calculatoare, Curs: **Structuri de date avansate și tehnici de programare**, Lector: Prof.dr.ing. Vladimir Cretu
- Sem. I, 1997: Universitatea "Politehnica" Timisoara, Facultatea de Automatica și Calculatoare, Departamentul de Calculatoare, Curs: **Structuri de date și tehnici de programare**, Lector: Prof.dr.ing. V. Cretu
- Sem. I, 1996: Universitatea "Politehnica" Timisoara, Facultatea de Automatica și Calculatoare, Departamentul de Calculatoare, Curs: **Structuri de date și arhitecturi pentru calcul paralel**, Lector: Conf.dr.ing. P. Eles
- Sem. I, 1996: Universitatea "Politehnica" Timisoara, Facultatea de Automatica și Calculatoare, Departamentul de Calculatoare, Curs: **Programare C/C++**, Lector: Conf.dr.ing. P. Eles
- Sem. I, 1996: Universitatea de Vest din Timisoara, Facultatea de Matematica, Curs: **Metode Numerice în Mecanica Fluidelor**, Lector: Prof.dr.mat. V. Stan
- 11-12 Mai 2009: Helmholtz Office, Brussels, Belgia, *European Association of Research Managers and Administrators (EARMA)* Training Course on "**Intellectual Property Rights and Contract Management**", Lecturer: Susanne Burnett
- 26-27 Iunie 2008: Forschungszentrum Karlsruhe, Germany. *European Association of Research Managers and Administrators (EARMA)* Training Course on "**Effective Negotiations**", Lecturer: Kenneth Taylor
- 28-29 Aprilie 2008: Helmholtz Office, Brussels, Belgia, *European Association of Research Managers and Administrators (EARMA)* Training Course on "**Advanced International Project Management**", Lecturer: Dr. Susanne Rahner
- 6-7 Martie 2008: Helmholtz Office, Brussels, Belgia, *European Association of Research Managers and Administrators (EARMA)* Training Course on "**Leadership: Managing and Motivating Teams**", Lecturer: Kenneth Taylor
- 12 Iulie 2007: Camera de Comerț și Industrie Timisoara, Romania, Training Course on "**How to write a FP7 Proposal Successfully**", Lecturer: Sean McCarty
- 21-22 Mai 2007: Helmholtz Office, Brussels, Belgia. *European Association of Research Managers and Administrators (EARMA)* Training Course on "**Financial Management in EU Projects**", Lecturer: Paul Drath
- 16 Aprilie 2007: Helmholtz Office, Brussels, Belgia. *European Association of Research Managers and Administrators (EARMA)* Training Course on "**FP7 Agreements**", Lecturers: Lotte Jaspers, Jet van Dijk, Margot Spaargaren
- 20-23 Martie 2007: Camera de Comerț și Industrie Timisoara, Romania Ministry of Economy and Finance Training Course on "**Horizontal Training for Structural Instruments**", Lecturer Team Leader: Dr. Dimitra Ioannou
- 16 Mai 2006: Forschungszentrum Karlsruhe, Germany. *European Association of Research Managers and Administrators (EARMA)* Training Course on "**Risk Management in Projects**" Lecturer: Prof.dr. Bernd J. Madauss.
- 15 Mai 2006: Forschungszentrum Karlsruhe, Germany. *European Association of Research Managers and Administrators (EARMA)* Training Course on "**Coordination of Complex Projects**" Lecturer: Prof.dr. Bernd J. Madauss.
- 24 -26 Iunie 2004: *European Association of Research Managers and Administrators Conference (EARMA)*, București, Romania, **Metode și tehnici de management și administrare în cercetare**

Premii

- o **Diploma de Merit pentru Rezultate Deosebite în Cercetarea Științifică**, acordat de **Universitatea Politehnica Timisoara** echipei de conducere a Centrului National pentru Ingineria Sistemelor cu Fluide Complexe, în care am fost nominaliz pentru activitatea desfășurată în calitate de Șef de Laborator Simulare Numerică și Calcul Paralel, 2004.
- o **Teza de doctorat a anului 2002**, acordat de **Academia de Științe Tehnice din România – Filiala Timisoara**, 2004.
- o **Tanar cercetator eminent cu rezultate deosebite în activitatea de cercetare**, acordat de **Asociația Orizonturi Universitare**, Timisoara, 2003.
- o **Premiul Ion Tiriac**, acordat de **CASA Auto Timisoara**, 2003.

Alte competențe

Carnet de conducere categoria B

Sisteme de operare si administrare retele de calculatoare: Windows, Linux

CFD: Fluent – Gambit, Fidap, Polyflow, TecPlot, G/Turbo, TURBOdesign-1

Limbaje de programare (POO): C/C++, Pascal, Fortran

Desktop Publishing: Adobe Photoshop, Corel Draw

Calcul tabelar: Excel, QuatroPro

Editoare de text: MS Word, Word Perfect

Timisoara,4 Februarie 2021

Dr.ing. Sebastian Muntean, CS I



## Instructiuni

privind introducerea datelor in Grila de lucru a Fisei de evaluare

**Grila de evaluare a fost conceputa detaliat, luand in considerare fiecare indicator din Fisa de evaluare pentru domeniul: Inginerie Mecanica (Comisia 17) si care a fost trimis fiecarui conducator de doctorat impreuna cu grila excel**

**Fisierul Centralizator se genereaza automat in baza completarii fisierelor N1.1 - C, in consecinta acest fisier se va deschide doar pentru a viziona punctajele pe parcursul completarii si la finalizarea grilei se listeaza**

**Intrucat s-au generat un numar maximal de campuri de lucru (linii), dupa completarea fiecarui fisier, campurile goale se vor sterge pana la linia total**

**Este obligatorie completarea tuturor coloanelor din tabele, altfel punctajul individual nu se va genera**

**Nu stergeti fisierele in care nu aveti ce sa completati, in acest caz, punctajul va fi zero dar va conta in algoritmul de calculul a sumei de indicatori**

## Legenda abrevierii indictorilor

- N1.1. Manuale suport de curs (conf. Fisei disciplinei) - prim autor
- N1.2. Manuale suport de curs (conf. Fisei disciplinei) - co-autor
- N1.3. Manuale suport de curs (conf. Fisei disciplinei), Format electronic disponibil pe platforma univ/fac/dep -autor
- N2.1. Standuri de laborator (constructie/modernizari) certificate de directorul de departament
- N2.2. Indrumator laborator/carte si maplicatii format tiparit sau electronic (autor, co-autor)
- N3.1. Articole si publicatii BDI (neincluse in A2.1) - prim autor sau autor corespondent
- N3.2. Articole si publicatii BDI (neincluse in A2.1), co-autor
- P1.1. Articole și publicații științifice indexate Web of Science - Thomson Reuters, Autor corespondent/Prim autor, maxim 3 autori
- P1.2. Articole și publicații științifice indexate Web of Science - Thomson Reuters, Autor corespondent/Prim autor, minim 4 autori
- P1.3. Articole și publicații științifice indexate Web of Science - Thomson Reuters; co-autor, maxim 3 autori
- P1.4. Articole și publicații științifice indexate Web of Science - Thomson Reuters; co-autor, minim 4 autori
- P2.1<4 Brevete internationale indexate in Web of Science-Derwent Innovation, prim autor; maxim 3 autori
- P2.1>4 Brevete internationale indexate in Web of Science-Derwent Innovation; prin autor/ autor corespondent; minim 4 autori
- P2.2<4 Brevete indexate OSIM; prim autor/autor corespondent; maxim 3 autori
- P2.2>4 Brevete indexate OSIM; prim autor/autor corespondent; minim 4 autori inclusiv

- P2.2.1<4** Brevete internationale indexate in Web of Science-Derwent Innovation; co-autor; maxim 3 autori
- P2.2.1>4** Brevete internationale indexate in Web of Science-Derwent Innovation; co-autor; minim 4 autori inclusiv
- P.2.2.2<4** Brevete indexate OSIM; co-autor; maxim 3 autori
- P2.2.2>4** Brevete indexate OSIM; co-autor; minim 4 autori
- N4.1-2** Produse, tehnologii, platforme și servicii inovative (validate conform procedurilor specifice unităților de învățământ superior sau de cercetare
- N4.3** Monografii/cărți de specialitate, format tipărit/electronic (min. 100 pag.); prim autor
- N4.4** Monografii/cărți de specialitate, format tipărit/electronic (min. 100 pag.); co-autor
- N5** Prezentarea/Diseminarea rezultatelor: prezență la manifestări științifice în calitate de autor/co-autor de lucrări, profesor invitat
- S** Atragere resurse financiare prin granturi/proiecte/contracte terți
- C** Citări în publicații BDI (WOS si Scopus)

## FISA STANDARDE MINIMALE CONCURS PROFESOR - DOMENIUL:INGINERIE MECANICA

Dr.ing. Sebastian MUNTEAN, CS I

Specificatie	Domeniul activitatilor	Indicator	Punctaj obtinut	Punctaj minim grila	Procent realizat in raport cu punctajul minim pt prof. [%]	Indicatori
Activitatea didactica/profesionala	A.1.1	N1	9.00	2.00	<b>450.00</b>	indicator indeplinit
		N1.1	1.00	1.00	<b>100.00</b>	indicator indeplinit
		N1.3	7.00	1.00	<b>700.00</b>	indicator indeplinit
	A.1.2	N2	8.00	4.00	<b>200.00</b>	indicator indeplinit
		N.2.1	3.00	2.00	<b>150.00</b>	indicator indeplinit
Activitatea de cercetare	A21+A2.3	P1+P2	64.41	10.00	<b>644.11</b>	indicator indeplinit
		P1	42.65	6.00	<b>710.80</b>	indicator indeplinit
	A2.2	N3	28.00	10.00	<b>280.00</b>	indicator indeplinit
		N3.1	7.00	5.00	<b>140.00</b>	indicator indeplinit
	A2.4+A2.5	N4	12.00	2.00	<b>600.00</b>	indicator indeplinit
		N43	9.00	1.00	<b>900.00</b>	indicator indeplinit
Recunoasterea impactului activitatii	A3.1	S1+S2	736.61	50.00	<b>1473.22</b>	indicator indeplinit
		N5	80.00	10.00	<b>800.00</b>	indicator indeplinit
	A3.3	C	1829.01	25.00	<b>7316.02</b>	indicator indeplinit

N.1.1 **Manuale suport de curs (conf. Fisei disciplinei)**

**Format tiparit/electronic (minim 100 pagini)**

**Prim autor**

Nr. Crt	Autorii	Nr. Autori	Titlul	Editura	Anul publicarii	ISBN	punctaj
1	<b>Muntean S.</b>	1	Analiza numerica a curgerii in turbinele Francis (376 p.)	Editura Orizonturi Universitare	2008	978-973-638-355-7	1.00
							0.00
							0.00
							0.00
<b>Total</b>							<b>1.00</b>

N1.2 **Manuale suport de curs (conf. Fisei disciplinei)**

coautor

**Format tiparit/electronic (minim 100 pagini)**

Nr. Crt	Autorii	Numar autori	Titlul	Editura	Anul publicarii	ISBN	punctaj
1	Anton L., Balint D., Baya A., Badarau R., Bălășoiu V., Bej A., Milos T., <b>Muntean S.</b> , Resiga R., Stuparu A.	10	Mecanica Fluidelor, Masini Hidraulice si Actionari. Aplicatii de Calcul (296 p.)	Editura Orizonturi Universitare, Timișoara,	2004	978-973-638-076-9	1.00
							0.00
							0.00
	<b>Total</b>						<b>1.00</b>

N1.3 **Manuale suport de curs (conf. Fisei disciplinei)**

*Format electronic disponibil pe platforma univ/fac/dep -autor*

Nr. Crt	Autorii	Adesa de site	Anul postarii	nr. Autori	punctaj
1	<b>Muntean S.</b> , Hidrodinamica turbinelor hidraulice. Analiza curgerii în tubul de aspirație.	<a href="http://www.piif.ro/">http://www.piif.ro/</a>	2012	1	1.00
2	<b>Muntean S.</b> , Hidrodinamica turbinelor hidraulice. Analiza curgerii în distribuitor.	<a href="http://www.piif.ro/">http://www.piif.ro/</a>	2012	1	1.00
3	<b>Muntean S.</b> , Hidrodinamica turbinelor hidraulice. Analiza curgerii în camera spirală.	<a href="http://www.piif.ro/">http://www.piif.ro/</a>	2012	1	1.00
4	<b>Muntean S.</b> , Hidrodinamica turbinelor hidraulice. Analiza curgerii în rotorul Kaplan	<a href="http://www.piif.ro/">http://www.piif.ro/</a>	2013	1	1.00
5	<b>Muntean S.</b> , Hidrodinamica turbinelor hidraulice. Analiza curgerii în rotorul Francis	<a href="http://www.piif.ro/">http://www.piif.ro/</a>	2012	1	1.00
6	<b>Muntean S.</b> , Monitorizarea și reglarea turbinelor hidraulice. Stabilitatea funcționării (vârtejul funie)	<a href="http://www.piif.ro/">http://www.piif.ro/</a>	2013	1	1.00
7	<b>Muntean S.</b> "Centrale Hidroelectrice si Statii de Pompare" S2-M-MEC-HMSH1-CHESP	<a href="https://cv.upt.ro/course/">https://cv.upt.ro/course/</a>	2020	1	1.00
					0.00
					0.00
					0.00
					0.00
<b>Total</b>					<b>7.00</b>

N2.1 **Standuri de laborator (constructier/modernizari) certificate de directorul de departament**

Nr. Crt	Denumire stand/an constructie sau modernizare	Anul constructie/ modernizare	Punctal individual
1	Laborator de simulare numerica si calcul paralel (constructie/modernizare)	2004-2012-2020	1.00
2	Stand pentru investigarea curgerilor nestationare cu vartej (constructie)	2007-2013-2020	1.00
3	Stand pentru investigarea curgerilor in pompe centrifuge (constructie)	2008-2014-2020	1.00
			0.00
			0.00
	<b>Total</b>		<b>3.00</b>

N2.2 **Indrumator laborator/carte si aplicatii format tiparit sau electronic**  
autor, co-autor

Nr.crt.	Autori	Nr. Autori	Titlul	Anul editarii	ISBN	Punctaj individual
1	<b>Muntean S.</b>	1	Analiza curentului la intrare in rotor	2012		1.00
2	<b>Muntean S.</b>	1	Analiza preliminara a variantelor pentru alegerea turbinei Turgo	2012		1.00
3	<b>Muntean S.</b>	1	Calculul Coeficientului de Cavitate	2012		1.00
4	<b>Muntean S.</b>	1	Proiectarea preliminara a turbinei Banki	2013		1.00
5	<b>Muntean S.</b>	1	Transpunerea rezultatelor de la model la prototip pentru o turbina hidraulica	2013		1.00
						0.00
						0.00
	<b>Total</b>					<b>5.00</b>





Total

7.00

N3.2 **Articole si publicatii BDI (neincluse in A2.1)**  
co-autor

Nr. crt.	Nume autori	Numar autori	Titlul lucrarii	Denumire Jurnal /ISSN	Volum/ Numar	Anul publicarii	nr. pagini (de la .. pana la:)	Punctaj individual
1	Ardelean, T., Susan-Resiga, R., Muntean, S.	3	Vortex breakdown in decelerated swirling flows Magnetorheological fluids flow modelling used in a magnetorheological brake configuration	IEEE Xplore (SCOPUS)	8937569	2019	6–10	1.00
2	Szakai R.-A., Susan-Resiga D., Muntean S., Vekas L.	4	Software solution for efficiency assessment of the hydraulic pumps in service	IEEE Xplore (SCOPUS)	8937624	2019	403-407	1.00
3	Anton A., Mos D., Muntean S., Draghici, I.	4	Experimental analysis of the unsteady pressure field induced by a simplified geometry of the suction elbow at the pump inlet	IEEE Xplore (SCOPUS)	8937705	2019	374-378	1.00
4	Mos D.C., Muntean S., Opris V., Ant	4	Experimental investigations of a MR clutch for a centrifugal pump	Advanced Structured Materials (SCOPUS)	98	2019	253-263	1.00
5	Bosioc A.I., Ardelean T., Szakai R., V	6	Numerical assessment of stress concentration in Francis runner blade — crown/band junctions	ITM Web of Conferences (ProQuest)	29	2019	2006	1.00
6	Predoiu I.–C., Marsavina L, <b>Muntean</b>	3	Evaluation of the mechanical properties and failure mechanism of fibres formed in municipal wastewater systems	IOP Conference Series: Materials Science and Engineering (SCOPUS)	416(1)	2018	12038	1.00
7	Micota D., Galatanu S.V., Marsavina	4						

8	Bosioc A.I., Beja T.E., <b>Muntean S.</b> , B 5	Experimental investigations of MR Fluids in air and water used for brakes and clutches	Advanced Structured Materials (SCOPUS)	65	2017	197-207	1.00
9	Tanasa C., <b>Muntean S.</b> , Bosioc A.I., 5	Influence of the air admission on the unsteady pressure field in a decelerated swirling flow	UPB Scientific Bulletin, Series D: Mechanical Engineering (SCOPUS)	78(3)	2016	161-170	1.00
10	Draghici I., Bosioc, A.I., <b>Muntean S.</b> , 4	Experimental investigation of the non-uniform inflow generated by the symmetrical suction elbow of a large pump	UPB Scientific Bulletin, Series D: Mechanical Engineering (SCOPUS)	76(3)	2014	207-214	1.00
11	Dragomirescu F.I., Susan-Resiga R., 13	Proper Orthogonal Decomposition Method in Swirling Flows Applications	PAMM (Scopus Database)	13	2013	441-442	1.00
12	Pasca N., Marsavina L., Negru R., M 4	Estimation of the Stress Intensity Factor for 3D Cracked T – Joint	In: Jármai K., Farkas J. (eds) Design, Fabrication and Economy of Metal Structures (Springer Link Database)		2013	273-280	1.00
13	Bernad S.I., Susan-Resiga R., <b>Muntea</b> 3	Two-phase cavitating flow in turbomachines	Research Journal of Applied Sciences, Engineering and Technology (SCOPUS)	4(22)	2012	4685-4691	1.00
14	Gînga G., Anton L., Baya A., <b>Muntea</b> 4	Numerical investigation of the 3D flow in the suction elbow and impeller of a storage pump	UPB Scientific Bulletin, Series D: Mechanical Engineering (SCOPUS)	74(1)	2012	43-50	1.00
15	Stuparu A., Susan-Resiga R., Anton I 4	A new approach in numerical assessment of the cavitation behaviour of centrifugal pumps	International Journal of Fluid Machinery and Systems (JSTAGE database)	4(1)	2011	104-113	1.00

16	Tănasă C., Bosioc A.I., <b>Muntean S.</b> , 4	Flow-Feedback for Pressure Fluctuation Mitigation and Pressure Recovery Improvement in a conical diffuser with swirl	International Journal of Fluid Machinery and Systems (JSTAGE database)	4(1)	2011	47-56	1.00
17	Petit O., Bosioc A.I., Nilsson H., <b>Mur</b> 5	Unsteady Simulations of the Flow in a Swirl Generator using OpenFOAM	International Journal of Fluid Machinery and Systems (JSTAGE database)	4(1)	2011	199-208	1.00
18	Dunca G., <b>Muntean S.</b> , Isbășoiu E.C. 3	3D numerical analysis of the impeller - Stator interaction into a storage pump	UPB Scientific Bulletin, Series D: Mechanical Engineering (SCOPUS)	72(1)	2010	149-156	1.00
19	Susan-Resiga R., <b>Muntean S.</b> , Stein I 4	Axi-symmetric Swirling Flow Simulation of the Draft Tube Vortex in Francis Turbines at Partial Discharge	International Journal of Fluid Machinery and Systems (JSTAGE database)	2(4)	2009	295-302	1.00
20	Baya A., Bosioc A., <b>Muntean S.</b> , Susi 4	Experimental Investigations of the Vortex Rope into a Simplified Draft Tube and its Flow Control	Acta Technica Napocensis, Series: Applied Mathematics and Mechanics (Copernicus Database) In: Xu J., Wu Y., Zhang Y., Zhang J. (eds) Fluid Machinery and Fluid Mechanics (Springer Link Database)	52(II)	2009	249 -257	1.00
21	Susan-Resiga R., <b>Muntean S.</b> 2	Decelerated Swirling Flow Control in the Discharge Cone of Francis Turbines	Machinery and Fluid Mechanics (Springer Link Database)		2009	89-96	1.00
							0.00
							0.00
							0.00
							0.00
<b>Total</b>							<b>21.00</b>

P1.1 **Articole și publicații științifice indexate Web of Science - Thomson Reuters \*, \*\***  
**Autor corespondent/Prim autor** **maxim 3 autori**

Nr. crt.	Autor corespondent=2; Prim autor=1	Nume autori	Titlul lucrării	Denumire Jurnal /ISSN	Volum/ Numar	Anul publicării	nr. pagini (de la .. pana la:)	Factor de impact in anul publicării	Punctaj individual pt n max 3
1	2	Szakal R.A., Doman A., <b>Muntean S.</b>	Influence of the Reshaped Elbow on the Unsteady Pressure Field in a Simplified Geometry of the Draft Tube	Energies	14(5)	2021	1393	2.704	5.81
1	2	Sida Manea A., <b>Muntean S.</b> , Stroiță D.C.	Analytical approach and numerical methodology validated against experimental data on S shape airfoil for wide flow angles of attack	Proceedings of the Romanian Academy Series A Mathematics, Physics, Technical Sciences, Information Science	21(2)	2020		1.294	2.99
2	2	Ciocan T., Susan-Resiga R., <b>Muntean S.</b>	Modelling and optimization of the velocity profiles at the draft tube inlet of a Francis turbine within an operating range	Journal of Hydraulic Research/ 0022-1686	54(1)	2016	74-89	2.098	4.60
3	1	<b>Muntean S.</b> , Susan-Resiga R.F., Anton I.	Mixing interface algorithm for 3D turbulent flow analysis of the GAMM Francis turbine	Modeling Fluid Flow: The State-of-the-Art		2004	359-372	0	0.40
4	2	Szakal R.A., <b>Muntean S.</b>	...	Energies	14(5)	2021		2.702	5.80
									0.00
									0.00
									0.00
<b>Total</b>									<b>19.60</b>

\* Trebuie sa fim atenti sa nu raportam lucrari ca fiind publicate intr-un jurnal cu IF (de exemplu, din Elsevier) cand, de fapt, ele sunt publicate intr-un jurnal cu un titlu sau aproape identic cu cel din Elsevier, dar care are cu totul alt statut (de exemplu e doar indexat, nu si cotate, deci nu are IF)

\*\* Nu se iau in considerare decat lucrarile in extenso (cu cel putin 6 pagini, prin exceptie putand avea si minim 4 pagini), in niciun caz abstracte, indiferent ca au apar

u asemanator

ut intr-un Book of abstracts, sau intr-un jurnal.

P1.2 **Articole și publicații științifice indexate Web of Science - Thomson Reuters \*, \*\***  
**Autor corespondent/Prim autor** *mai mult de 4 autori inclusiv*

Nr. crt.	Autor corespondent=2; Prim autor=1	Numar autori	Nume autori	Titlul lucrării	Denumire Jurnal/ ISSN	Volum/ Numar	Anul publicării	nr. pagini (de la .. pana la:)	Factor de impact in anul publicării	Punctaj individual
1	2	5	Szakal R.A., Mecea D., Bosioc A.I., Borbath I., <b>Muntean S.</b>	Design and Testing a Magneto-Rheological Brake with Cylindrical Configuration	Proceedings of the Romanian Academy Series A Mathematics, Physics, Technical Sciences, Information Science	22(2)	2021	189-197	1.294	1.79
2	1	5	<b>Muntean S.</b> , Marșavina L., Hedeș A., Anton L.E., Vlaicu I.	In situ investigations and failure analysis of the rainwater pumps installed in a wastewater treatment plant	WasserWirtschaft Extra/0043-0978 Proceedings of the Romanian Academy Series A: Mathematics, Physics, Technical Sciences, Information Sciences/1454-9069	109	2019	46-51	0.078	0.33
3	2	5	Draghici IA., <b>Muntean S.</b> , Bosioc AI., Ginga G., Anton LE.	Unsteady Pressure Field Analysis at Pump Inlet Equipped with a Symmetrical Suction Elbow	WasserWirtschaft/0043-0978	17(3)	2016	237-244	1.294	1.79
4	1	5	<b>Muntean S.</b> , Draghici I., Ginga G., Anton L.E., Baya A.	Hydrodynamic Design of a Storage Pump Impeller using Inverse Method and Experimental Investigation of the Global Performances	WasserWirtschaft/0043-0978	105(1)	2015	28-32	0.078	0.33



5	1	4	<b>Muntean S.</b> , Bosioc A.I., Drăghici I.A, Anton L.E.	Investigation and Analysis of the Flow Field Induced by a Symmetrical Suction Elbow at the Pump Inlet -, Failure analysis of the	Proceedings of the ASME-JSME-KSME 2019, 8th Joint Fluids Engineering Conference AJKFluids2019, July 28-August 1, 2019, San Francisco, CA, USA.	AJKFluid s2019 2019	5066, 1 – 10	0	0.30
6	1	6	<b>Muntean S.</b> , Bosioc A.I., Marşavina L., Gălăţanu S.V., Drăghici I., Anton L.E.,	rainwater axial pumps installed in a wastewater pumping station	IOP Conference Series: Earth and Environmental Science/1755-1315	240(3) 2019	032022	0	0.20
7	1	5	Mos, D. C., <b>Muntean S.</b> , Bosioc A.I., Tanasa C., Susan-Resiga R.	Experimental Investigation of the Unsteady Pressure Field in Decelerated Swirling Flow with 74 degrees Sharp Heel Elbow Investigation of the Plunging Pressure Pulsations in a Swirling Flow with Precessing Vortex Rope in a Straight Diffuser	Journal of Physics Conference Series	813 2017	012046	0	0.24
8	1	4	<b>Muntean S.</b> , Tănasă C., Bosioc A.I., Moş D.C.	Hydrodynamic Analysis of the Flow Field Induced by a Symmetrical Suction Elbow at the Pump Inlet	IOP Conference Series: Earth and Environmental Science/1755-1315	2016	1-10	0	0.30
9	1	4	<b>Muntean S.</b> , Bosioc A.I., Drăghici I., Anton L.E.	LDV measurements of the velocity field on the inlet section of a pumped storage equipped with a symmetrical suction elbow	IOP Conference Series: Earth and Environmental Science/1755-1315	2016	1-10	0	0.30
10	2	4	Draghici I., <b>Muntean S.</b> , Bosioc A. I., Anton L. E.	for variable discharge values	IOP Conference Series: Earth and Environmental Science/1755-1315	22 2014	032017	0	0.30



P1.3 **Articole și publicații științifice indexate Web of Science - Thomson Reuters**  
co-autor **maxim 3 autori**

Nr.crt	Nume autori	Titlul lucrării	Denumire Jurnal/ ISSN	Volum/ Numar	Anul publicării	nr. pagini (de la .. pana la:)	Factor de impact in anul publicării	Numar autori	Punctaj individual
1	Moș D.C., <b>Muntean S.</b> , Anton L.E.	3D numerical flow analysis of the non-uniformity induced by a reshaped geometry of the symmetrical suction elbow	WasserWirtschaft Extra/ 0043-0978	109	2019	86-91	0.078	3	0.28
2	Anton AA., <b>Muntean S.</b> , Susan-Resiga R.	SWIRL2D: An interface tracking algorithm for computing the two-dimensional swirling flows with stagnant region	Proceedings of the Romanian Academy Series A: Mathematics, Physics, Technical Sciences, Information Sciences/1454-9069	17/4	2016	366-373	1.294	3	1.49
3	Susan-Resiga R., Ighisan C., <b>Muntean S.</b>	Mathematical Model for the Swirling Flow Ingested by the Draft Tube of Francis Turbines	WasserWirtschaft/ 0043-0978	105/1	2015	23-27	0.078	3	0.28
4	Bedelean B., <b>Muntean S.</b> , Campean M.	Analysis of Drying Kiln Aerodynamics Based on a Full Three-Dimensional Turbulent Numerical Computation	Drvna Industrija/0012-6772	67/1	2015	53-64	0.663	3	0.86
5	Ciocan T., Susan-Resiga R., <b>Muntean S.</b>	Improving draft tube hydrodynamics over wide operating range	Proceedings of the Romanian Academy Series A: Mathematics, Physics, Technical Sciences, Information Sciences/1454-9069	15/2	2014	182-190	1.294	3	1.49



Total

7.30

P1.4

**Articole și publicații științifice indexate Web of Science - Thomson Reuters**  
co-autor **mai mult de 3 autori**

Nr. crt	Nume autori	Titlul lucrării	Denumire Jurnal/ISSN	Volum/ Numar	Anul publicării	nr. pagini (de la .. pana la:)	Factor de impact in anul publicării	Numar autori	Punctaj individual
1	Kougias I., Aggidis G., Avellan F., Deniz S., Lundin U., Moro A., <b>Muntean S.</b> , Novara D., Pérez-Díaz J.I., Quaranta E., Schild P., Theodossiou N.	Analysis of emerging technologies in the hydropower sector	Renewable and Sustainable Energy Reviews	113(11)	2019	109257	12.11	12	3.08
2	Tănasă C., Bosioc A., <b>Muntean S.</b> , Susan-Resiga R	A novel passive method to control the swirling flow with vortex rope from the conical diffuser of hydraulic turbines with fixed blades	Applied Sciences	9(22)	2019	4910	2.474	4	2.01
3	Javadi A., Bosioc A., Nilsson H., <b>Muntean S.</b> , Susan-Resiga R.	Experimental and Numerical Investigation of the Precessing Helical Vortex in a Conical Diffuser, With Rotor-Stator Interaction	Journal of Fluids Engineering/0098-2202	138(8)	2016	81106	2.056	5	1.35
4	Susan-Resiga R., <b>Muntean S.</b> , Stuparu A., Bosioc A.I., Tanasa C., Ighisan C.	A variational model for swirling flow states with stagnant region	European Journal of Mechanics B-Fluids/0097-7546	55(1)	2016	104-115	2.131	6	1.17
5	Negru R., <b>Muntean S.</b> , Pasca N., Marsavina L.	Failure assessment of the shaft of a pumped storage unit	Fatigue and Fracture of Engineering Materials and Structures/1460-2695	37(7)	2014	807-820	3.031	4	2.42



			Proceedings of the Romanian Academy Series A: Mathematics, Physics, Technical Sciences, Information Sciences/1454-9069	12(2)	2011	125-132	1.294	4	1.12
12	Tanasa C., Bosioc A.I., <b>Muntean S.</b> , Susan-Resiga R.	Flow-feedback control technique for vortex rope mitigation from conical diffuser of hydraulic turbines draft tube							
			Proceedings of the Romanian Academy Series A: Mathematics, Physics, Technical Sciences, Information Sciences/1454-9069	11(3)	2010	245-252	1.294	4	1.12
13	Bosioc A.I., Tanasa C., <b>Muntean S.</b> , Susan-Resiga R.	Pressure recovery improvement in a conical diffuser with swirling flow using water jet injection							
			Journal of Fluids Engineering/0098-2202	132(5)	2010	51102	2.056	5	1.35
14	Susan-Resiga R.F., <b>Muntean S.</b> , Hasmatuchi V., Anton I., Avellan F.	Analysis and prevention of vortex breakdown in the simplified discharge cone of a Francis turbine							
			Proceedings of the Romanian Academy Series A: Mathematics, Physics, Technical Sciences, Information Sciences/1454-9069	8(2)	2007	151-160	1.294	4	1.12
15	Bernad S., Susan-Resiga R., <b>Muntean S.</b> , Anton I.	Cavitation phenomena in hydraulic valves. Numerical modelling							
			Proceedings of the ASME-JSME-KSME 2019, 8th Joint Fluids Engineering Conference AJKFluids2019, July 28-August 1, 2019, San Francisco, CA, USA.	AJKFluids2019	2019	5617, 1 – 10.	0	4	0.15
16	Bosioc A.I., Moş D.C., <b>Muntean S.</b> , Anton L.E.	Analysis of a Centrifugal Pump Equipped With an Axial Rotor with Variable Speed							
			IOP Conference Series: Earth and Environmental Science/1755-1315	240(7)	2019	072004	0	5	0.12
17	Susan-Resiga R.F., Popescu C., Szakal R., <b>Muntean S.</b> , Stuparu A.	A benchmark test case for swirling flows. Design of the swirl apparatus, experimental data and numerical challenges							



18	Bosioc A.I., Moş D.C., Drăghici I., <b>Muntean S.</b> , Anton L.E.	Experimental analysis of a pump equipped with an axial rotor with variable speed	IOP Conference Series: Earth and Environmental Science/1755-1315	240(3)	2019	032021	0	5	0.12
19	Tănasă C., Szakal R., Moş D., Ciocan T., <b>Muntean S.</b>	Experimental and numerical analysis of decelerated swirling flow in the discharge cone of hydraulic turbines using pulsating jet techniques	IOP Conference Series: Earth and Environmental Science/1755-1315	240(2)	2019	022010	0	5	0.12
20	Hedeş A, Svoboda M, Anton L.E, Vitan D., <b>Muntean S.</b>	In situ measurements on the axial pumps motors of a wastewater station	18th IEEE Int. Conf. on Environ. and Electrical Eng. 12-15 June 2018, Palermo, Italy.		2018		0	5	0.12
21	Draghici I., Atanasoaiei C., Bosioc A., <b>Muntean S.</b> , Anton L.E.	Experimental analysis of the global performances for a pump with symmetrical suction elbow at two speeds	Energy Procedia/1876-6102	112	2017	225-231	0	5	0.12
22	Bosioc A.I., <b>Muntean S.</b> , Susan-Resiga R.F., Borbath I., Vekas L.	Numerical Analysis of the Temperature Field in A Magneto-Rheological Brake	AIP Conference Proceedings/0094-243X	1702	2015	080002	0	6	0.10
23	Tanasa C., Susan-Resiga R.F., <b>Muntean S.</b> , Stuparu A., Bosioc A.I., Ciocan T.	Numerical Assessment of a Novel Concept for Mitigating the Unsteady Pressure Pulsations Associated to Decelerating Swirling Flow with Precessing Helical Vortex	AIP Conference Proceedings/0094-243X	1702	2015	080003	0	6	0.10
24	Bosioc A.I., <b>Muntean S.</b> , Tanasa C., Susan-Resiga R.F., Vekas L.	Unsteady pressure measurements of decelerated swirling flow in a discharge cone at lower runner speeds	IOP Conference Series-Earth and Environmental Science/1755-1307	22(3)	2014	032008	0	5	0.12
25	Susan-Resiga R.F., <b>Muntean S.</b> , Ciocan T., de Colombel T., Leroy P.	Surrogate runner model for draft tube losses computation within a wide range of operating points	IOP Conference Series-Earth and Environmental Science/1755-1307	22(1)	2014	012022	0	5	0.12

26	Bosioc A.I., <b>Muntean S.</b> , Susan-Resiga R.F., Vekas L., Bernad S.	Numerical Simulation of the Swirl Generator Discharge Cone at Lower Runner Speeds	AIP Conference Proceedings/0094-243X	1558	2013	204-207	0	6	0.10
27	Susan-Resiga R.F., <b>Muntean S.</b> , Ciocan T., Joubarne E., Leroy P., Bornard L.	Influence of the velocity field at the inlet of a Francis turbine draft tube on performance over an operating range	IOP Conference Series-Earth and Environmental Science/1755-1307	15(3)	2013	032008	0	6	0.10
28	Tanasa C., Bosioc A.I., Susan-Resiga R.F., <b>Muntean S.</b>	Experimental investigations of the swirling flow in the conical diffuser using flow-feedback control technique with additional energy source	IOP Conference Series-Earth and Environmental Science/1755-1307	15(6)	2013	062043	0	5	0.12
29	A multi-purpose vision-equipped-remotely-operable rig for hydro-units monitoring	Advanced Engineering Forum/2234-9898	8-9	2013	175-184	0	4	0.15	
30	Stanciu I.R., Ginga G., <b>Muntean S.</b> , Anton L.E.	Fatigue Behaviour of Stainless Steel used for Turbine Runners	Advanced Engineering Forum/2234-9898	8-9	2013	413-420	0	4	0.15
31	Negru R., Marsavina L., <b>Muntean S.</b> , Pasca N., Baya A., <b>Muntean S.</b> , Campian V.C., Cuzmos A., Diaconescu M., Balan G.,	Experimental investigations of the unsteady flow in a Francis turbine draft tube cone	IOP Conference Series-Earth and Environmental Science/1755-1307	12(1)	2010	012007	0	6	0.10
32	Bosioc A.I., Tanasa C., <b>Muntean S.</b> , Susan-Resiga R.F.	Unsteady pressure measurements and numerical investigation of the jet control method in a conical diffuser with swirling flow	IOP Conference Series-Earth and Environmental Science/1755-1307	12(1)	2010	012007	0	4	0.15
33	Optimization of the hydrofoil cascade and validation with quasi-analytical solution for hydraulic machinery	IOP Conference Series-Earth and Environmental Science/1755-1307	12(1)	2010	012075	0	4	0.15	
34	Frunza T., Susan-Resiga R., <b>Muntean S.</b> , Bernad S., Frunzaverde D., <b>Muntean S.</b> , Marginean G., Campian V., Marsavina L., Terzi R., Serban V.	Failure analysis of a Francis turbine runner	IOP Conference Series-Earth and Environmental Science/1755-1307	12(1)	2010	012115	0	7	0.09

35	Kuibin P.A., Okulov V.L., Susan-Resiga R.F., <b>Muntean S.</b>	Validation of mathematical models for predicting the swirling flow and the vortex rope in a Francis turbine operated at partial discharge	IOP Conference Series-Earth and Environmental Science/1755-1307	12(1)	2010	012051	0	4	0.15
36	Petit O., Bosioc A.I., Nilsson H., <b>Muntean S.</b> , Susan-Resiga R.F.	A swirl generator case study for OpenFOAM	IOP Conference Series-Earth and Environmental Science/1755-1307	12(1)	2010	012056	0	5	0.12
37	Stuparu A., Susan-Resiga R., Anton L.E., <b>Muntean S.</b>	Numerical investigation of the cavitational behaviour into a storage pump at off design operating points	IOP Conference Series-Earth and Environmental Science/1755-1307	12(1)	2010	012068	0	4	0.15
38	Tanasa C., Susan-Resiga R., Bosioc A., <b>Muntean S.</b>	Mitigation of pressure fluctuations in the discharge cone of hydraulic turbines using Flow-Feedback	IOP Conference Series-Earth and Environmental Science/1755-1307	12(1)	2010	012067	0	4	0.15
39	Bistriean D.A., Dragomirescu I.F., <b>Muntean S.</b> , Topor M.	Numerical Methods for Convective Hydrodynamic Stability of Swirling Flows	Mathematics and Computers in Science and Engineering		2009	283-288	0	4	0.15
									0.00
									0.00
<b>Total</b>									<b>29.21</b>

P2.1<4 **Brevete internationale indexate in Web of Science-Derwent Innovation**

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P2.1>4 **Brevete internationale indexate in Web of Science-Derwent Innovation**

Prim autor/autor corespondent

**minim 4 autori**

Nr.crt	Autori	Titlul brevetului/numar	Anul obtinerii brevetului	Numar autori	Punctaj individual
1	<b>Muntean S.</b> , Susan-Resiga R., Bosioc I.A., Constantin R.-S., Maxim D.-I., Tănasă C., Vékás L., Borbáth I., Anton L.E.	Equipment for controlling instabilities of swirling flow from the conical diffuser of hydraulic turbines, Patent Number RO131408-A0. (Derwent Primary Accession Number: 2017-00484G)	2019	9	1.47 0.00 0.00 0.00
<b>Total</b>					<b>1.47</b>

P2.2<4 **Brevete indexate OSIM**  
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	<b>Total</b>				<b>0.00</b>

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<b>Total</b>					<b>0.00</b>

P2.2.1<4 Brevete internationale indexate in Web of Science-Derwent Innovation

Co-autor

*maxim 3 autori*

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	<b>Total</b>				<b>0.00</b>



P2.2.1>4 **Brevete internationale indexate in Web of Science-Derwent Innovation**

Co-autor

*minim 4 autori inclusiv*

Nr.crt	Autori	Titlul brevetului	Anul aparitiei	Numar autori	Punctaj individual
1	Susan-Resiga R., Tanasa C., Bosioc A.I., Ciocan T., Stuparu A., <b>Muntean S.</b>	Method and Equipment for Controlling the Swirling Flow through the Conical Diffuser of Hydraulic Turbines RO130075-A0 RO130075-A8 (Derwent Primary Accession Number: 2015-23118S)	2017	6	0.35
2	Susan-Resiga R., <b>Muntean S.</b> , Tanasa C., Bosioc A.I., Ciocan T., Popescu C.	Equipment for Controlling Instabilities of Swirl Flow from the Conical Diffuser of Hydraulic Turbines RO131408-A0 (Derwent Primary Accession Number: 2016-61594H)	2018	6	0.35
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P2.2.2<4

**Brevete indexate OSIM; co-autor;**

maxim 3 autori

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<b>Total</b>					<b>0.00</b>

**P2.2.2>4 Brevete indexate OSIM; co-autor;  
minim 4 autori**

Nr.crt	Autori	Titlul brevetului	Anul aparitiei	Numar autori	Punctaj individual
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					0.00
					0.00
<b>Total</b>					<b>0.00</b>

**Produse, tehnologii, platforme și servicii inovative (validate conform procedurilor specifice unităților de învățământ superior sau de cercetare)**

N4.1-2

Nr.crt	Denumire produs	anul validării/mod validare (procedura)	Numar contributori	Calitatea:1 - coordonator; 2 membru in echipa	Punctaj individual
	Solutie tehnica cu nou tip de softstarter care 1 asigura procedura de autospalare a pompei	2018/in situ (experimentală) fisa nr. 100/604-4667	13	2	1.00 0.00 0.00 0.00 0.00
<b>Total</b>					<b>1.00</b>

N4.3 **Monografii/cărți de specialitate, format tipărit/electronic (min. 100 pag.)**

**prim autor**

Nr.crt	Autori	Titlul	Editura	Anul editarii	ISBN	Nr. Pagini	Punctaj individual
1	Susan-Resiga R., Bernad S., <b>Muntean S.</b> (Editori)	Vortex Dominated Flows	Editura Eurostampa	2007	978-973-687-659-2	497	1.00
2	Susan-Resiga R., <b>Muntean S.</b> , Bernad S., (Editori)	Proceedings of the 25th IAHR Symposium on Hydraulic Machinery and Systems, Timisoara, 20-24 Sept. 2010	Institute of Physics. Conference Series Earth and Environment Science	2010	ISSN 1775-1315 ( <a href="http://iopscience.iop.org/1755-1315/12/">http://iopscience.iop.org/1755-1315/12/</a> ) Issue 6, Tom 52(66), ISSN 1224-6077 ( <a href="http://mh.mec.upt.ro/iahrwg2007/">http://mh.mec.upt.ro/iahrwg2007/</a> )	800	1.00
3	Susan-Resiga R., Bernad S., <b>Muntean S.</b> (Editori)	Proceedings of the 2nd IAHR International Meeting of the Workgroup on Cavitation and Dynamic Problems in Hydraulic Machinery and Systems, Timisoara, 24-26 Oct. 2007	Scientific Bulletin of the "Politehnica" University of Timisoara, Transactions on Mechanics	2007	ISBN 978-973-638-329-8	244	1.00
4	<b>Muntean S.</b> , Ruprecht A. (Editori)	Proceedings of the 3rd Romanian-German Workshop on Turbomachinery Hydrodynamics	Universitare Publishing House	2007		160	1.00

5	Bernad S., <b>Muntean S.</b> , Susan-Resiga R. (Editori)	Proceedings of the 3rd Workshop on Vortex Dominated Flows. Achievements and Open Problems	Scientific Bulletin of the "Politehnica" University of Timisoara, Transactions on Mechanics	2007	Issue 3, Tom 52(66), ISSN 1224-6077 ( <a href="http://mh.mec.upt.ro/accord-fluid/workshop2007/">http://mh.mec.upt.ro/accord-fluid/workshop2007/</a> ) Special Issue, ISSN 1224-6077	158	1.00
6	Bernad S., <b>Muntean S.</b> , Susan-Resiga R. (Editors)	Proceedings of the 2nd Workshop on Vortex Dominated Flows Achievements and Open Problems	Scientific Bulletin of the "Politehnica" University of Timisoara, Romania, Transactions on Mechanics	2006	( <a href="http://mh.mec.upt.ro/accord-fluid/workshop2006/">http://mh.mec.upt.ro/accord-fluid/workshop2006/</a> ) Special Issue, ISSN 1224-6077	196	1.00
7	Bernad S., <b>Muntean S.</b> , Susan-Resiga R. (Editori)	Proceedings of the Workshop on Vortex Dominated Flows Achievements and Open Problems	Scientific Bulletin of the "Politehnica" University of Timisoara, Romania, Transactions on Mechanics	2005	( <a href="http://mh.mec.upt.ro/accord-fluid/workshop2005/">http://mh.mec.upt.ro/accord-fluid/workshop2005/</a> )	214	1.00

					Tom 49(63), Special IssueISSN 1224- 6077 (http://mh .mec.upt.r o/hmh200 4/)			
			Scientific Bulletin of the 'Politehnica' University of Timisoara, Romania, Transactions on Mechanics	2004		740	1.00	
8	Susan-Resiga R., Bernad S., <b>Muntean S.</b> , Popoviciu M. (Editori)	Proceedings of the 6th International Conference on Hydraulic Machinery and Hydrodynamics	Proceedings of Workshop on Numerical Orizonturi					
9	Anton I., Resiga R., Sofonea S., Bernad S., <b>Muntean S.</b> , (Editori)	Methods in Fluid Mechanics and FLUENT Applications	Universitare Publishing House	2003	ISBN 973- 638-022-X,	312	1.00	
							0.00	
							0.00	
							0.00	
							0.00	
							9.00	
<b>Total</b>								

N4.4 **Monografii/cărți de specialitate, format tipărit/electronic (min. 100 pag.)**

**co - autor**

Nr.crt	Autori	Titlul	Editura	Anul editarii	ISBN	Nr. Pagini	Punctaj individual
1	Susan-Resiga R., <b>Muntean S.</b> , Bernad S., Balint D., Balint I.	Metode Moderne de Calcul Paralel pentru Simularea Curgerii Fluidelor (262 p.)	Editura Orizonturi Universitare, Timișoara Editura Academiei Române, Bucuresti	2003	978-973-638-064-5	262	1.00
2	L. Banabic D., Atanasiu C., Ceaușu V., <b>Muntean S.</b> , Pascovici M., Popescu I., Vaida L., Vékás	ISTORIA TEHNICII ȘI A INDUSTRIEI ROMÂNENEȘTI Vol. 1 MECANICA, TEHNICILE DE PRELUCRARE ȘI CONSTRUCȚIILE, Banabic D. (coord.)	( <a href="https://academiaronana.ro/sectii/sectia08_tehnica/doc2020/IstoriaTehnicii/24IstoriaTehnicii-Vol1.pdf">https://academiaronana.ro/sectii/sectia08_tehnica/doc2020/IstoriaTehnicii/24IstoriaTehnicii-Vol1.pdf</a> )	2019	978-973-27-3054-6	68	1.00
							0.00
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							0.00
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							0.00
<b>Total</b>							<b>2.00</b>



N5 **Prezentarea/Diseminarea rezultatelor: prezență la manifestări științifice în calitate de autor/co-autor de lucrări, profesor invitat**

Nr. Crt.	Tipul activitatii: conferinta/congres=1; workshop international=2; profesor invitat=3	Denumire Congress, workshop/Institutie unde a fost invitat	Anul /perioada (pt. prof. invitat)	Titlul lucrarii sustinute in calitate de autor sau co- autor/ Prelegeri expuse pt profesor invitat	link email/alte modalitati de justificare a activitatii	Punctaj realizat
1		21st IAHR Symposium on Hydraulic Machinery and Systems, September 2002, Lausanne, Switzerland	2002	3D Flow Analysis of the GAMM Francis Turbine for Variable Discharge (autor)	<a href="https://www.iahr.org/index/commite/4">https://www.iahr.org/index/commite/4</a>	1.00
2		21st IAHR Symposium on Hydraulic Machinery and Systems, September 2002, Lausanne, Switzerland	2002	Numerical Analysis of Cavitation Inception in Francis Turbines (co-autor)	<a href="https://www.iahr.org/index/commite/4">https://www.iahr.org/index/commite/4</a>	1.00
3		Southeastern Europe FLUENT Users Group Meeting, Thessaloniki, Greece	2002	Least Squares Piecewise Polynomial Mixing Interface Algorithm and Applications for Francis Hydraulic Turbines (autor)		1.00
4		Southeastern Europe FLUENT Users Group Meeting, Thessaloniki, Greece	2002	Numerical Simulation of the Mold Filling Process for Titanium Dental Casting Applications (co-autor)	<a href="http://www.cmff.hu/">http://www.cmff.hu/</a>	1.00
5		Conference on Modelling Fluid Flow [CMFF'03], Sept. 2003, Budapest, Hungary	2003	Mixing interface algorithm for 3D turbulent flow analysis of the GAMM Francis turbine (autor)	<a href="http://www.cmff.hu/">http://www.cmff.hu/</a>	1.00
6		Numerical investigation of 3D cavitating flow in Francis turbines (co-autor)	2003		<a href="http://www.cmff.hu/">hu/</a>	1.00
7		22nd IAHR Symposium on Hydraulic Machinery and Systems, June 29 – July 2, 2004, Stockholm, Sweden	2003	3D Turbulent Flow Analysis of the GAMM Francis Turbine for Variable Discharge (autor)	<a href="https://www.iahr.org/index/commite/4">https://www.iahr.org/index/commite/4</a>	1.00
8		22nd IAHR Symposium on Hydraulic Machinery and Systems, June 29 – July 2, 2004, Stockholm, Sweden	2004	Numerical investigation of 3D cavitating flow in Francis turbines. Proceedings of the Conference on Modelling Fluid Flow (co-autor)	<a href="https://www.iahr.org/index/commite/4">https://www.iahr.org/index/commite/4</a>	1.00
9		22nd IAHR Symposium on Hydraulic Machinery and Systems, June 29 – July 2, 2004, Stockholm, Sweden	2004	3D Flow Analysis in the Spiral Case and Distributor of a Kaplan Turbine (autor)	<a href="https://www.iahr.org/index/commite/4">https://www.iahr.org/index/commite/4</a>	1.00

10	1 [CMFF06], Sep. 2006, Budapest, Hungary Conference on Modelling Fluid Flows	2006 (autor) Numerical Investigation and Analysis of Swirling Flow Upstream of Kaplan Runner for Variable Discharge Numerical Simulation and Analysis of the Decelerated	<a href="http://www.cmff.hu/">http://www.cmff.hu/</a> <a href="http://www.cmff.hu/">http://www.cmff.hu/</a>	1.00
11	1 [CMFF06], Sep. 2006, Budapest, Hungary Conference on Modelling Fluid Flows	2006 Swirling Flows in Hydraulic Turbines (co-autor) Numerical Study of the Cavitation Phenomenon in	<a href="http://www.cmff.hu/">hu/</a> <a href="http://www.cmff.hu/">http://www.cmff.hu/</a>	1.00
12	1 [CMFF06], Sep. 2006, Budapest, Hungary 23rd IAHR Symposium on Hydraulic Machinery and Systems, October 17-21	2006 Hydraulic Turbines (co-autor) Analytical Representation of the Swirling Flow Upstream the Kaplan Turbine Runner for Variable	<a href="http://www.cmff.hu/">hu/</a> <a href="https://www.iahr.org/index/commission4">https://www.iahr.org/index/commission4</a>	1.00
13	1 2006, Yokohama, Japan 23rd IAHR Symposium on Hydraulic Machinery and Systems, October 17-21	2006 Guide Vane Opening (autor) Evaluation of the Kaplan Turbine Discharge using	<a href="https://www.iahr.org/index/commission4">tte/4</a> <a href="https://www.iahr.org/index/commission4">https://www.iahr.org/index/commission4</a>	1.00
14	1 2006, Yokohama, Japonia 23rd IAHR Symposium on Hydraulic Machinery and Systems, October 17-21	2006 Numerical Simulation (autor) Numerical Analysis of the Cavitating Flow Around a	<a href="https://www.iahr.org/index/commission4">tte/4</a> <a href="https://www.iahr.org/index/commission4">https://www.iahr.org/index/commission4</a>	1.00
15	1 2006, Yokohama, Japonia 23rd IAHR Symposium on Hydraulic Machinery and Systems, October 17-21	2006 Hydrofoil (co-autor) Numerical Simulation and Analysis of the Two-Phase	<a href="https://www.iahr.org/index/commission4">tte/4</a> <a href="https://www.iahr.org/index/commission4">https://www.iahr.org/index/commission4</a>	1.00
16	1 2006, Yokohama, Japonia 23rd IAHR Symposium on Hydraulic Machinery and Systems, October 17-21	2006 Cavitating Flow in Kaplan Turbines (co-autor) Jet Control of the Draft Tube Vortex Rope in Francis	<a href="https://www.iahr.org/index/commission4">tte/4</a> <a href="https://www.iahr.org/index/commission4">https://www.iahr.org/index/commission4</a>	1.00
17	1 2006, Yokohama, Japonia 23rd IAHR Symposium on Hydraulic Machinery and Systems, October 17-21	2006 Turbines at Partial Discharge (co-autor) Numerical Simulation and Analysis of Swirling Flow in	<a href="https://www.iahr.org/index/commission4">tte/4</a> <a href="https://www.iahr.org/index/commission4">https://www.iahr.org/index/commission4</a>	1.00
18	1 2006, Yokohama, Japonia 2nd German – Romanian Workshop on Vortex Dynamics, May 10-14 2006,	2006 the Draft Tube Cone of a Francis Turbine (co-autor) 2D Axi-symmetric and 3D Swirling Flow Analysis in	<a href="https://www.iahr.org/index/commission4">tte/4</a>	1.00
19	2 Stuttgart, Germany 24th IAHR Symposium on Hydraulic Machinery and Systems, 27-31 Octombrie	2006 Kaplan Turbines (autor) Mitigation of Pressure Fluctuations in a Conical Diffuser with Precessing Vortex Rope Using Axial Jet	<a href="https://www.iahr.org/index/commission4">https://www.iahr.org/index/commission4</a>	1.00
20	1 2008, Foz do Iguassu, Brazilia.	2008 Control Method (autor)	<a href="https://www.iahr.org/index/commission4">tte/4</a>	1.00

21	24th IAHR Symposium on Hydraulic Machinery and Systems, 27-31 Octombrie 1 2008, Foz do Iguassu, Brazilia.	2008 (co-autor)	<a href="https://www.iahr.org/index/commite/4">https://www.iahr.org/index/commite/4</a>	1.00
22	4th Romanian-German Workshop on Turbomachinery Hydrodynamics, June 12-15, Stuttgart, Germany, 2008.	2008	Pressure Measurements in a Conical Diffuser with Swirling Flow and Axial Jet Control (autor)	1.00
23	Conference on Modelling Fluid Flow (CMFF'09), September 9-12, Budapest, Hungary	2009	3D Numerical Analysis of Unsteady Pressure Fluctuations in a Swirling Flow without and with Axial Water Jet Control (autor)	1.00
24	Conference on Modelling Fluid Flow (CMFF'09), September 9-12, Budapest, Hungary	2009	Three-Dimensional versus Two-Dimensional Axisymmetric Analysis for Decelerated Swirling Flows (co-autor)	1.00
25	Conference on Modelling Fluid Flow (CMFF'09), September 9-12, Budapest, Hungary	2009	Validation of the 2D numerical investigation methodology of the turbulent flow into an inducer with the 3D computation (co-autor)	1.00
26	Conference on Modelling Fluid Flow (CMFF'09), September 9-12, Budapest, Hungary	2009	3D Numerical Flow Analysis into a Double Stage and Double Flux Storage Pump (co-autor)	1.00
27	Conference on Modelling Fluid Flow (CMFF'09), September 9-12, Budapest, Hungary	2009	2D LDV Measurements of Swirling Flow in a Simplified Draft Tube (co-autor)	1.00
28	3rd IAHR International Meeting of the Workgroup on Cavitation and Dynamic Problems in Hydraulic Machinery and Systems, October 14-16, 2009, Brno, Czech Republic	2009	3D Numerical Analysis of the Unsteady Turbulent Swirling Flow in a Conical Diffuser using FLUENT and OpenFOAM (autor)	1.00
29	3rd IAHR International Meeting of the Workgroup on Cavitation and Dynamic Problems in Hydraulic Machinery and Systems, October 14-16, 2009, Brno, Czech Republic	2009	Numerical Investigation of the Jet Control Method for Swirling Flow with Precessing Vortex Rope (autor)	1.00

30	2 Republic 3rd IAHR International Meeting of the Workgroup on Cavitation and Dynamic Problems in Hydraulic Machinery and Systems, October 14-16, 2009, Brno, Czech Republic	Numerical investigation of the cavitation behaviour of a storage pump operating at best efficiency point 2009 (co-autor)	<a href="https://www.iahr.org/index/commitee/4">https://www.iahr.org/index/commitee/4</a> <a href="https://www.iahr.org/index/commitee/4">https://www.iahr.org/index/commitee/4</a>	1.00
31	2 Republic 3rd IAHR International Meeting of the Workgroup on Cavitation and Dynamic Problems in Hydraulic Machinery and Systems, October 14-16, 2009, Brno, Czech Republic	The stability of the swirling flows with applications to hydraulic turbines (co-autor) 2009	<a href="https://www.iahr.org/index/commitee/4">https://www.iahr.org/index/commitee/4</a> <a href="https://www.iahr.org/index/commitee/4">https://www.iahr.org/index/commitee/4</a>	1.00
32	2 Republic 25th IAHR Symposium on Hydraulic Machinery and Systems, Timisoara, Romania	2D LDV Measurements and Comparison with Axisymmetric Flow Analysis of Swirling Flow in a Simplified Draft Tube (co-autor) 2009	<a href="https://iopsciencet.org/index/commitee/4">https://iopsciencet.org/index/commitee/4</a> <a href="https://iopsciencet.org/index/commitee/4">https://iopsciencet.org/index/commitee/4</a>	1.00
33	1 Machinery and Systems, Timisoara, Romania 25th IAHR Symposium on Hydraulic Machinery and Systems, Timisoara, Romania	Experimental investigations of the unsteady flow in a Francis turbine draft tube cone (co-autor) 2010	<a href="https://iopsciencet.org/index/commitee/4">https://iopsciencet.org/index/commitee/4</a> <a href="https://iopsciencet.org/index/commitee/4">https://iopsciencet.org/index/commitee/4</a>	1.00
34	1 Machinery and Systems, Timisoara, Romania 25th IAHR Symposium on Hydraulic Machinery and Systems, Timisoara, Romania	Unsteady pressure measurements and numerical investigation of the jet control method in a conical diffuser with swirling flow (co-autor) 2010	<a href="https://iopsciencet.org/index/commitee/4">https://iopsciencet.org/index/commitee/4</a> <a href="https://iopsciencet.org/index/commitee/4">https://iopsciencet.org/index/commitee/4</a>	1.00
35	1 Machinery and Systems, Timisoara, Romania 25th IAHR Symposium on Hydraulic Machinery and Systems, Timisoara, Romania	Analysis of the flow field into a two stages and double entry storage pump taking into account two geometries of stator blades (co-autor) 2010	<a href="https://iopsciencet.org/index/commitee/4">https://iopsciencet.org/index/commitee/4</a> <a href="https://iopsciencet.org/index/commitee/4">https://iopsciencet.org/index/commitee/4</a>	1.00
36	1 Machinery and Systems, Timisoara, Romania 25th IAHR Symposium on Hydraulic Machinery and Systems, Timisoara, Romania	Optimization of the hydrofoil cascade and validation with quasi-analytical solution for hydraulic machinery (co-autor) 2010	<a href="https://iopsciencet.org/index/commitee/4">https://iopsciencet.org/index/commitee/4</a> <a href="https://iopsciencet.org/index/commitee/4">https://iopsciencet.org/index/commitee/4</a>	1.00
37	1 Machinery and Systems, Timisoara, Romania	Failure analysis of a Francis turbine runner (co-autor) 2010	<a href="https://iopsciencet.org/index/commitee/4">https://iopsciencet.org/index/commitee/4</a> <a href="https://iopsciencet.org/index/commitee/4">https://iopsciencet.org/index/commitee/4</a>	1.00

		25th IAHR Symposium on Hydraulic		<a href="https://iopscienc">https://iopscienc</a>	
38	1	Machinery and Systems, Timisoara, Romania 25th IAHR Symposium on Hydraulic	2010	Validation of mathematical models for predicting the swirling flow and the vortex rope in a Francis turbine operated at partial discharge (co-autor) <a href="https://iopscienc">https://iopscienc</a> <a href="https://www.iahr">https://www.iahr</a>	1.00
39	1	Machinery and Systems, Timisoara, Romania 25th IAHR Symposium on Hydraulic	2010	A swirl generator case study for OpenFOAM (co-autor) <a href="https://iopscienc">https://iopscienc</a> <a href="https://www.iahr">https://www.iahr</a>	1.00
40	1	Machinery and Systems, Timisoara, Romania 25th IAHR Symposium on Hydraulic	2010	Numerical investigation of the cavitation behaviour into a storage pump at off design operating points (co-autor) <a href="https://iopscienc">https://iopscienc</a> <a href="https://www.iahr">https://www.iahr</a>	1.00
41	1	Machinery and Systems, Timisoara, Romania 4th IAHR International Meeting of the Workgroup on Cavitation and Dynamic Problems in Hydraulic Machinery and	2010	Mitigation of pressure fluctuations in the discharge cone of hydraulic turbines using Flow-Feedback (co-autor) <a href="https://www.iahr">https://www.iahr</a> <a href="https://www.iahr">https://www.iahr</a>	1.00
42	2	Systems, October 26-28, Belgrade, Serbia 4th IAHR International Meeting of the Workgroup on Cavitation and Dynamic Problems in Hydraulic Machinery and	2011	3D Numerical Analysis of a Swirling Flow Generator (autor) <a href="https://www.iahr">https://www.iahr</a> <a href="https://www.iahr">https://www.iahr</a>	1.00
43	2	Systems, October 26-28, Belgrade, Serbia 4th IAHR International Meeting of the Workgroup on Cavitation and Dynamic Problems in Hydraulic Machinery and	2011	LDV Experimental Measurements of Swirling Flow using Flow-Feedback Jet Injection Method (co-autor) <a href="https://www.iahr">https://www.iahr</a> <a href="https://www.iahr">https://www.iahr</a>	1.00
44	2	Systems, October 26-28, Belgrade, Serbia 4th IAHR International Meeting of the Workgroup on Cavitation and Dynamic Problems in Hydraulic Machinery and	2011	Experimental analysis of unsteady velocity in decelerated swirling flows (co-autor) <a href="https://www.iahr">https://www.iahr</a> <a href="https://www.iahr">https://www.iahr</a>	1.00
45	2	Systems, October 26-28, Belgrade, Serbia	2011	Inverse Design of a Pump Inducer and Performance Evaluation with 3D Flow Simulation (co-autor) <a href="https://www.iahr">https://www.iahr</a> <a href="https://www.iahr">https://www.iahr</a>	1.00

	4th IAHR International Meeting of the Workgroup on Cavitation and Dynamic Problems in Hydraulic Machinery and		<a href="https://www.iahr.org/index/commi">https://www.iahr.org/index/commi</a>	
46	2 Systems, October 26-28, Belgrade, Serbia 26th IAHR Symposium on Hydraulic	2011 3D Numerical Simulation of the Flow into the Suction Elbow and Impeller of a Storage Pump (co-autor)	<a href="https://www.iahr.org/index/commi">https://www.iahr.org/index/commi</a> <a href="https://iopscience.tte/4">https://iopscience.tte/4</a>	1.00
47	1 Machinery and Systems, Beijing, China 26th IAHR Symposium on Hydraulic	2012 Mathematical, numerical and experimental analysis of the swirling flow at a Kaplan runner outlet (autor)	<a href="https://iopscience.tte/4">https://iopscience.tte/4</a> <a href="https://www.iahr.org/index/commi">https://www.iahr.org/index/commi</a> <a href="https://iopscience.tte/4">https://iopscience.tte/4</a> <a href="https://iopscience.tte/4">https://iopscience.tte/4</a>	1.00
48	1 Machinery and Systems, Beijing, China 26th IAHR Symposium on Hydraulic	2012 Influence of the velocity field at the inlet of a Francis turbine draft tube on performance over an operating range (co-autor)	<a href="https://iopscience.tte/4">https://iopscience.tte/4</a> <a href="https://iopscience.tte/4">https://iopscience.tte/4</a> <a href="https://iopscience.tte/4">https://iopscience.tte/4</a> <a href="https://iopscience.tte/4">https://iopscience.tte/4</a>	1.00
49	1 Machinery and Systems, Beijing, China 5th IAHR International Workshop on Cavitation and Dynamic Problems in Hydraulic Machinery (IAHRWG2013),	2012 Experimental investigations of the swirling flow in the conical diffuser using flow-feedback control technique with additional energy source (co-autor)	<a href="https://iopscience.tte/4">https://iopscience.tte/4</a> <a href="https://iopscience.tte/4">https://iopscience.tte/4</a> <a href="https://iopscience.tte/4">https://iopscience.tte/4</a> <a href="https://www.iahr.org/index/commi">https://www.iahr.org/index/commi</a>	1.00
50	2 September 8-11, Lausanne, Switzerland. 5th IAHR International Workshop on Cavitation and Dynamic Problems in Hydraulic Machinery (IAHRWG2013),	2013 Swirling flow analysis downstream the runner of the swirl generator at lower speeds (co-autor)	<a href="https://www.iahr.org/index/commi">https://www.iahr.org/index/commi</a> <a href="https://www.iahr.org/index/commi">https://www.iahr.org/index/commi</a> <a href="https://www.iahr.org/index/commi">https://www.iahr.org/index/commi</a> <a href="https://www.iahr.org/index/commi">https://www.iahr.org/index/commi</a>	1.00
51	2 September 8-11, Lausanne, Switzerland. 27th IAHR Symposium on Hydraulic	2013 Swirling flow with stagnat region and vortex sheet. A novel variational approach (co-autor)	<a href="https://www.iahr.org/index/commi">https://www.iahr.org/index/commi</a> <a href="https://www.iahr.org/index/commi">https://www.iahr.org/index/commi</a> <a href="https://www.iahr.org/index/commi">https://www.iahr.org/index/commi</a> <a href="https://www.iahr.org/index/commi">https://www.iahr.org/index/commi</a>	1.00
52	1 Machinery and Systems, Montreal, Canada 27th IAHR Symposium on Hydraulic	2014 Unsteady pressure measurements of decelerated swirling flow in a discharge cone at lower runner speeds (co-autor)	<a href="https://www.iahr.org/index/commi">https://www.iahr.org/index/commi</a> <a href="https://www.iahr.org/index/commi">https://www.iahr.org/index/commi</a> <a href="https://www.iahr.org/index/commi">https://www.iahr.org/index/commi</a> <a href="https://www.iahr.org/index/commi">https://www.iahr.org/index/commi</a>	1.00
53	1 Machinery and Systems, Montreal, Canada 27th IAHR Symposium on Hydraulic	2014 Velocity and pressure fluctuations induced by the precessing helical vortex in a conical diffuser (co- autor)	<a href="https://www.iahr.org/index/commi">https://www.iahr.org/index/commi</a> <a href="https://www.iahr.org/index/commi">https://www.iahr.org/index/commi</a> <a href="https://www.iahr.org/index/commi">https://www.iahr.org/index/commi</a> <a href="https://www.iahr.org/index/commi">https://www.iahr.org/index/commi</a>	1.00
54	1 Machinery and Systems, Montreal, Canada	2014 A model for precessing helical vortex in the turbine discharge cone (co-autor)	<a href="https://www.iahr.org/index/commi">https://www.iahr.org/index/commi</a> <a href="https://www.iahr.org/index/commi">https://www.iahr.org/index/commi</a> <a href="https://www.iahr.org/index/commi">https://www.iahr.org/index/commi</a> <a href="https://www.iahr.org/index/commi">https://www.iahr.org/index/commi</a>	1.00

55	27th IAHR Symposium on Hydraulic Machinery and Systems, Montreal, Canada Symposium on HydroPower Plants, 26-28	2014	Surrogate runner model for draft tube losses computation within a wide range of operating points (co-autor)	<a href="https://iopscience.iop.org/volume/1755-1315/22">https://iopscience.iop.org/volume/1755-1315/22</a>	1.00
56	1 Nov. 2014, Vienna, Austria. Symposium on HydroPower Plants, 26-28	2014	Hydrodynamic design of a storage pump impeller using inverse design method and experimental investigation of the global performances (autor)	<a href="http://archiv.vienahydro.com/2014/scientific-program/confere-nce-program/">http://archiv.vienahydro.com/2014/scientific-program/confere-nce-program/</a>	1.00
57	1 Nov. 2014, Vienna, Austria. 6th IAHR International Meeting of the Workgroup on Cavitation and Dynamic Problems in Hydraulic Machinery and Systems (IAHRWG2015), 9-11 Septembrie, Ljubliana, Slovenia.	2014	Mathematical Model for the Swirling Flow Ingested by the Draft Tube of Francis Turbines (co-autor)	<a href="http://archiv.vienahydro.com/2014/scientific-program/confere-nce-program/">http://archiv.vienahydro.com/2014/scientific-program/confere-nce-program/</a> <a href="https://www.iahr.org/index/commi">https://www.iahr.org/index/commi</a>	1.00
58	2 Ljubliana, Slovenia. 6th IAHR International Meeting of the Workgroup on Cavitation and Dynamic Problems in Hydraulic Machinery and Systems (IAHRWG2015), 9-11 Septembrie, Ljubliana, Slovenia.	2015	Numerical Analysis of the Flow Non-uniformity Generated by Symmetrical Suction Elbow of the Large Storage Pumps (autor)	<a href="https://www.iahr.org/index/commi">https://www.iahr.org/index/commi</a> <a href="https://www.iahr.tte/4">https://www.iahr.tte/4</a>	1.00
59	2 Ljubliana, Slovenia. 6th IAHR International Meeting of the Workgroup on Cavitation and Dynamic Problems in Hydraulic Machinery and Systems (IAHRWG2015), 9-11 Septembrie, Ljubliana, Slovenia.	2015	On the Hub-to-Shroud Ratio of an Axial Expansion Turbine for Energy Recovery (co-autor)	<a href="https://www.iahr.tte/4">https://www.iahr.tte/4</a>	1.00
60	2 Ljubliana, Slovenia. 28th IAHR Symposium on Hydraulic Machinery and Systems, 4-8 July 2016,	2015	Experimental and Numerical Assessment of the Velocity Profiles using a Passive Method for Swirling Flow Control (co-autor)	<a href="https://www.iahr.org/index/commi">https://www.iahr.org/index/commi</a> <a href="https://www.iahr.tte/4">https://www.iahr.tte/4</a>	1.00
61	1 Grenoble, France. 28th IAHR Symposium on Hydraulic Machinery and Systems, 4-8 July 2016,	2016	Investigation of the Plunging Pressure Pulsations in a Swirling Flow with Precessing Vortex Rope in a Straight Diffuser (autor)	<a href="https://iopscience.iop.org/volume/1755-1315/49">https://iopscience.iop.org/volume/1755-1315/49</a>	1.00
62	1 Grenoble, France	2016	Hydrodynamic Analysis of the Flow Field Induced by a Symmetrical Suction Elbow at the Pump Inlet (autor)	<a href="https://iopscience.iop.org/volume/1755-1315/49">https://iopscience.iop.org/volume/1755-1315/49</a>	1.00

	28th IAHR Symposium on Hydraulic Machinery and Systems, 4-8 July 2016,	3D Numerical Simulation versus Experimental Assessment of Pressure Pulsations Using a Passive Method for Swirling Flow Control in Conical Diffusers	<a href="https://iopscience.iop.org/volume/1755-1315/49">https://iopscience.iop.org/volume/1755-1315/49</a>	
63	1 Grenoble, France 28th IAHR Symposium on Hydraulic Machinery and Systems, 4-8 July 2016,	2016 of Hydraulic Turbines (co-autor) Hydrodynamic Analysis of the Flow in an Axial Rotor	<a href="https://iopscience.iop.org/volume/1755-1315/49">https://iopscience.iop.org/volume/1755-1315/49</a>	1.00
64	1 Grenoble, France 28th IAHR Symposium on Hydraulic Machinery and Systems, 4-8 July 2016,	2016 and Impeller for Large Storage Pump (co-autor) Swirling Flow Computation at the Trailing Edge of	<a href="https://iopscience.iop.org/volume/1755-1315/49">https://iopscience.iop.org/volume/1755-1315/49</a>	1.00
65	1 Grenoble, France 1st International Conference on Materials Design and Applications (MDA2016),Porto,	2016 Radial-Axial Hydraulic Turbines (co-autor) Hydrodynamic investigations in a swirl generator	<a href="https://paginas.fe.up.pt/~mda2016/documentos/MDA2016%20Program.pdf">https://paginas.fe.up.pt/~mda2016/documentos/MDA2016%20Program.pdf</a>	1.00
66	1 Portugal 1st International Conference on Materials Design and Applications (MDA2016),Porto,	2016 using a magneto-rheological brake (autor) Experimental Investigations of MR Fluids in Air and Water Used for Brakes and Clutches (co-	<a href="https://paginas.fe.up.pt/~mda2016/documentos/MDA2016%20Program.pdf">https://paginas.fe.up.pt/~mda2016/documentos/MDA2016%20Program.pdf</a>	1.00
67	1 Portugal 19th International Conference on Hydropower Plants, 9 - 11 November 2016,	2016 autor) The Plunging Components With Low Frequencies In Swirling Flows Through A Straight Diffuser With And	<a href="https://www.vienahydro.com/wp-content/uploads/Tagungsprogramm_ISHPP2016_gesamt.pdf">https://www.vienahydro.com/wp-content/uploads/Tagungsprogramm_ISHPP2016_gesamt.pdf</a>	1.00
68	1 Vienna, Austria 19th International Conference on Hydropower Plants, 9 - 11 November 2016,	2016 Without A 90° Heel Elbow (autor) Splitter band influence on the draft tube flow within a	<a href="https://www.vienahydro.com/wp-content/uploads/Tagungsprogramm_ISHPP2016_gesamt.pdf">https://www.vienahydro.com/wp-content/uploads/Tagungsprogramm_ISHPP2016_gesamt.pdf</a>	1.00
69	1 Vienna, Austria 19th International Conference on Hydropower Plants, 9 - 11 November 2016,	2016 range of turbine discharge (co-autor) Numerical Assessment of the Flow Field Induced by	<a href="https://www.vienahydro.com/wp-content/uploads/Tagungsprogramm_ISHPP2016_gesamt.pdf">https://www.vienahydro.com/wp-content/uploads/Tagungsprogramm_ISHPP2016_gesamt.pdf</a>	1.00
70	1 Vienna, Austria	2016 (co-autor) an Axial Rotor with Variable Speed in a Pump Impeller	<a href="https://www.vienahydro.com/wp-content/uploads/Tagungsprogramm_ISHPP2016_gesamt.pdf">https://www.vienahydro.com/wp-content/uploads/Tagungsprogramm_ISHPP2016_gesamt.pdf</a>	1.00



	19th International Conference on Hydropower Plants, 9 - 11 November 2016,	Numerical Assessment of Decelerated Swirling Flow with Vortex Rope from Conical Diffuser Using	<a href="https://www.vienahydro.com/wp-content/uploads/Tagungsprogramm_ISHPP2016_gesamt.pdf">https://www.vienahydro.com/wp-content/uploads/Tagungsprogramm_ISHPP2016_gesamt.pdf</a> <a href="http://mh.mec.upt.ro/iahrwg2017/programme.html">http://mh.mec.upt.ro/iahrwg2017/programme.html</a>	
71	1 Vienna, Austria HYdropower Plants PERformance and FlexiBle Operation Towards Lean Integration of New Renewable Energies Symposium, HYPERBOLE 2 - 3 February	2016 Pulsating Water Jet (co-autor) Experimental Investigation of the Unsteady Pressure	<a href="http://mh.mec.upt.ro/iahrwg2017/programme.html">http://mh.mec.upt.ro/iahrwg2017/programme.html</a>	1.00
72	1 2017, Porto; Portugal. HYdropower Plants PERformance and FlexiBle Operation Towards Lean Integration of New Renewable Energies Symposium, HYPERBOLE 2 - 3 February	2017 Heel Elbow (co-autor) A new swirl apparatus: design, numerical analysis and	<a href="http://mh.mec.upt.ro/iahrwg2017/programme.html">http://mh.mec.upt.ro/iahrwg2017/programme.html</a>	1.00
73	1 2017, Porto; Portugal. 20th Int. Conf. on Hydropower Plants14-16	2017 preliminary measurements (co-autor) In situ investigations and failure analysis of the	<a href="https://www.vienahydro.com/wp-content/uploads/Conference_Program_ISHPP2018_final.pdf">https://www.vienahydro.com/wp-content/uploads/Conference_Program_ISHPP2018_final.pdf</a>	1.00
74	1 November 2018, Vienna, Austria. 20th Int. Conf. on Hydropower Plants14-16	2018 (autor) Technical solution to increase capacity of the	<a href="https://www.vienahydro.com/wp-content/uploads/Conference_Program_ISHPP2018_final.pdf">https://www.vienahydro.com/wp-content/uploads/Conference_Program_ISHPP2018_final.pdf</a>	1.00
75	1 November 2018, Vienna, Austria. 20th Int. Conf. on Hydropower Plants14-16	2018 against flooding due to climate change(co-autor) 3D numerical flow analysis of the non-uniformity induced by a reshaped geometry of the symmetrical suction	<a href="https://www.vienahydro.com/wp-content/uploads/Conference_Program_ISHPP2018_final.pdf">https://www.vienahydro.com/wp-content/uploads/Conference_Program_ISHPP2018_final.pdf</a>	1.00
76	1 November 2018, Vienna, Austria.	2018 elbow (co-autor)	<a href="https://www.vienahydro.com/wp-content/uploads/Conference_Program_ISHPP2018_final.pdf">https://www.vienahydro.com/wp-content/uploads/Conference_Program_ISHPP2018_final.pdf</a>	1.00

77	ASME-JSME-KSME 2019, 8th Joint Fluids Engineering Conference AJKFluids2019, July 1 28-August 1, 2019, San Francisco, CA, USA. ASME-JSME-KSME 2019, 8th Joint Fluids Engineering Conference AJKFluids2019, July	Investigation and Analysis of the Flow Field Induced by a Symmetrical Suction Elbow at the Pump Inlet 2019 (autor) Analysis of a Centrifugal Pump Equipped With an	<a href="https://event.asme.org/AJKFluids2019">https://event.asme.org/AJKFluids2019</a>	1.00
78	1 28-August 1, 2019, San Francisco, CA, USA. 4th International Conference on Fluid Machinery and Fluid Mechanics , Beijing,	2019 Axial Rotor with Variable Speed (co-autor) Decelerated Swirling Flow Control in the Discharge	<a href="https://event.asme.org/AJKFluids2019">https://event.asme.org/AJKFluids2019</a>	1.00
79	3 China University of Pannonia, Veszprém,	2008 Cone of Francis Turbines (Invited Lecture) Magnetically controllable fluids and their engineering	<a href="https://www.pannonia.hu/en/department-of-mechanical-engineering/invited-lectures">ProfSzalai_PannoniaUniversity_InvitationLetter.pdf</a>	1.00
80	3 Hungary. 30 January 2019	2019 applications (Invited Lecture)	<a href="https://www.pannonia.hu/en/department-of-mechanical-engineering/invited-lectures">df</a>	1.00
<b>Total</b>				<b>80.00</b>

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## Atragere resurse financiare prin granturi/proiecte/contracte terți

Nr.crt	Calitatea: director = 1, membru in echipa = 2	Tip proiect *	Titlul proiectului	Perioada de derulare	Valoare totala UPT** [ech. Euro]	Valoarea alocata membrului in echipa de catre directorul de proiect*** [ech. Euro]	Punctaj individual
		1	1	0223 Proiect RO-NO- MG-2019-0109 cod NO2019-MG- project no. EFOP- 3.6.2-16-	Proiect de mobilitate RO-NO-MG-2019-0109 finantat de UEFISCDI, cod proiect NO2019-MG-0223, NTNU, Trondheim, Norvegia. 2682.26 lei Muntean S. director prooiect	2019	570
2	1	00002/2019 Proiect PN-II-ID- PCE-2012-4- 0634, Contract	Research of autonomous vehicle systems related to the autonomous test track in Zalaegerszeg, Pannonia University, Veszprém, Hungaria	2019	815		0.82
3	1	17/2013, 2016. Proiect CNCISIS IDEI PCE 799, Contract	Instabilitati auto-induse ale curgerii cu rotatie in turbine hidraulice la regimuri departe de regimul optim, Muntean S. (Director proiect, Susan-Resiga R., Stuparu A., Bosioc A., Tanasa C., Moisa I., Ciocan T., Popescu C., Todiruta M., Mos D.C., Szakal R.A)	2016	85765		85.76
4	1	688/2009, perioada 2009- 1 2011.	O nouă metodă de control a curgerilor cu vartej prin injecție de apă și feedback hidrodinamic, Muntean S. (Director proiect), Susan-Resiga R., Bernad S., Stuparu A., Bosioc A., Tanasa C.	2009-2011	109670		109.67

	CEEX-M1-C2-					
	1185 – iSMART-	Integrarea tehnologiilor magneto-reologice speciale si al controlului avansat a curgerii in aplicatii industriale – iSMART-flow, Parteneri: Academia Română – Filiala Timișoara – coordonator proiect, Universitatea				
	flow, contract	”Politehnica” din Timișoara – partener P1, Universitatea de Vest din Timișoara – partener P2, Universitatea				
	MATNANTECH	”Eftimie Murgu” din Reșița – partener P3. Muntean S. (Director proiect), Anton I., Vekas L., Bica D., Bernad S., Popa C., Jurca G., Paut V., Stepanov V., Albu S., Botezatu I., Muntean S.G., Junc A., Militaru M.	2006-2008	415564		415.56
5	1 no. 64/2006 Grant CNCSIS tip					
	AT, (Cod	Muntean S. (Director proiect), Balint D., Frunză Teodora, Stuparu A., Deatcu M., Utilizarea metodelor moderne				
	220/2003, Cod	pentru simularea numerica si analiza curgerilor tridimensionale in turbinele hidraulice cu aplicatii practice la turbinele Francis si Kaplan	2003-2004	3226		3.23
6	1 238/2004) PN2 – Inovare -					
	1047, CTEMF,	Cercetari Teoretice si Experimentale pentru realizarea unui model de turbina Francis in domeniul turatiilor specifice (ns=350-400 rpm) destinat valorificarii eficiente a potentialului hidroenergetic din diferite amenajari cu aplicatie la CHE Cindere - CTEMF, Parteneri: S.C. HydroEngineering S.A. Resita–				
	contract	coordonator proeict, P1 – Universitatea „Eftimie Murgu” Resita, P2 – Academia Română – Filiala Timișoara, Muntean S. (Responsabil proiect P2), Susan-Resiga R., Bernad S, Stuparu A., Bosioc A., Anton I.,	2007-2009	13332		13.33
7	1 C59/2007					

	CEEX-M1-C2-					
	4409 – MARGAS,	Modele și metode numerice avansate în ingineria navelor de transport gaze lichefiate – MARGAS, Parteneri: Institutul de Cercetare Proiectare Construcții Navale ICEPRONAV Galați – coordonator proiect, P1 – Universitatea „Dunărea de Jos” Galați, P2 – Universitatea „Politehnica” din Timișoara, P3 – Academia Română – Filiala Timișoara, Muntean S. (Responsabil proiect P3), Bernad S, Anton I.,	2006-2008	29744	29.74	
8	1 X2C16/2006 Grant CNCSIS tip A Consorțiu no.					
9	1 33 PN-III-BG-0082	Hidrodinamica vârtejurilor și aplicații. Muntean S. (Responsabil proiect P1), Bernad S., Anton I.,(Partener P1, Academia Română – Filiala Timișoara)	2006-2008.	15455	15.45	
10	2 2016-2018 Contract Nr. BC	Transfer de cunoaștere pentru creșterea timpului de funcționare a pompelor pluviale din sistemele de apă uzată, Anton L.E., Muntean S., Marsavina L., Hedes A., Bosioc A., Galatanu S. Svoboda M., Vitan D., Szakal R., Ognean D.,	2018-2019	96722	0.00	
11	2 100/2019 Contract Nr. BC	Servicii de asistență tehnică în cadrul acțiunii de arbitraj internațional ICC 20901/MWH. Cavitație și mecanism de acționare pale rotor turbină hidraulică	2019	62200	0.00	
12	2 95/31.10.2018 Contract 299/27.10.2016 UPT	Servicii de asistență tehnică în cadrul acțiunii de arbitraj internațional ICC 20901/MWH. Cavitație și mecanism de acționare pale rotor turbină hidraulică	2018		0.00	
13	2 6 BC100/14.10.201	Servicii de asistență de specialitate pentru testarea pe model a turbinelor tip II aferente obiectivului de investiții „Retehnologizarea CHE Stejaru”	2016-2018	22500	0.00	

14	1	Cluj, 2007.	Contract ARFT nr. 9875/30.11.2007 beneficiar S.C Hidroelectrica S.A. Sucursala	Studii privind analiza numerică a curgerii în traseul hidraulic al CHE Munteni ce urmărește determinarea încărcării pe paletele rotorice în punctele de funcționare în care turbina operează cel mai frecvent, Muntean S. (Responsabil contract), Bernad S., Resiga R., Stuparu A., Bosioc A., Baya A., Anton L., Anton I.	2007	16798	16.80
15	1	Caransebes	Contract ARFT nr. 58/04.10.2007 beneficiar S.C Hidroelectrica S.A. Sucursala	Masurarea pulsatiilor de presiune in conul tubului de aspiratie, in regimuri stationare si nestationare ale turbinei Francis de la CHE Rueni, Muntean S. (Responsabil contract), Campian V., Nedelcu D., Liuba G., Cuzmos A., Dumbrava C., Anton I.	2007	14998	15.00
16	1	S.A. Sucursala Cluj	Contract Academia Romana nr. 164-12.02/05.08.2004 , beneficiar Hidroelectrica SA, Sucursala Hidrocentrale	Masurarea pulsatiilor de presiune in conul tubului de aspiratie, in regimuri stationare si nestationare ale turbinei Francis de la CHE Munteni, Muntean S. (Responsabil contract), Campian V., Nedelcu D., Grando I., Liuba G., Cuzmos A., Dumbrava C., Anton I., Muntean S. (Responsabil contract), Resiga R., Bernad S., Balint D., Baya A., Determinarea debitului turbinat prin traseul hidraulic al hidroagregatelor de la CHE Gura Lotrului, Turnu si Daiesti. Parteneri: Academia Română – Filiala Timișoara– coordonator proiect, Universitatea "Politehnica" din Timișoara – partener P1, Universitatea	2007	14998	15.00
17	1	Ramnicu Valcea.		Eftimie Murgu Resita – partener P2.	2004	9332	9.33

		Contract				
		nr.738/03.09.200	Studii privind comportarea și exploatarea echipamentelor hidroenergetice , S.C. Hidroelectrica S.A. Ramnicu --Valcea, Anton L.E., Muntean S., Baya A., Susan-Resiga R., Anton I., Stuparu, Bosioc A., Bernad S., Barbat T., Junc C., Anton I.,	2007	37559	0.00
18	2	7				
		Contract				
		Academia				
		Romana nr. 90-				
		12.02/05.05.2004				
		, beneficiar				
		Hidroelectrica	Stabilirea poziției paletelor la statorul turbinei HA			
		SA, Sucursala	Zăvideni în vederea optimizării curgerii apei prin acesta.			
		Hidrocentrale	Muntean S. (Responsabil contract), Balint D., Bernad S.,			
19	1	Ramnicu Valcea.	Susan-Resiga R., Anton I.,	2004	1974	1.97
		Contract				
		Academia				
		Romana nr. 23-				
		77.03-				
		146/09.04.2003,				
		beneficiar				
		Hidroelectrica	Analiza comparativa a doua pozitii de coloane statorice			
		SA, Sucursala	si influenta asupra campului hidrodinamic din rotorul			
		Hidrocentrale	turbinei Kaplan de la CHE Dragasani. Muntean S.			
			(Responsabil contract), Balint D., Frunza T., Stuparu A.,			
20	1	Ramnicu Valcea.	Deatcu M., Anton I., Susan-Resiga R.,	2003	1118	1.12
		Contract UPT nr.				
		54/16.04.2004,				
		beneficiar S.C.	Analiza CFD în punctul optim de funcționare a turbinei			
			Francis cu rapiditate. Muntean S. (Responsabil contract),			
21	1	RECONT S.A.	Balint D., Bernad S., Susan-Resiga R., Anton I.,	2004	3252	3.25

	TEHNOMED CEEX_X2C05/3 CEEX-Program IPA, UPT- Partener P3, Contract nr.	Hidrodinamica si transferul de masa la coloane de bule fine cu aplicare in tehnologii avansate de mediu, Susan-Resiga R., Anton L., Baya A., Bernad S., Muntean S., Stuparu A.	2007-2008	23810	0.00
22	2 334/2006 Contr. grant Bancă Mondială, nr. reg. M.E.N. 32221 din 10.05.2000, cod	Bază de Cercetare cu Utilizatori Multipli, Centrul Național pentru Ingineria Sistemelor cu Fluide Complexe, Carte N., Susan-Resiga R., Vekas L., Ancusa V., Bernad S., Sofonea V., Muntean S., Giula G., Cristea A., Carte N.,			
23	2 CNCSIS 11, Collaborative Research Project CEEX-M1-C2- 1180, contract VIASAN no:	Optimizarea Computerizata a Procesului de Diagnostic Interventie Terapeutica si Prognostic a Bolilor Cardiovasculare – CARDIOCOMP, Bernad S., Muntean S., Vekas L., Bica D., Sofonea V., Bernad E., Resiga D.,	2001-2002.	317000	0.00
24	2 81/2006, THARVEST, Collaborative Research Project CEEX-M1-C2- 2566 - THARVEST, contract AMCSIT	Interinfluence of the vertical axis, stabilized, Achard type hydraulic turbines - Bernad S., Muntean S., Anton L., Baya A., Balint D., Stuparu A., (proiect tip consortiu - AR-FT partener nr. 2),	2006 - 2008	397063	0.00
25	2 no. 192/2006 CNCSISI PCE	Mathematical models and numerical simulation for two phase cavitating flows with industrial and biomedical applications, Bernad S., Resiga R., Muntean S., Balint D., Frunză T.,	2006 - 2008	56927	0.00
26	2 730,/2005		2005-2007	16599	0.00



		BC 151/2008					
		S.C.Hidroelectrica					
		S.A., Sucursala	Cercetări și experimentări privind creșterea performanțelor turbinelor Francis FVM de 57.5-128.5				
27	2	Ramnicu Valcea	CHE Brădișor – Etapa I, Baya A., Muntean S., s.a.	2008	36682		0.00
		BC 152/2008					
		S.C.Hidroelectrica	Cercetări și experimentări privind îmbunătățirea performanțelor energetice și cavitaționale ale pompelor				
		S.A., Sucursala	PRO 10-195 de la stația de pompare Jidoaia – Etapa I,				
28	2	Ramnicu Valcea	Anton L.E., Muntean S., s.a.	2008	35323		0.00
		BC119/12.11.200					
		9					
		S.C.Hidroelectrica	Cercetări și experimentări privind îmbunătățirea performanțelor energetice și cavitaționale ale pompelor				
		S.A., Sucursala	PRO 10-195 de la stația de pompare Jidoaia – Etapa II,				
29	2	Ramnicu Valcea	Anton L.E., Muntean S., s.a	2009	27138		0.00
		BC120/12.11.200					
		9					
		S.C.Hidroelectrica	Cercetări și experimentări privind creșterea performanțelor turbinelor Francis FVM de 57.5-128.5				
		S.A., Sucursala	CHE Brădișor – Etapa II Baya A., Muntean S., s.a.				
30	2	Ramnicu Valcea		2009	33746		0.00
		BC					
		20/24.01.2011					
		S.C.Hidroelectrica	Cercetări și experimentări privind îmbunătățirea performanțelor energetice și cavitaționale ale pompelor				
		S.A., Sucursala	PRO 10-195 de la stația de pompare Jidoaia – Etapa III,				
31	2	Ramnicu Valcea	Anton L.E., Muntean S., s.a.	2011	41187		0.00
		Contract nr. BC	Cercetari si experimentari privind cresterea performantelor turbinelor Francis FVM de 57.5-128.5				
		19/24.01.2011	CHE Bradisor etapa III, Baya A., Muntean S., Susan Resiga				
		beneficiar S.C.	R., Goede E, Anton L, Bordeasu I., Marsavina L., Grecea				
		Hidroelectrica	C., Herban I.S., Musat C., Ciocan D.G., Bernad S., Bosioc				
32	2	Bucuresti,	A., Bala A.C., Neubauer R., Gridan R., Ciocan T., Tanasa	2011	47949		0.00
			C.,				

	Contract UPT nr. 87-					
33	12.02/04.05.2004 , beneficiar Hidroelectrica SA, Sucursala Hidrocentrale 2 Ramnicu Valcea. Contract UPT,	Determinarea caracteristicilor reale de functionare ale HA de la statiile de pompare Petrimanu, Jidoaia si Lotru Aval. Anton L.E., Muntean S., s.a., Parteneri: Universitatea "Politehnica" din Timișoara – coordonator proiect, Universitatea Tehnica de Constructii Bucuresti – partener P1, Academia Română – Filiala Timișoara– partener P2.	2004-2006	15075		0.00
34	beneficiar Alstom Hydro, Grenoble, 2 France Contract UPT,	Modelling the 2D Swirling Flow in Francis Turbine for Optimization of Draft Tube performances within an operating range, Resiga R., Muntean S. , Anton A., Ciocan T., Ighisan C.	2012-2013.	30000		0.00
35	beneficiar Alstom Hydro, Grenoble, 2 France Proiect SCOPES IB7320-	Modelling and Optimization of the Swirling Flow Ingested by the Draft Tube of a Francis Turbine within an Operating Range, Resiga R., Muntean S., Ciocan T.	2011-2012.	30000		0.00
36	110942/1, ctr. nr. 2 6/23.11.2005 Contract UPT nr.5214/19.04.20 07, beneficiar General Electric	Turbomachinery swirling flow optimization and control with technology of magnetorheological fluid systems	2006-2008	46506		0.00
37	2 Canada Contract UPT nr.1/01.03.2005, beneficiar Ezus	Taming the Vortex Rope project-TAVARO	2007	5725		0.00
38	2 Lyon, France	Rheological investigations of polymer samples under controlled inert atmosphere	2005	2500		0.00

		Contract UPT nr. 1510787/2005, beneficiar SIEMENS, VDO Automotive,				
39	2	Germany	Cooling cell hydrodynamics	2005	1800	0.00
		Contract UPT nr. 1521266/2005, beneficiar SIEMENS, VDO Automotive,				
40	2	Germany	Thermo-hydrodynamic optimization of a cooling cell with partial cross-walls	2005	3600	0.00
						0.00
						0.00
			<b>Total</b>			<b>736.61</b>

\* Se va specifica fie tipul competitiei, fie terti in cazul contractelor cu mediul economic

\* Se va specifica fie tipul competitiei, fie terti in cazul contractelor cu mediul economic

\*\* Se va introduce valoarea fara TVA

\*\*\* Pentru contracte derulate inainte de 01.01.1999 se va considera echivalarea: 1 Euro=1 USD

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	Kougias I., Aggidis G., Avellan F., Deniz S., Lundin U., Moro A., <b>Muntean S.</b> , Novara D., Pérez-Díaz J.I., Quaranta E., Schild P., Theodossiou N. (2019) "Analysis of emerging technologies in the hydropower sector" (Review paper), Renewable and Sustainable Energy Reviews, Vol. 113, Issue 11, Article no. 109257. DOI: 10.1016/j.rser.2019.109257 (WOS:000483422600032)	Maidar N.R., Ng C.Y., Oğuz E., (2020) A review of the optimization studies for Savonius turbine considering hydrokinetic applications, Energy Conversion and Management, Vol. 226, Article Number 113495. DOI: 10.1016/j.enconman.2020.113495 (WOS:000603339400004)	2020	DOI: 10.1016/j.enconman.2020.113495	8.208	9.21
		Antomarioni S., Bellinello M.M., Bevilacqua M., Ciarapica F.E., da Silva R.F., de Souza G.F.M. (2020) A Data-Driven Approach to Extend Failure Analysis: A Framework Development and a Case Study on a Hydroelectric Power Plant, Energies, Vol. 13, Issue 23, Article Number 6400. DOI: 10.3390/en13236400 (WOS:000597816400001)	2020	DOI: 10.3390/en13236400	2.702	3.70
		Stefanizzi M., Capurso T., Bolacco G., et al. (2020) Selection, control and techno-economic feasibility of Pumps as Turbines in Water Distribution Networks, Renewable Energy, Vol. 162, pp. 1292-1306. DOI: 10.1016/j.renene.2020.08.108 (WOS:000590672700015)	2020	DOI: 10.1016/j.renene.2020.08.108	6.274	7.27

<p>Yu X.D., Yang X.W., Liu Z. et al.(2020) Mechanism and quantified criteria of stability characteristics of hydropower plants with surge tanks during regulation, International Journal of Electrical Power and Energy Systems, Vol. 122, Article Number: 106160. DOI: 10.1016/j.ijepes.2020.106160 (WOS:000541086900033)</p>	<p>2020</p>	<p>DOI: 10.1016/j.ijepes.2020.106160</p>	<p>3.588</p>	<p>4.59</p>
<p>de Oliveira Serrao EA., Tavares Silva M., Rocha Ferreira T. et al. (2020) Land use change scenarios and their effects on hydropower energy in the Amazon, Science of the Total Environment, Vol. 744, Article Number: 140981, DOI: 10.1016/j.scitotenv.2020.140981 (WOS:000573551900004)</p>	<p>2020</p>	<p>DOI: 10.1016/j.scitotenv.2020.140981</p>	<p>6.551</p>	<p>7.55</p>
<p>Alvarez G., (2020) Optimization analysis for hydro pumped storage and natural gas accumulation technologies in the Argentine Energy System, Journal of Energy Storage, Vol. 31, Article Number: 101646. DOI: 10.1016/j.est.2020.101646 (WOS:000582467400005)</p>	<p>2020</p>	<p>DOI: 10.1016/j.est.2020.101646</p>	<p>3.762</p>	<p>4.76</p>
<p>Hunt J.D., Zakeri B., Lopes R. et al. (2020) Existing and new arrangements of pumped - hydro storage plants Renewable and Sustainable Energy Reviews, Vol. 129, Article Number: 109914 DOI: 10.1016/j.rser.2020.109914 (WOS:000541468800006)</p>	<p>2020</p>	<p>DOI: 10.1016/j.rser.2020.109914</p>	<p>12.11</p>	<p>13.11</p>
<p>Ramos H.M., Dadfar A., Besharat M. et al. (2020) Inline Pumped Storage Hydropower towards Smart and Flexible Energy Recovery in Water Networks, Water, Vol.12, Issue 8, Article Number: 2224. DOI: 10.3390/w12082224 (WOS:000568017500001)</p>	<p>2020</p>	<p>DOI: 10.3390/w12082224</p>	<p>2.544</p>	<p>3.54</p>

<p>Nautiyal H., Goel V. (2020) Sustainability assessment of hydropower projects, Journal of Cleaner Production, Vol. 265, Article Number 121661. Nautiyal H., Goel V. (2020) Sustainability assessment of hydropower projects, Journal of Cleaner Production, Vol. 265, Article Number 121661. DOI: 10.1016/j.jclepro.2020.121661 (WOS:000552097000003)</p>	<p>2020</p>	<p>DOI: 10.1016/j.jclepro.2020.121661</p>	<p>7.246</p>	<p>8.25</p>
<p>Acosta M.N., Pettersen D., Gonzalez-Longatt F. et al. (2020) Optimal Frequency Support of Variable-Speed Hydropower Plants at Telemark and Vestfold, Norway: Future Scenarios of Nordic Power System, Energies, Vol. 13, Issue 13, Article Number 3377. DOI: 10.3390/en13133377 (WOS:000550374700001)</p>	<p>2020</p>	<p>DOI: 10.3390/en13133377</p>	<p>2.702</p>	<p>3.70</p>
<p>Payambarpour S.A., Najafi A.F., Magagnato F., (2020) Investigation of deflector geometry and turbine aspect ratio effect on 3D modified in-pipe hydro Savonius turbine: Parametric study, Renewable Energy, Vol. 148, pp. 44-59. DOI: 10.1016/j.renene.2019.12.002 (WOS:000510524900004)</p>	<p>2020</p>	<p>DOI: 10.1016/j.renene.2019.12.002</p>	<p>6.274</p>	<p>7.27</p>
<p>Comino E., Dominici L., Ambrogio F. et al. (2020) Mini-hydro power plant for the improvement of urban water-energy nexus toward sustainability - A case study, Journal of Cleaner Production, Vol. 249, Article Number 119416. DOI: 10.1016/j.jclepro.2019.119416 (WOS:000507856300102)</p>	<p>2020</p>	<p>DOI: 10.1016/j.jclepro.2019.119416</p>	<p>7.246</p>	<p>8.25</p>



Yaseen Z.M., Ameen Ameen M.S., Aldlemy, M.S. et al. (2020) State-of-the Art-Powerhouse, Dam Structure, and Turbine Operation and Vibrations, Sustainability, Vol. 12, Issue 4, Article Number 1676. DOI: 10.3390/su12041676 (WOS:000522460200394)	2020	DOI: 10.3390/su12041676	2.576	3.58
Besharat M., Dadfar A., Viseu M.T. et al. (2020) Transient-Flow Induced Compressed Air Energy Storage (TI-CAES) System towards New Energy Concept, Water, Vol. 12, Issue 2, Article Number 601. DOI: 10.3390/w12020601 (WOS:000519846500292)	2020	DOI: 10.3390/w12020601	2.544	3.54
Jadoon T.R., Ali M.K., Hussain S., et al. (2020) Sustaining power production in hydropower stations of developing countries, Sustainable Energy Technologies and Assessments, Vol.37, Article Number 100637. DOI: 10.1016/j.seta.2020.100637 (WOS:000514838400062)	2020	DOI: 10.1016/j.seta.2020.100637	3.427	4.43
Tiwari G., Kumar J., Prasad V., et al. (2020) Utility of CFD in the design and performance analysis of hydraulic turbines – A review, Energy Reports, Vol. 6, pp. 2410-2429. DOI: 10.1016/j.egy.2020.09.004 (WOS:000602738200019)	2020	DOI: 10.1016/j.egy.2020.09.004	3.595	4.60
Rampasso I.S., Melo Filho G.P., Anholon R., et al. (2019) Challenges Presented in the Implementation of Sustainable Energy Management via ISO 50001:2011, Sustainability, Vol. 11, Issue 22, Article Number 6321. DOI: 10.3390/su11226321 (WOS:000503277900134)	2019	DOI: 10.3390/su11226321	2.576	3.58

	Tomczyk P., Wiatkowski M. (2020) Shaping changes in the ecological status of watercourses within barrages with hydropower schemes - literature review, Vol. 46, Issue 4, Pages 78-94. DOI: 10.24425/aep.2020.135767 (WOS:000598991000009)	2019	DOI: 10.24425/aep.2020.135767	1.775	2.78
Ardelean, T., Susan-Resiga, R., Muntean, S. (2019) Vortex breakdown in decelerated swirling flows, 2019 International Conference on ENERGY and ENVIRONMENT (CIEM) Timisoara, Romania, 2019, pp. 6-10, doi: 10.1109/CIEM46456.2019.8937569.	Goyal R., (2020) Vortex core formation in a Francis turbine during transient operation from best efficiency point to high load, Physics of Fluids, Vol. 32, Issue 7, Article Number 074109. DOI: 10.1063/5.0012227 (WOS:000553902100001)	2020	7 DOI: 10.1063/5.0012227	3.51	4.51
Bosioc A.I., Ardelean T., Szakal R., Muntean S., Borbath I., Vékás L. (2019) Experimental Investigations of a MR Clutch for a Centrifugal Pump. In: Silva L. (eds) Materials Design and Applications II. Advanced Structured Materials, vol 98. Springer, Cham. DOI: 10.1007/978-3-030-02257-0_19	Kowol P., Banbula K. (2019) Calculations for Electromagnetic Linear Pump with Magnetic Fluid as Movable Element, Applications of Electromagnetics in Modern Engineering and Medicine (PTZE) Pages 72-75 (WOS:000518915200016)	2019		0	1.00
Tănasă C., Bosioc A., <b>Muntean S.</b> , Susan-Resiga R. (2019) A novel passive method to control the swirling flow with vortex rope from the conical diffuser of hydraulic turbines with fixed blades", Applied Sciences, Vol. 9(22), 4910. DOI: 10.3390/app9224910 (WOS:000502570800187)	Muhirwa A., Cai W.-H., Su W.-T. et al. (2020) A review on remedial attempts to counteract the power generation compromise from draft tubes of hydropower plants, Renewable Energy, Vol. 150, pp. 743-764. DOI: 10.1016/j.renene.2019.12.141 (WOS:000518874500062)	2020	2019.12.141 DOI: 10.1016/j.renene.	6.274	7.27
Susan-Resiga R.F., Stuparu A., <b>Muntean S.</b> , (2019) Francis turbine with tandem runners: A proof of concept", IOP Conference Series: Earth and Environmental Science, Vol. 240(2), 022012. DOI: 10.1088/1755-1315/240/2/022012 (WOS:000560282600012)	Muhirwa A., Cai W.-H., Su W.-T. et al. (2020) A review on remedial attempts to counteract the power generation compromise from draft tubes of hydropower plants, Renewable Energy, Vol. 150, pp. 743-764. DOI: 10.1016/j.renene.2019.12.141 (WOS:000518874500062)	2020	2019.12.141 DOI: 10.1016/j.renene.	6.274	7.27

	de Oliveira Serrao EA., Tavares Silva M., Rocha Ferreira T. et al. (2020) Land use change scenarios and their effects on hydropower energy in the Amazon, Science of the Total Environment, Vol. 744, Article Number: 140981, DOI: 10.1016/j.scitotenv.2020.140981 (WOS:000573551900004)	DOI: 10.1016/j.scitotenv.2020.140981	6.551	7.55
Mos D., <b>Muntean S.</b> , Bosioc A.I., Tanasa C., Susan-Resiga R., (2017) Experimental Investigation of the Unsteady Pressure Field in Decelerated Swirling Flow with 74 degrees Sharp Heel Elbow, IoP Journal of Physics Conference Series, Vol. 813, 012046. DOI: 10.1088/1742-6596/813/1/012046 ISSN: 1742-6588 (WOS:000440372200046)	Muhirwa A., Cai W.-H., Su W.-T. et al. (2020) A review on remedial attempts to counteract the power generation compromise from draft tubes of hydropower plants, Renewable Energy, Vol. 150, pp. 743-764. DOI: 10.1016/j.renene.2019.12.141 (WOS:000518874500062)	DOI: 10.1016/j.renene.2020.2019.12.141	6.274	7.27
Tanasa C., Ciocan T., <b>Muntean S.</b> , (2017) Numerical Assessment of Pulsating Water Jet in the Conical Diffusers", AIP Conference Proceedings Vol. 1906 050002, 2017 DOI: 10.1063/1.5012315 ISSN: 0094-243X (WOS:000419835900033)	Muhirwa A., Cai W.-H., Su W.-T. et al. (2020) A review on remedial attempts to counteract the power generation compromise from draft tubes of hydropower plants, Renewable Energy, Vol. 150, pp. 743-764. DOI: 10.1016/j.renene.2019.12.141 (WOS:000518874500062)	DOI: 10.1016/j.renene.2020.2019.12.141	6.274	7.27
	Pasche S., Avellan F., Gallaire F., (2019) Optimal Control of Part Load Vortex Rope in Francis Turbines, ASME Journal of Fluids Engineering, Vol. 141, Issue 8, Article Number 081203. DOI: 10.1115/1.4042560 (WOS:000471286100018)	DOI: 10.1115/1.4042560	2.056	3.06
Stefan D., Rudolf P., <b>Muntean S.</b> , Susan-Resiga R., (2017) Proper orthogonal decomposition of self-induced instabilities in decelerated swirling flows and their mitigation through axial water injection, ASME Journal of Fluids Engineering, Vol. 139, Issue 8, Paper ID 081101:1-24. DOI: 10.1115/1.4036244 (WOS:000403876900001)	Dehkharghani A.S., Engstrom F., Aidanpaa J.-O. et al. (2020) Experimental Investigation of a 10MW Prototype Axial Turbine Runner: Vortex Rope Formation and Mitigation, ASME Journal of Fluids Engineering, Vol. 142 Issue 10, Article Number: 101212. DOI: 10.1115/1.4047793 (WOS:000567334100012)	DOI: 10.1115/1.4047793	2.056	3.06

<p>Liu Q., An B., Nohmi M. et al. (2020) Active Flow Control of a Pump-Induced Wall-Normal Vortex With Steady Blowing, ASME Journal of Fluids Engineering, Vol. 142, Issue: 8. DOI: 10.1115/1.4046692 (WOS:000543002400002)</p>	<p>DOI: 10.1115/1.404669 2020 2</p>	<p>2.056</p>	<p>3.06</p>
<p>Sotoudeh N., Maddahian R., Cervantes M. J.. (2020) Investigation of Rotating Vortex Rope formation during load variation in a Francis turbine draft tube, Renewable Energy, Vol. 151, pp. 238-254. DOI: 10.1016/j.renene.2019.11.014 (WOS:000521120700020)</p>	<p>DOI: 10.1016/j.renene. 2020 2019.11.014</p>	<p>6.274</p>	<p>7.27</p>
<p>Richard PR., Wilkins SJ., Hall JW. (2018) Particle Image Velocimetry Investigation of the Coherent Structures in a Leading-Edge Slat Flow, ASME Journal of Fluids Engineering, Vol. 140, Issue 4, Article no. 041105 DOI: 10.1115/1.4038091 (WOS:000425354400005)</p>	<p>DOI: 10.1115/1.403809 2018 1</p>	<p>2.056</p>	<p>3.06</p>
<p>Morgut M., Jost D., Skerlavaj A., Nobile E., Contento G., (2018) Numerical Predictions of Cavitating Flow Around a Marine Propeller and Kaplan Turbine Runner with Calibrated Cavitation Models, Strojinski Vestnik - Journal of Mechanical Engineering, Vol. 64, Issue 9, pp. 543-554. DOI: 10.5545/sv-jme.2017.4647 (WOS:000443155100005)</p>	<p>DOI: 10.5545/sv- 2018 jme.2017.4647</p>	<p>1.377</p>	<p>2.38</p>

	Decaix J., Mueller A., Favrel A., Avellan F, Munch C. (2017) URANS Models for the Simulation of Full Load Pressure Surge in Francis Turbines Validated by Particle Image Velocimetry, ASME Journal of Fluids Engineering, Vol. 139, Issue 12, Article Number: 121103. DOI: 10.1115/1.4037278 (WOS:000412972200003)	DOI: 10.1115/1.403727	2017 8	2.056	3.06
<b>Muntean S.</b> , Bosioc A.I., Szakal R.A., Vékás L., Susan-Resiga R.F. (2017) Hydrodynamic investigations in a swirl generator using a magneto-rheological brake. In da Silva L.F.M. (Ed.), Advanced Structured Materials, Vol. 65, pp. 209-218. Springer DOI: 10.1007/978-3-319-50784-2_17	Muhirwa A., Cai W.-H., Su W.-T. et al. (2020) A review on remedial attempts to counteract the power generation compromise from draft tubes of hydropower plants, Renewable Energy, Vol. 150, pp. 743-764. DOI: 10.1016/j.renene.2019.12.141 (WOS:000518874500062)	DOI: 10.1016/j.renene.	2020 2019.12.141	6.274	7.27
	Susan-Resiga D., Barvinschi P., (2108) Correlation of rheological properties of ferrofluid-based magnetorheological fluids using the concentration-magnetization superposition, Journal of Rheology, Vol. 62, Issue 3, pp. 739-752. DOI: 10.1122/1.5017674 (WOS:000431351700006)	DOI: 10.1122/1.501767	2018 4	3.711	4.71
<b>Bosioc A.I.</b> , Bosioc A.I., Beja T.E., <b>Muntean S.</b> , Borbáth I., Vékás L. (2017) Experimental Investigations of MR Fluids in Air and Water Used for Brakes and Clutches. In: Silva L. (eds) Materials Design and Applications. Advanced Structured Materials, vol 65. Springer, Cham. DOI: 10.1007/978-3-319-50784-2_16	Susan-Resiga D., Barvinschi P., (2108) Correlation of rheological properties of ferrofluid-based magnetorheological fluids using the concentration-magnetization superposition, Journal of Rheology, Vol. 62, Issue 3, pp. 739-752. DOI: 10.1122/1.5017674 (WOS:000431351700006)	DOI: 10.1122/1.501767	2018 4	3.711	4.71

<p>Anton A.A., <b>Muntean S.</b>, Susan-Resiga R. (2016) SWIRL2D: An interface tracking algorithm for computing the two-dimensional swirling flows with stagnant region, Proceedings of the Romanian Academy Series A: Mathematics, Physics, Technical Sciences, Information Sciences, ISSN 1454-9069, Vol. 17, Issue 4, Pages 366-373. (WOS: 000394189900012)</p>	<p>Timpea S.A., Cosma C., Sosdean D. (2019) Touch Screen Tester Device End-Effector, Materiale Plastice, Vol. 56, Issue 2, Pages 445-448. (WOS:00047661000031)</p>	<p>2019</p>	<p>1.517</p>	<p>2.52</p>
	<p>Nedelcu D., Cojocaru V., Micu L.M. et al. (2019) Using of Polymers for Rapid Prototyping of an Axial Microturbine Runner and Wicked Gates, Materiale Plastice, Vol. 56, Issue 2, Pages 454-459. (WOS:000476641000033)</p>	<p>2019</p>	<p>1.517</p>	<p>2.52</p>
	<p>Utu I.-D., Mitelea I., Bordeasu I. et al. (2019) Investigations Concerning the Corrosion and Ultrasonic Cavitation Erosion of 316L Coatings Deposited HVOF on Nodular Cast Iron Revista de Chimie, Vol. 70, Issue 5, Pages: 1625-1631. (WOS:000470086400022)</p>	<p>2019</p>	<p>1.755</p>	<p>2.76</p>
<p>Tănasă C. , <b>Muntean S.</b> , Ciocan T, Susan-Resiga R F, 3D Numerical Simulation versus Experimental Assessment of Pressure Pulsations Using a Passive Method for Swirling Flow Control in Conical Diffusers of Hydraulic Turbines, IOP Conference Series-Earth and Environmental Science, 49(8), 082018. DOI: 10.1088/1755-1315/49/8/082018 (WOS:000400156200123)</p>	<p>Muhirwa A., Cai W.-H., Su W.-T. et al. (2020) A review on remedial attempts to counteract the power generation compromise from draft tubes of hydropower plants, Renewable Energy, Vol. 150, pp. 743-764. DOI: 10.1016/j.renene.2019.12.141 (WOS:000518874500062)</p>	<p>DOI: 10.1016/j.renene. 2020 2019.12.141</p>	<p>6.274</p>	<p>7.27</p>
	<p>Muhirwa A., Cai W.-H., Li F.-C. et al. (2019) Investigation into the outlying swirl instability in the hydro-turbine draft tube under part-load operation, Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, ISSN 0957-6509, Vol. 235, Issue. 1, pp. 139-153, Article Number: 0957650919889796. DOI: 10.1177/0957650919889796 (WOS:000500898300001)</p>	<p>DOI: 10.1177/09576509 2019 919889796</p>	<p>1.563</p>	<p>2.56</p>

<p>Ciocan T., Susan-Resiga R., <b>Muntean S.</b>, (2016) Modelling and optimization of the velocity profiles at the draft tube inlet of a Francis turbine within an operating range, Journal of Hydraulic Research, ISSN 0022-1686, Vol. 54, Issue 1, Pages 74-89. (WOS:000370980100005)</p>	<p>Orso R., Benini E., Minozzo M. et al. (2020) Two-Objective Optimization of a Kaplan Turbine Draft Tube Using a Response Surface Methodology, Energies, Vol. 13, Issue 18, Article Number 4899. DOI: 10.3390/en13184899 (WOS:000581450900001)</p>	<p>DOI: 10.3390/en13184 2020 899</p>	<p>2.702</p>	<p>3.70</p>
	<p>Baidar B., Nicolle J., Gandhi B.K. et al. (2020) Effects of runner change on the Winter-Kennedy flow measurement method - A numerical study, Renewable Energy, Vol. 153, Pages 975-984. DOI: 10.1016/j.renene.2020.02.055 (WOS:000536952200079)</p>	<p>DOI: 10.1016/j.renene. 2020 2020.02.055</p>	<p>6.274</p>	<p>7.27</p>
	<p>Muhirwa A., Cai W.-H., Su W.-T. et al. (2020) A review on remedial attempts to counteract the power generation compromise from draft tubes of hydropower plants, Renewable Energy, Vol. 150, pp. 743-764. DOI: 10.1016/j.renene.2019.12.141 (WOS:000518874500062)</p>	<p>DOI: 10.1016/j.renene. 2020 2019.12.141</p>	<p>6.274</p>	<p>7.27</p>
	<p>Zhang H., Pang W., Chen D. et al. (2020) Transient stability of a hydro-turbine governing system with different tailrace tunnels, Journal of Hydraulic Research, Vol. 58, Issue 1, Pages: 60-69. DOI: 10.1080/00221686.2018.1555555 (WOS:000508914800005)</p>	<p>DOI: 10.1080/0022168 2020 6.2018.1555555</p>	<p>2.098</p>	<p>3.10</p>
	<p>Skripkin S., Tsoy M., Kuibin P., et al. (2019) Swirling flow in a hydraulic turbine discharge cone at different speeds and discharge conditions, Experimental Thermal and Fluid Science, Vol. 100, Pages 349-359. DOI: 10.1016/j.expthermflusci.2018.09.015 (WOS:000449900300027)</p>	<p>DOI: 10.1016/j.expther mflusci.2018.09.01 2019 5</p>	<p>3.444</p>	<p>4.44</p>

	<p>Gabl R., Innerhofer D., Achleitner S. et al. (2018) Evaluation criteria for velocity distributions in front of bulb hydro turbines, Renewable Energy, Vol. 121, Pages 745-756. DOI: 10.1016/j.renene.2018.01.027 (WOS:000426413600068)</p>	<p>DOI: 10.1016/j.renene. 2018 2018.01.027</p>	<p>6.274</p>	<p>7.27</p>
	<p>Yan D.L.; Zhuang K., Xu B.B. et al. (2017) Excitation Current Analysis of a Hydropower Station Model Considering Complex Water Diversion Pipes, Journal of Energy Engineering, Vol. 143, Issue 5, Article Number 04017012. DOI: 10.1061/(ASCE)EY.1943-7897.0000446 (WOS:000418398400009)</p>	<p>DOI: 10.1061/(ASCE)EY. 1943- 2017 7897.0000446</p>	<p>1.341</p>	<p>2.34</p>
<p>Javadi A., Bosioc A., Nilsson H., <b>Muntean S.</b>, Susan-Resiga R., (2016) Experimental and Numerical Investigation of the Precessing Helical Vortex in a Conical Diffuser, With Rotor-Stator Interaction, Journal of Fluids Engineering, Vol. 138, Issue 8, Article no. 081106. Doi: 10.1115/1.4033416 (WOS:000379589700006)</p>	<p>Muhirwa A., Cai W.-H., Su W.-T. et al. (2020) A review on remedial attempts to counteract the power generation compromise from draft tubes of hydropower plants, Renewable Energy, Vol. 150, pp. 743-764. DOI: 10.1016/j.renene.2019.12.141 (WOS:000518874500062)</p>	<p>DOI: 10.1016/j.renene. 2020 2019.12.141</p>	<p>6.274</p>	<p>7.27</p>
	<p>Luo X.M., Yang L., Yin H. et al. (2019) A review of vortex tools toward liquid unloading for the oil and gas industry, Chemical Engineering and Processing - Process Intensification, Vol. 145, Article Number 107679. DOI: 10.1016/j.cep.2019.107679 (WOS:000499766500024)</p>	<p>DOI: 10.1016/j.cep.201 2019 9.107679</p>	<p>3.731</p>	<p>4.73</p>
	<p>Yamamoto K., Mueller A., Favrel A., et al. (2019) Physical Mechanism of Interblade Vortex Development at Deep Part Load Operation of a Francis Turbine, ASME Journal of Fluids Engineering, Vol. 141, Issue 11, Article Number 111113. DOI: 10.1115/1.4043989 (WOS:000487748600013)</p>	<p>DOI: 10.1115/1.404398 2019 9</p>	<p>2.056</p>	<p>3.06</p>



Skripkin S., Tsoy M., Kuibin P., et al. (2019) Swirling flow in a hydraulic turbine discharge cone at different speeds and discharge conditions, Experimental Thermal and Fluid Science, Vol. 100, Pages 349-359. DOI: 10.1016/j.expthermflusci.2018.09.015 (WOS:000449900300027)	DOI: 10.1016/j.expther mflusci.2018.09.01 5	3.444	4.44
Liu S., Yang LL., Zhang D., Xu JY., (2018) Separation characteristics of the gas and liquid phases in a vane-type swirling flow field, International Journal of Multiphase Flow, Vol. 107, pp. 131-145. DOI: 10.1016/j.ijmultiphaseflow.2018.05.025 (WOS:000443786200009)	DOI: 10.1016/j.ijmultip haseflow.2018.05. 025	3.083	4.08
Zhang JZ., Liu S., Li H., Chen XP., Ma JW., Xu JY., (2018) Study of the swirling flow field induced by guide vanes using electrical resistance tomography and numerical simulations, Chemical Engineering Communications, Vol. 205, Issue 10, pp. 1351-1364. DOI: 10.1080/00986445.2018.1450247 (WOS:000441731000004)	DOI: 10.1080/0098644 5.2018.1450247	1.802	2.80
Liu S., Zhang D., Yang LL. Xu, JY., (2018) Breakup and coalescence regularity of non-dilute oil drops in a vane-type swirling flow field, Chemical Engineering Research & Design, Vol. 129, pp. 35-54. DOI: 10.1016/j.cherd.2017.10.033 (WOS:000424855100004)	DOI: 10.1016/j.cherd.2 017.10.033	3.35	4.35
Trivedi C., (2018) Investigations of Compressible Turbulent Flow in a High-Head Francis Turbine, Journal of Fluids Engineering ASME, Vol. 140, Issue 1, Article no. 011101, DOI: 10.1115/1.4037500 (WOS:000415379500001)	DOI: 10.1115/1.403750 0	2.056	3.06

<p>Trivedi C., (2018) Compressible Large Eddy Simulation of a Francis Turbine During Speed-No-Load: Rotor Stator Interaction and Inception of a Vortical Flow, Journal of Engineering for Gas Turbines and Power ASME, Vol 140, Issue 11, Article no. 112601. DOI: 10.1115/1.4039423 (WOS:000448970400014)</p>	<p>DOI: 10.1115/1.403942 2018 3</p>	<p>1.804</p>	<p>2.80</p>	
<p>Chen X., Tian Z.F., Kelso R.M. et al. (2017) New Understanding of Mode Switching in the Fluidic Precessing Jet Flow, ASME Journal of Fluids Engineering, Vol. 139, Issue 7, Article Number 071102. DOI: 10.1115/1.4036151 (WOS:000401074300002)</p>	<p>DOI: 10.1115/1.403615 2017 1</p>	<p>2.056</p>	<p>3.06</p>	
<p>Rajan G.K., Cimbala J.M. (2017) Computational and Theoretical Analyses of the Precessing Vortex Rope in a Simplified Draft Tube of a Scaled Model of a Francis Turbine, ASME Journal of Fluids Engineering, Vol. 139, Issue 2, Article Number 021102. DOI: 10.1115/1.4034693 (WOS:000395119800002)</p>	<p>DOI: 10.1115/1.403469 2017 3</p>	<p>2.056</p>	<p>3.06</p>	
<p>Drăghici I., Atănăsoaiei C., Bosioc A., <b>Muntean S.</b>, Anton L.E. (2017) Experimental analysis of the global performances for a pump with symmetrical suction elbow at two speeds, Energy Procedia, Vol. 112, Pages 225-231. DOI: 10.1016/j.egypro.2017.03.1090 (WOS:000404848300028)</p>	<p>Bai Y., Kong F., Zhao F., Wang J., Xia B., Hu Q., (2018) Experiments and Numerical Simulation of Performances and Internal Flow for High-Speed Rescue Pump with Variable Speeds, Mathematical Problems in Engineering, Article no. 9168694 DOI: 10.1155/2018/9168694 (WOS:000438801800001)</p>	<p>DOI: 10.1155/2018/916 2018 8694</p>	<p>1.009</p>	<p>2.01</p>

<p><b>Muntean S.,</b> Susan-Resiga R., Goede E., Baya A., Terzi R., Tirsi C. (2016) Scenarios for refurbishment of a hydropower plant equipped with Francis turbines, Renew Energy Env Sus., Vol. 1, 30. DOI: 10.1051/rees/2016030</p>	<p>Baidar B., Nicolle J., Gandhi B.K. et al. (2020) Effects of runner change on the Winter-Kennedy flow measurement method - A numerical study, Renewable Energy, Vol. 153, Pages 975-984. DOI: 10.1016/j.renene.2020.02.055 (WOS:000536952200079)</p>
	<p>Stefan D., Houde S., Deschenes C. (2019) Numerical Investigation of Flow in a Runner of Low-Head Bulb Turbine and Correlation With Particle Image Velocimetry and Laser Doppler Velocimetry Measurements, ASME Journal of Fluids Engineering, Vol. 141, Issue 9, Article Number 091403. DOI: 10.1115/1.4042963 (WOS:000476820400014)</p>
<p>Susan-Resiga R., <b>Muntean S.,</b> Stuparu A., Bosioc A.I., Tanasa C., Ighisan C. (2016) A variational model for swirling flow states with stagnant region, European Journal of Mechanics B-Fluids, ISSN 0097-7546, Vol. 55, Issue 1, Pages 104-115. (WOS:000367762900010)</p>	<p>Nejadali J., Riasi A., (2020) Numerical Study of a Pipe Extension Effect in Draft Tube on Hydraulic Turbine Performance, Journal of Computational Applied Mechanics, Vol. 51, Issue 1, Pages 46-54. DOI: 10.22059/jcamech.2020.289370.433 (WOS:000585979000005)</p>
	<p>Goyal R., Cervantes M.J., Gandhi B.K. (2017) Vortex Rope Formation in a High Head Model Francis Turbine, ASME Journal of Fluids Engineering, Vol. 139, Issue 4, Article Number 041102. DOI: 10.1115/1.4035224 (WOS:000395120500002)</p>
<p><b>Muntean S.,</b> Tănasă C., Bosioc A.I., Moş D.C. (2016) Investigation of the Plunging Pressure Pulsations in a Swirling Flow with Precessing Vortex Rope in a Straight Diffuser, IOP Conference Series-Earth and Environmental Science, 49(8), 082010. DOI: 10.1088/1755-1315/49/8/082010 (WOS:000400156200115)</p>	<p>Pasche S., Gallaire F., Avellan F. (2019) Origin of the synchronous pressure fluctuations in the draft tube of Francis turbines operating at part load conditions, Journal of Fluids and Structures, Vol. 86, Pages: 13-33. DOI: 10.1016/j.jfluidstructs.2019.01.013 (WOS:000466254900002)</p>

<p>DOI: 10.1016/j.renene. 2020 2020.02.055</p>	<p>6.274</p>	<p>7.27</p>
<p>DOI: 10.1115/1.404296 2019 3</p>	<p>2.056</p>	<p>3.06</p>
<p>DOI: 10.22059/jcamech 2020 .2020.289370.433</p>	<p>0</p>	<p>1.00</p>
<p>DOI: 10.1115/1.403522 2017 4</p>	<p>2.056</p>	<p>3.06</p>
<p>DOI: 10.1016/j.jfluidstr 2019 ucts.2019.01.013</p>	<p>2.84</p>	<p>3.84</p>

	Kassanos I., Anagnostopoulos J., Papantonis D. (2017) Numerical investigation of draft tube pressure pulsations in a Francis turbine with splitter blades, Journal of Physics Conference Series, Vol. 813, Article Number 012049. DOI: 10.1088/1742-6596/813/1/012049 (WOS:000440372200049)	DOI: 10.1088/1742-6596/813/1/012049	2017 49	0	1.00
Muntean S., Draghici I., Ginga G., Anton L.E., Baya A., (2015) Hydrodynamic Design of a Storage Pump Impeller using Inverse Method and Experimental Investigation of the Global Performances”, WasserWirtschaft, ISSN 0043-0978, Vol. 105, Issue 1, Pages 28-32. (WOS:000354657300007)	Fallah-Ardeshir H., Ehghaghi B., Nili-Ahmadabadi M. (2020) Inverse design of a centrifugal pump on the meridional plane using ball-spine algorithm, Scientia Iranica, Vol. 27, Issue 5, Pages 2478-2488. DOI: 10.24200/sci.2019.52991.2989 (WOS:000607691600013)	DOI: 10.24200/sci.2019.52991.2989	2020 .52991.2989	1.017	2.02
	Morabito A., de Oliveira e Silva G., Hendrick P. (2019) Deriaz pump-turbine for pumped hydro energy storage and micro applications, Journal of Energy Storage, Vol. 24, Article Number: 100788. DOI: 10.1016/j.est.2019.100788 (WOS:000481671900047)	DOI: 10.1016/j.est.2019.100788	2019 .100788	3.762	4.76
Tanasa C., Susan-Resiga R.F., Muntean S., Stuparu A., Bosioc A.I., Ciocan T., (2015) Numerical Assessment of a Novel Concept for Mitigating the Unsteady Pressure Pulsations Associated to Decelerating Swirling Flow with Precessing Helical Vortex” AIP Conference Proceedings, Vol. 1702, Paper No. 080003, 2015, ISSN: 0094-243X DOI: 10.1063/1.4938798 (WOS:000371804300029)	Muhirwa A., Cai W.-H., Su W.-T. et al. (2020) A review on remedial attempts to counteract the power generation compromise from draft tubes of hydropower plants, Renewable Energy, Vol. 150, pp. 743-764. DOI: 10.1016/j.renene.2019.12.141 (WOS:000518874500062)	DOI: 10.1016/j.renene.2019.12.141	2020 2019.12.141	6.274	7.27
Kuibin P.A., Susan-Resiga R.F., Muntean S., (2014) A model for precessing helical vortex in the turbine discharge cone, IOP Conference Series-Earth and Environmental Science, Vol. 22, Paper No 022024. DOI: 10.1088/1755-1315/22/2/022024 (WOS:000347441900058)	Favrel A., Liu Z.H., Miyagawa K., (2020) Enhancing effect of an open pipe exit on the precessing vortex core occurring in confined swirling flows, Experiments in Fluids, Vol. 61, Issue 10, Article Number 211. DOI: 10.1007/s00348-020-03042-1 (WOS:000571746300002)	DOI: 10.1007/s00348-020-03042-1	2020 020-03042-1	2.335	3.34

	<p>Favrel A., Pereira J.G. Jr., Mueller A. et al. (2020) Swirl number based transposition of flow-induced mechanical stresses from reduced scale to full-size Francis turbine runners, Journal of Fluids and Structures, Vol. 94, Article Number 102956. DOI: 10.1016/j.jfluidstructs.2020.102956 (WOS:000527941200003)</p>		<p>DOI: 10.1016/j.jfluidstr 2020 ucts.2020.102956</p>	<p>2.84</p> <hr/> <p>3.84</p>
	<p>Favrel A., Pereira J.G. Jr. Landry C., Mueller A., Nicolet C., Avellan F., (2018) New insight in Francis turbine cavitation vortex rope: role of the runner outlet flow swirl number, Journal of Hydraulic Research, Vol. 56, Issue 3, pp. 367-379. DOI: 10.1080/00221686.2017.1356758 (WOS:000435691900006)</p>		<p>DOI: 10.1080/0022168 2018 6.2017.1356758</p>	<p>2.098</p> <hr/> <p>3.10</p>
	<p>Favrel A., Mueller A., Landry C., Yamamoto K., Avellan F. (2015) Study of the vortex-induced pressure excitation source in a Francis turbine draft tube by particle image velocimetry, Experiments in Fluids, Vol. 55, Issue 12, Article no. 215. doi: 10.1007/s00348-015-2085-5 (WOS:000366639800008)</p>		<p>doi: 10.1007/s00348- 2015 015-2085-5</p>	<p>2.335</p> <hr/> <p>3.34</p>
<p>Ciocan T., Susan-Resiga R., <b>Muntean S.</b>, (2014) Improving draft tube hydrodynamics over wide operating range, Proceedings of the Romanian Academy Series A: Mathematics, Physics, Technical Sciences, Information Sciences, Vol. 15, Issue 2, pp: 182-190. (WOS:000336714400011)</p>	<p>Lyutov A.E., Chirkov D.V., Skorospelov V.A., Turuk P.A., Cherny S.G (2015) Coupled Multipoint Shape Optimization of Runner and Draft Tube of Hydraulic Turbines, ASME Journal of Fluids Engineering, Vol. 137, Issue 11, Article No: 111302. DOI: 10.1115/1.4030678 (WOS:000362509900010)</p>		<p>DOI: 10.1115/1.40 2015 30678</p>	<p>2.056</p> <hr/> <p>3.06</p>

<p>Negru R., <b>Muntean S.</b>, Pasca N., Marsavina L., (2014) Failure assessment of the shaft of a pumped storage unit, <i>Fatigue and Fracture of Engineering Materials and Structures</i>, Vol. 37, No. 7, pp. 807-820. DOI: 10.1115/1.4030678 (WOS:000362509900010)</p>	<p>Campagnolo A., Meneghetti G., Berto F. et al. (2017) Crack initiation life in notched steel bars under torsional fatigue: Synthesis based on the averaged strain energy density approach, <i>International Journal of Fatigue</i>, Vol. 100, SI, Pages 563-574, Part: 2. DOI: 10.1016/j.ijfatigue.2016.12.022 (WOS:000402348200012)</p>	<p>DOI: 10.1016/j.ijfatigue. 2017 2016.12.022</p>	<p>4.369</p>	<p>5.37</p>
	<p>Gallo P., Bressan S., Morishita T. et al. (2017) Analysis of multiaxial low cycle fatigue of notched specimens for type 316L stainless steel under non-proportional loading, <i>Theoretical and Applied Fracture Mechanics</i>, Vol. 89, Pages 79-89. DOI: 10.1016/j.tafmec.2017.01.009 (WOS:000400217200008)</p>	<p>DOI: 10.1016/j.tafmec. 2017 2017.01.009</p>	<p>3.021</p>	<p>4.02</p>
	<p>Zhou H., Wen J., Wang Z., Zhang Y., Du X. (2016) Fatigue crack initiation prediction of cope hole details in orthotropic steel deck using the theory of critical distances, <i>Fatigue and Fracture of Engineering Materials and Structures</i>, Vol. 39, Issue 9, pp: 1051-1066 DOI: 10.1111/ffe.12402 (WOS:000383726700001)</p>	<p>DOI: 10.1111/ffe.1 2016 2402</p>	<p>3.031</p>	<p>4.03</p>
	<p>Zhang, L.K., Ma Z.Y., Wu Q.Q. and Wang X.N., (2016) Vibration analysis of coupled bending-torsional rotor-bearing system for hydraulic generating set with rub-impact under electromagnetic excitation, <i>Archive of Applied Mechanics</i>, Vol. 86, Issue 9, pp. 1665-1679. DOI: 10.1007/s00419-016-1142-8 (WOS:000382009000009)</p>	<p>DOI: 10.1007/s004 2016 19-016-1142-8</p>	<p>1.374</p>	<p>2.37</p>

	<p>Xu B.B., Chen D.Y., Zhang H., Wang F.F. , (2015) The modeling of the fractional-order shafting system for a water jet mixed-flow pump during the startup process, Communications in Nonlinear Science and Numerical Simulation, Vol. 29, Issue 1-3, pp: 12-24. DOI: 10.1016/j.cnsns.2015.04.018 (WOS:000357933500002)</p>	<p>DOI: 10.1016/j.cns 2015 ns.2015.04.018</p>	<p>4.115</p>	<p>5.12</p>
	<p>Berto F. (2015) Crack Initiation at V-Notch Tip under In-Plane Mixed Mode Loading: A Review of the Fictitious Notch Rounding Concept, Physical Mesomechanics, Vol. 18, Issue 4, pp: 273-282. DOI: 10.1134/S1029959915040013 (WOS:000367472800001)</p>	<p>DOI: 10.1134/S102 2015 9959915040013</p>	<p>1.368</p>	<p>2.37</p>
	<p>Berto F. (2015) A criterion based on the local strain energy density for the fracture assessment of cracked and V-notched components made of incompressible hyperelastic materials, Theoretical and Applied Fracture Mechanics, Vol. 76, pp: 17-26. DOI: 10.1016/j.tafmec.2014.12.008 (WOS:000352049800003)</p>	<p>DOI: 10.1016/j.taf 2015 mec.2014.12.008</p>	<p>3.021</p>	<p>4.02</p>
<p><b>Muntean S., Susan-Resiga R., Câmpian V.C., Dumbravă C., Cuzmoș A., (2014) In situ unsteady pressure measurements on the draft tube cone of the Francis turbine with air injection over an extended operating range, UPB Scientific Bulletin, Series D: Mechanical Engineering, Vol. 6, No. 3, pp: 173-180. International Conference Energy – Environment (CIEM2013) (SCOPUS database)</b></p>	<p>Muhirwa A., Cai W.-H., Su W.-T. et al. (2020) A review on remedial attempts to counteract the power generation compromise from draft tubes of hydropower plants, Renewable Energy, Vol. 150, pp. 743-764. DOI: 10.1016/j.renene.2019.12.141 (WOS:000518874500062)</p>	<p>DOI: 10.1016/j.renene. 2020 2019.12.141</p>	<p>6.274</p>	<p>7.27</p>

<p>Javadi A., Bosioc A.I. Nilsson, H., <b>Muntean S.</b>, Susan-Resiga R.F., (2014) Velocity and pressure fluctuations induced by the precessing helical vortex in a conical diffuser, IOP Conference Series-Earth and Environmental Science, Vol. 22, Paper No 032009. DOI: 10.1088/1755-1315/22/3/032009 (WOS:000347441900067)</p>	<p>Trivedi C., Cervantes M.J. (2017) Fluid-structure interactions in Francis turbines: A perspective review, Renewable &amp; Sustainable Energy Reviews, Part I, Vol. 68, pp. 87-101. DOI: 10.1016/j.rser.2016.09.121 (WOS:000391899200008)</p>	<p>DOI: 10.1016/j.rser.2017 6.09.121</p>	<p>12.11</p>	<p>13.11</p>
	<p>Su W.-T., Binama M., Li Y. et al. (2020) Study on the method of reducing the pressure fluctuation of hydraulic turbine by optimizing the draft tube pressure distribution, Renewable Energy, Vol. 162, Pages 550-560. DOI: 10.1016/j.renene.2020.08.057 (WOS:000590673300002)</p>	<p>DOI: 10.1016/j.rene 2020 ne.2020.08.057</p>	<p>6.274</p>	<p>7.27</p>
	<p>Rajan G.K., Cimbala J.M. (2017) Computational and Theoretical Analyses of the Precessing Vortex Rope in a Simplified Draft Tube of a Scaled Model of a Francis Turbine, ASME Journal of Fluids Engineering, Vol. 139, Issue 2, Article Number 021102. DOI: 10.1115/1.4034693 (WOS:000395119800002)</p>	<p>DOI: 10.1115/1.403469 2017 3</p>	<p>2.056</p>	<p>3.06</p>
	<p>Su W.T., Li X.B., Lan C.F., An S., Wang J.S., Li F.C., (2016) Chaotic dynamic characteristics of pressure fluctuation signals in hydro-turbine, Journal of Mechanical Science and Technology, Vol. 30, Issue 11, pp. 5009-5017. DOI: 10.1007/s12206-016-1020-x (WOS:000388131900022)</p>	<p>DOI: 10.1007/s12206- 2016 016-1020-x</p>	<p>1.345</p>	<p>2.35</p>



<p>Bosioc A.I., <b>Muntean S.</b>, Tănasă C., Susan-Resiga R.F., Vékás L., (2014) Unsteady pressure measurements of decelerated swirling flow in a discharge cone at lower runner speeds, IOP Conference Series-Earth and Environmental Science, Vol. 22, Paper No 032008. DOI: 10.1088/1755-1315/22/3/032008 (WOS:000347441900066)</p>	<p>Skripkin S., Tsoy M., Kuibin P., et al. (2019) Swirling flow in a hydraulic turbine discharge cone at different speeds and discharge conditions, Experimental Thermal and Fluid Science, Vol. 100, Pages 349-359. DOI: 10.1016/j.expthermflusci.2018.09.015 (WOS:000449900300027)</p>	<p>DOI: 10.1016/j.expther mflusci.2018.09.01</p>	<p>2019 5</p> <hr/> <p>3.444</p>	<p>4.44</p>
	<p>Susan-Resiga D., Barvinschi P., (2108) Correlation of rheological properties of ferrofluid-based magnetorheological fluids using the concentration-magnetization superposition, Journal of rheology, Vol. 62, Issue 3, pp. 739-752. DOI: 10.1122/1.5017674 (WOS:000431351700006)</p>	<p>DOI: 10.1122/1.501767</p>	<p>2018 4</p> <hr/> <p>3.711</p>	<p>4.71</p>
	<p>Yang J., Hu QJ., Wang ZW., Ding JH., Jiang XY., (2018) Effects of inlet cavitation on swirling flow in draft-tube cone, Engineering computations, Vol. 35 Issue 4 pp. 1694-1705. DOI: 10.1108/EC-08-2017-0313 (WOS:000439459700006)</p>	<p>DOI: 10.1108/EC- 2018 08-2017-0313</p>	<p>2018 08-2017-0313</p> <hr/> <p>1.322</p>	<p>2.32</p>
	<p>Rajan G.K., Cimbala J.M. (2017) Computational and Theoretical Analyses of the Precessing Vortex Rope in a Simplified Draft Tube of a Scaled Model of a Francis Turbine, ASME Journal of Fluids Engineering, Vol. 139, Issue 2, Article Number 021102. DOI: 10.1115/1.4034693 (WOS:000395119800002)</p>	<p>DOI: 10.1115/1.403469</p>	<p>2017 3</p> <hr/> <p>2.056</p>	<p>3.06</p>
	<p>Javadi A., Nilsson H., (2017) Active flow control of the vortex rope and pressure pulsations in a swirl generator, Engineering Applications of Computational Fluid Mechanics, Vol. 11, Issue 1, pp: 30-41. DOI: 10.1080/19942060.2016.1235515 (WOS:000386338500003)</p>	<p>DOI: 10.1080/1994206</p>	<p>2017 0.2016.1235515</p> <hr/> <p>5.8</p>	<p>6.80</p>

<p>Drăghici I., <b>Muntean S.</b>, Bosioc A.I., Anton L.E., (2014) LDV measurements of the velocity field on the inlet section of a pumped storage equipped with a symmetrical suction elbow for variable discharge values, IOP Conference Series-Earth and Environmental Science, Vol. 22, Paper No 032017. DOI: 10.1088/1755-1315/22/3/032017 (WOS:000347441900075)</p>	<p>Morita N., Nogami H., Higurashi E., Ito T., Sawada R., (2016),Development of a Built-In Micro-Laser Doppler Velocimeter, Journal of Microelectromechanical Systems, Vol. 25, Issue 2, pp. 380-387 doi: 10.1109/JMEMS.2016.2518691 (WOS:000374177500018)</p>
<p>Tanasa C., <b>Muntean S.</b>, Bosioc A.I., Susan-Resiga R. (2014) 3D numerical simulation versus experimental assessment of pressure pulsations using a passive method for swirling flow control in conical diffusers of hydraulic turbines. In Proceedings of the 28th IAHR Symposium on Hydraulic Machinery and Systems, Grenoble, France, 4–8 July 2014.</p>	<p>Muhirwa A., Cai W.-H., Su W.-T. et al. (2020) A review on remedial attempts to counteract the power generation compromise from draft tubes of hydropower plants, Renewable Energy, Vol. 150, pp. 743-764. DOI: 10.1016/j.renene.2019.12.141 (WOS:000518874500062)</p>
	<p>Valero C., Egusquiza M., Egusquiza E., Presas A., Valentin D., Bossio M., (2018) Extension of Operating Range in Pump-Turbines. Influence of Head and Load, Energies, Vol. 10, Issue 12, Article no. 2178 DOI: 10.3390/en10122178 (WOS:000423156900249)</p>
<p>Tanasa C., Bosioc A.I., Susan-Resiga R.F., <b>Muntean S.</b>, (2013) Experimental investigations of the swirling flow in the conical diffuser using flow-feedback control technique with additional energy source” IOP Conference Series-Earth and Environmental Science, Vol. 15, Paper No 062043. ISSN: 1755-1307 DOI: 10.1088/1755-1315/15/6/062043 (WOS: 000324782300210)</p>	<p>Muhirwa A., Cai W.-H., Su W.-T. et al. (2020) A review on remedial attempts to counteract the power generation compromise from draft tubes of hydropower plants, Renewable Energy, Vol. 150, pp. 743-764. DOI: 10.1016/j.renene.2019.12.141 (WOS:000518874500062)</p>

<p>doi: 10.1109/JMEMS.2 2016 016.2518691</p>	<p>2.534</p>	<p>3.53</p>
<p>DOI: 10.1016/j.renene. 2020 2019.12.141</p>	<p>6.274</p>	<p>7.27</p>
<p>DOI: 10.3390/en10122 2018 178</p>	<p>2.702</p>	<p>3.70</p>
<p>DOI: 10.1016/j.renene. 2020 2019.12.141</p>	<p>6.274</p>	<p>7.27</p>

<p>Tănasă C., Bosioc A., <b>Muntean S.</b>, and Susan-Resiga R. (2013) Flow-feedback method for mitigating the vortex rope in decelerated swirling flows, Journal of Fluids Engineering, Vol. 135, Issue 6, pp: 1–11. DOI: 10.1115/1.4023946 (WOS:000326103300011)</p>	<p>Dehkharqani A.S., Engstrom F., Aidanpaa J.-O. et al. (2020) Experimental Investigation of a 10MW Prototype Axial Turbine Runner: Vortex Rope Formation and Mitigation, ASME Journal of Fluids Engineering, Vol. 142 Issue 10, Article Number: 101212.DOI: 10.1115/1.4047793 (WOS:000567334100012)</p>	<p>DOI: 10.1115/1.404779</p>	2020	3	2.056	3.06
	<p>Muhirwa A., Cai W.-H., Su W.-T. et al. (2020) A review on remedial attempts to counteract the power generation compromise from draft tubes of hydropower plants, Renewable Energy, Vol. 150, pp. 743-764. DOI: 10.1016/j.renene.2019.12.141 (WOS:000518874500062)</p>	<p>DOI: 10.1016/j.renene.</p>	2020	2019.12.141	6.274	7.27
	<p>Pasche S., Avellan F., Gallaire F., (2019) Optimal Control of Part Load Vortex Rope in Francis Turbines, ASME Journal of Fluids Engineering, Vol. 141, Issue 8, Article Number 081203. DOI: 10.1115/1.4042560 (WOS:000471286100018)</p>	<p>DOI: 10.1115/1.404256</p>	2019	0	2.056	3.06
	<p>Pasche S., Gallaire F., Avellan F. (2019) Origin of the synchronous pressure fluctuations in the draft tube of Francis turbines operating at part load conditions, Journal of Fluids and Structures, Vol. 86, Pages: 13-33. DOI: 10.1016/j.jfluidstructs.2019.01.013 (WOS:000466254900002)</p>	<p>DOI: 10.1016/j.jfluidstr</p>	2019	ucts.2019.01.013	2.84	3.84

<p>Rudolf P., Urban O., Stefan D. (2019) Construction of a reduced-order dynamic model for prospective swirling flow control in hydraulic turbine draft tube, IOP Conference Series-Earth and Environmental Science, Vol. 240, Article Number 022065. DOI: 10.1088/1755-1315/240/2/022065 (WOS:000560282600065)</p>	<p>DOI: 10.1088/1755- 1315/240/2/0220 2019 65</p>	<p>0</p>	<p>1.00</p>
<p>Rajan G.K., Cimbala J.M. (2017) Computational and Theoretical Analyses of the Precessing Vortex Rope in a Simplified Draft Tube of a Scaled Model of a Francis Turbine, ASME Journal of Fluids Engineering, Vol. 139, Issue 2, Article Number 021102. DOI: 10.1115/1.4034693 (WOS:000395119800002)</p>	<p>DOI: 10.1115/1.403469 2017 3</p>	<p>2.056</p>	<p>3.06</p>
<p>Zhou L.J., Liu M., Wang Z.W., Liu D.M., Zhao Y.Z. (2017) Numerical simulation of the blade channel vortices in a Francis turbine runner, Engineering computations, Vol. 34, Issue 2, pp. 364-376 DOI: 10.1108/EC-10-2015-0302 (WOS:000404766700009)</p>	<p>DOI: 10.1108/EC- 2017 10-2015-0302</p>	<p>1.322</p>	<p>2.32</p>
<p>Iviangani L., Buchinayr M., Darwish M. et al. (2017) A fully coupled OpenFOAM (R) solver for transient incompressible turbulent flows in ALE formulation, Numerical Heat Transfer Part B - Fundamentals, Vol. 71, Issue 4, Pages 313 - 326. DOI: 10.1080/10407790.2017.1293969 (WOS:000400329800002)</p>	<p>DOI: 10.1080/1040779 2017 0.2017.1293969</p>	<p>1.6</p>	<p>2.60</p>

	<p>Javadi A., Nilsson H., (2017) Active flow control of the vortex rope and pressure pulsations in a swirl generator, Engineering Applications of Computational Fluid Mechanics, Vol. 11, Issue 1, pp: 30-41. DOI: 10.1080/19942060.2016.1235515 (WOS:000386338500003)</p>	<p>DOI: 10.1080/1994206 2017 0.2016.1235515</p>	<p>5.8</p>	<p>6.80</p>
	<p>Javadi A., Nilsson H., (2015) Time-accurate Numerical Simulations of Swirling Flow with Rotor-stator Interaction, Flow Turbulence and Combustion, Vol. 95, Issue 4, pp. 755-774. doi: 10.1007/s10494-015-9632-2 (WOS:000364930200007)</p>	<p>doi: 10.1007/s104 2015 94-015-9632-2</p>	<p>2.472</p>	<p>3.47</p>
	<p>Javadi A., Nilsson H., (2014) Unsteady numerical simulation of the flow in the U9 Kaplan turbine model, IOP Conference Series-Earth and Environmental Science, Vol. 22 , Article Number: 022001. DOI: 10.1088/1755-1315/22/2/022001 (WOS:000347441900035)</p>	<p>DOI: 10.1088/1755- 1315/22/2/02200 2014 1</p>	<p>0</p>	<p>1.00</p>
<p>Anton A., Cretu V., Ruprecht A., <b>Muntean S.</b>, (2013) Traffic Replay Compression (TRC): a highly efficient method for handling parallel numerical simulation data" Proceedings of the Romanian Academy Series A: Mathematics, Physics, Technical Sciences, Information Sciences, ISSN 1454-9069, Vol. 14, Issue 4, Pages 385-392. (WOS:000328441500016)</p>	<p>Timpea S.A., Cosma C., Sosdean D. (2019) Touch Screen Tester Device End-Effector, Materiale Plastice, Vol. 56, Issue 2, Pages 445-448. (WOS:00047661000031)</p>	<p>2019</p>	<p>1.517</p>	<p>2.52</p>
	<p>Nedelcu D., Cojocaru V., Micu L.M. et al. (2019) Using of Polymers for Rapid Prototyping of an Axial Microturbine Runner and Wicked Gates, Materiale Plastice, Vol. 56, Issue 2, Pages 454-459. (WOS:000476641000033)</p>	<p>2019</p>	<p>1.517</p>	<p>2.52</p>

	Utu I.-D., Mitelea I., Bordeasu I. et al. (2019) Investigations Concerning the Corrosion and Ultrasonic Cavitation Erosion of 316L Coatings Deposited HVOF on Nodular Cast Iron Revista de Chimie, Vol. 70, Issue 5, Pages: 1625-1631. (WOS:000470086400022)	2019		1.755	2.76
Negru R., Marsavina L., Muntean S., Pasca N. (2013) Fatigue Behaviour of Stainless Steel Used for Turbine Runners Fatigue Behaviour of Stainless Steel Used for Turbine Runners, Advanced Engineering Forum, Vol. 8-9, Page 413. DOI: 10.4028/www.scientific.net/AEF.8-9.413 (WOS:000323184000047)	Pandey V.B., Singh I.V., Mishra B.K., Ahmad S., Rao A.V., Kumar V. (2019) A new framework based on continuum damage mechanics and XFEM for high cycle fatigue crack growth simulations, Engineering Fracture Mechanics, Vol. 206, Pages: 172-200. DOI: 10.1016/j.engfracmech.2018.11.021 (WOS:000454511700011)	2019	DOI: 10.1016/j.engfrac mech.2018.11.021	3.426	4.43
Muntean S., Ciocan T., Susan-Resiga R.F., Cervantes M., Nilsson H., (2013) Mathematical, numerical and experimental analysis of the swirling flow at a Kaplan runner outlet, IOP Conference Series-Earth and Environmental Science, Vol. 15, Paper No 032001. DOI: 10.1088/1755-1315/15/3/032001 (WOS:000324782300031)	Abbas A., Kumar A., (2017) Development of draft tube in hydro-turbine: a review, International Journal of Ambient Energy, Vol. 38, Issue 3 Pages: 323-330 . DOI: 10.1080/01430750.2015.1111845 (WOS:000396854700016)	2017	DOI: 10.1080/0143075 0.2015.1111845	0	1.00
	Galvan S., Reggio M., Guibault F., (2015) Numerical Optimization of the Inlet Velocity Profile Ingested by the Conical Draft Tube of a Hydraulic Turbine, ASME Journal of Fluids Engineering, Vol. 137, Issue 7, Article no. 071102. doi: 10.1115/1.4029837 (WOS:000355700200002)	2015	doi: 10.1115/1.402983 7	2.056	3.06
	Galvan S., Reggio M., Guibault F. et al. (2014) Numerical Analysis of the Turbine 99 Draft Tube Flow Field Provoked by Redesigned Inlet Velocity Profiles, IOP Conference Series-Earth and Environmental Science, Vol. 22, Article Number 022021. DOI: 10.1088/1755-1315/22/2/022021 (WOS:000347441900055)	2014	DOI: 10.1088/1755- 1315/22/2/02202 1	0	1.00

<p>Susan-Resiga R.F., <b>Muntean S.</b>, Ciocan T., Joubarne E., Leroy P., Bornard L., (2013) Influence of the velocity field at the inlet of a Francis turbine draft tube on performance over an operating range, IOP Conference Series-Earth and Environmental Science, Vol. 15, Paper No 032008. DOI: 10.1088/1755-1315/15/3/032008 (WOS:000324782300038)</p>	<p>Abbas A., Kumar A., (2017) Development of draft tube in hydro-turbine: a review, International Journal of Ambient Energy, Vol. 38, Issue 3 Pages: 323-330 . DOI: 10.1080/01430750.2015.1111845 (WOS:000396854700016)</p>	<p>DOI: 10.1080/0143075 2017 0.2015.1111845</p>	<p>0</p>	<p>1.00</p>
	<p>Galvan S., Reggio M., Guibault F., (2015) Numerical Optimization of the Inlet Velocity Profile Ingested by the Conical Draft Tube of a Hydraulic Turbine, ASME Journal of Fluids Engineering, Vol. 137, Issue 7, Article no. 071102. doi: 10.1115/1.4029837 (WOS:000355700200002)</p>	<p>doi: 10.1115/1.402983 2015 7</p>	<p>2.056</p>	<p>3.06</p>
	<p>Tian X.Q., Pan H.C., Hong S.L., Zheng Y., (2015) Improvement of hydro-turbine draft tube efficiency using vortex generator, Advances in Mechanical Engineering, Vol. 7, Issue 7, Paper ID 1687814015595339 doi: 10.1177/1687814015595339 (WOS:000358862700039)</p>	<p>doi: 10.1177/1687814 2015 015595339</p>	<p>1.161</p>	<p>2.16</p>
	<p>Dou H.S., Niu L., Cao S.L., (2014) Effects of Tangential Velocity Distribution on Flow Stability in a Draft Tube, Journal of Thermal Science Vol. 23, Issue 5, pp. 446-453. doi: 10.1007/s11630-014-0728-0 (WOS:000341337200006)</p>	<p>doi: 10.1007/s11630- 2014 014-0728-0</p>	<p>1.972</p>	<p>2.97</p>
<p>Stefan D., Rudolf P., <b>Muntean S.</b>, Susan-Resiga R.F. (2013) Structure of flow fields downstream of two different swirl generators. Engineering Mechanics, Vol. 20, Issue 5, pp. 339–353. Proceedings of the 18<sup>th</sup> International Conference Engineering Mechanics, 14 – 17 May 2012, Svatka, Czech Republic.</p>	<p>Skripkin S., Tsoy M., Kuibin P., et al. (2019) Swirling flow in a hydraulic turbine discharge cone at different speeds and discharge conditions, Experimental Thermal and Fluid Science, Vol. 100, Pages 349-359. DOI: 10.1016/j.expthermflusci.2018.09.015 (WOS:000449900300027)</p>	<p>DOI: 10.1016/j.expther mflusci.2018.09.01 2019 5</p>	<p>3.444</p>	<p>4.44</p>

	<p>Skripkin S., Tsoy M., Shtork S., Hanjalic K., (2016) Comparative analysis of twin vortex ropes in laboratory models of two hydro-turbine draft-tubes, Journal of Hydraulic Research, Vol 54, Issue 4, pp. 450-460 DOI: 10.1080/00221686.2016.1168325 (WOS:000379139000007)</p>	<p>DOI: 10.1080/00221686.2016.1168325 2016 25</p>	<p>2.098</p>	<p>3.10</p>
	<p>Tsoy M.A., Skripkin S.G., Shtork S. I. (2015) Experimental investigation of a twin vortex breakdown on the draft tube models, Conference: 5th International Youth Conference on Energy (IYCE) Location: Pisa, ITALY Date: MAY 27-30, 2015, 2015 5TH INTERNATIONAL YOUTH CONFERENCE ON ENERGY (IYCE). DOI: 10.1109/IYCE.2015.7180821 (WOS:000381549900093)</p>	<p>DOI: 10.1109/IYCE.2015.7180821 2015 5.7180821</p>	<p>0</p>	<p>1.00</p>
	<p>Gagnon J.-M., Aeschlimann V., Houde S., Flemming F., Coulson S., Deschenes C., (2012) Experimental investigation of draft tube inlet velocity field of a propeller turbine, ASME Journal of Fluids Engineering, Vol 34, Issue 10, 101102:1-12. DOI: 10.1115/1.4007523 (WOS:000314760800002)</p>	<p>DOI: 10.1115/1.4007523 2012 3</p>	<p>2.056</p>	<p>3.06</p>
<p>Negru R., <b>Muntean S.</b>, Marsavina L., Susan-Resiga R.F., Pasca N., (2012) Computation of stress distribution in a Francis turbine runner induced by fluid flow, Computational Material Science, Vol. 64, Issue 11, Pages 253-259. DOI: 10.1016/j.commatsci.2012.05.073 (WOS:000308396200053)</p>	<p>Ameen A.M.S., Ibrahim Z., Othman F. et al. (2020) Water flow stabilization using submerged weir for draft-tube reaction hydraulic turbine, Scientia Iranica, Vol 27, Issue 1, Pages 159-176 . DOI: 10.24200/sci.2018.50038.1476 (WOS:000514810900013)</p>	<p>DOI: 10.24200/sci.2018.50038.1476 2020 .50038.1476</p>	<p>1.017</p>	<p>2.02</p>



<p>Zhang L.J., Yin G.J., Wang S. et al. (2020) Study on FSI Analysis Method of a Large Hydropower House and Its Vortex-Induced Vibration Regularities, Advances in Civil Engineering, Vol. 2020, Article Number 7596080. DOI: 10.1155/2020/7596080 (WOS:000591015000009)</p>	<p>DOI: 10.1155/2020/759 2020 6080</p>	<p>1.176</p>	<p>2.18</p>
<p>Ansarifard N., Kianejad S.S., Fleming A. et al. (2020) Design optimization of a purely radial turbine for operation in the inhalation mode of an oscillating water column, Renewable Energy, Vol. 152, Pages 540-556. DOI: 10.1016/j.renene.2020.01.084 (WOS:000536949600045)</p>	<p>DOI: 10.1016/j.renene. 2020 2020.01.084</p>	<p>6.274</p>	<p>7.27</p>
<p>Chen X.C., Zheng Y., Xu J.H. et al. (2020) Fatigue Life Study of Francis Pump under Reverse Generation Condition Based on Fluid Solid Coupling, Water, Vol. 12, Issue 4, Article Number 1162. DOI: 10.3390/w12041162 (WOS:000539527500239)</p>	<p>DOI: 10.3390/w120411 2020 62</p>	<p>2.544</p>	<p>3.54</p>
<p>Zhu D., Tao R., Xiao R. et al. (2020) Solving the runner blade crack problem for a Francis hydro-turbine operating under condition-complexity, Renewable Energy, Vol. 149, Pages 298-320. DOI: 10.1016/j.renene.2019.12.057 (WOS:000517856500026)</p>	<p>DOI: 10.1016/j.renene. 2020 2019.12.057</p>	<p>6.274</p>	<p>7.27</p>
<p>Yaseen Z.M., Ameen Ameen M.S., Aldlemy, M.S. et al. (2020) State-of-the Art-Powerhouse, Dam Structure, and Turbine Operation and Vibrations, Sustainability, Vol. 12, Issue 4, Article Number 1676. DOI: 10.3390/su12041676 (WOS:000522460200394)</p>	<p>DOI: 10.3390/su120416 2020 76</p>	<p>2.576</p>	<p>3.58</p>

<p>Laouari A., Ghenaiet A. (2019) Predicting unsteady behavior of a small francis turbine at several operating points, Renewable Energy, Vol. 133, Pages 712-724. DOI: 10.1016/j.renene.2018.08.111 (WOS:000456761300064)</p>	<p>DOI: 10.1016/j.renene. 2019 2018.08.111</p>	<p>6.274</p>	<p>7.27</p>
<p>Thapa BS., Dahlhaug OG., Thapa B., (2018) Flow measurements around guide vanes of Francis turbine: A PIV approach, Renewable energy, Vol. 126, pp. 177-188. DOI: 10.1016/j.renene.2018.03.042 (WOS:000435620100015)</p>	<p>DOI: 10.1016/j.renene. 2018 2018.03.042</p>	<p>6.274</p>	<p>7.27</p>
<p>Ameen AMS, Ibrahim Z., Othman F., Al-Ansari N., Yaseen ZM., (2018) Minimizing the Principle Stresses of Powerhoused Rock-Fill Dams Using Control Turbine Running Units: Application of Finite Element Method, Water, Vol. 10, Issue 9, Article no. 1138. DOI: 10.3390/w10091138. (WOS:000448821900030)</p>	<p>DOI: 10.3390/w100911 2018 38</p>	<p>2.544</p>	<p>3.54</p>
<p>Trivedi C., Cervantes M.J. (2017) Fluid-structure interactions in Francis turbines: A perspective review, Renewable &amp; Sustainable Energy Reviews, Part I, Vol. 68, pp. 87-101. DOI: 10.1016/j.rser.2016.09.121 (WOS:000391899200008)</p>	<p>DOI: 10.1016/j.rser.201 2017 6.09.121</p>	<p>12.11</p>	<p>13.11</p>
<p>Nakkina P.R.; Prakash K. A., Kumar G.S., (2016) Numerical studies on fluid flow characteristics through different configurations of spiral casing, Engineering Applications of Computational Fluid Mechanics, Vol. 10, Issue 1, pp. 297-311. doi: 10.1080/19942060.2016.1149103 (WOS:000379949900005)</p>	<p>doi: 10.1080/1994206 2016 0.2016.1149103</p>	<p>5.8</p>	<p>6.80</p>

<p>Luna-Ramirez A., Campos-Amezcuca A., Dorantes-Gomez O., Mazur-Czerwicz Z., Munoz-Quezada R., (2016) Failure analysis of runner blades in a Francis hydraulic turbine – Case study, Engineering Failure Analysis, Vol. 59, pp. 314-325 DOI 10.1016/j.engfailanal.2015.10.020 (WOS:000366667800024)</p>	<p>DOI 10.1016/j.engfailanal.2015.10.020</p>	<p>2.897</p>	<p>3.90</p>
<p>Koupper C., Poinot T., Gicquel L., Duchaine F., (2014) Compatibility of Characteristic Boundary Conditions with Radial Equilibrium in Turbomachinery Simulations, AIAA Journal, Vol. 52, No. 12 pp. 2829-2839 DOI: 10.2514/1.J052915 (WOS:000345852500016)</p>	<p>DOI: 10.2514/1.J052915</p>	<p>2.108</p>	<p>3.11</p>
<p>Sozen A., Kecel S., Yavuzcan H.G., (2014) The effect of the angle of the wicket gate on turbine efficiency and strength in Francis type turbines, Journal of the Faculty of Engineering and Architecture of Gazi University, Vol. 29, Issue 2, pp: 243-252. (WOS:000339152800004)</p>	<p>2014</p>	<p>0.724</p>	<p>1.72</p>
<p>Hu F.F., Chen T., Wu D.Z. et al. (2013) Computation of stress distribution in a mixed flow pump based on fluid-structure interaction analysis, IOP Conference Series-Materials Science and Engineering, Vol.52, Article Number 022035. DOI: 10.1088/1757-899X/52/2/022035 (WOS:000329430200045)</p>	<p>DOI: 10.1088/1757-899X/52/2/022035</p>	<p>0</p>	<p>1.00</p>

<p>Bosioc A.I., Susan-Resiga R.F., <b>Muntean S.</b>, Tanasa C., (2012) Unsteady Pressure Analysis of a Swirling Flow with Vortex Rope and Axial Water Injection in a Discharge Cone, Journal of Fluids Engineering, Vol. 134, Issue 8, Paper ID 081104 DOI: 10.1115/1.4007074 (WOS:000314759800004)</p>	<p>Dehkharghani A.S., Engstrom F., Aidanpaa J.-O. et al. (2020) Experimental Investigation of a 10MW Prototype Axial Turbine Runner: Vortex Rope Formation and Mitigation, ASME Journal of Fluids Engineering, Vol. 142 Issue 10, Article Number: 101212.DOI: 10.1115/1.4047793 (WOS:000567334100012)</p>	<p>DOI: 10.1115/1.404779</p>	<p>2020 3</p>	<p>2.056</p>	<p>3.06</p>
	<p>Liu Q., An B., Nohmi M. et al. (2020) Active Flow Control of a Pump-Induced Wall-Normal Vortex With Steady Blowing, ASME Journal of Fluids Engineering, Vol. 142, Issue: 8. DOI: 10.1115/1.4046692 (WOS:000543002400002)</p>	<p>DOI: 10.1115/1.404669</p>	<p>2020 2</p>	<p>2.056</p>	<p>3.06</p>
	<p>Sotoudeh N., Maddahian R., Cervantes M. J.. (2020) Investigation of Rotating Vortex Rope formation during load variation in a Francis turbine draft tube, Renewable Energy, Vol. 151, pp. 238-254. DOI: 10.1016/j.renene.2019.11.014 (WOS:000521120700020)</p>	<p>DOI: 10.1016/j.renene.</p>	<p>2020 2019.11.014</p>	<p>6.274</p>	<p>7.27</p>
	<p>Muhirwa A., Cai W.-H., Su W.-T. et al. (2020) A review on remedial attempts to counteract the power generation compromise from draft tubes of hydropower plants, Renewable Energy, Vol. 150, pp. 743-764. DOI: 10.1016/j.renene.2019.12.141 (WOS:000518874500062)</p>	<p>DOI: 10.1016/j.renene.</p>	<p>2020 2019.12.141</p>	<p>6.274</p>	<p>7.27</p>
	<p>Yu A., Zou Z.P., Zhou D. et al. (2020) Investigation of the correlation mechanism between cavitation rope behavior and pressure fluctuations in a hydraulic turbine, Renewable Energy, Vol. 147, pp. 1199-1208 Part: 1. DOI: 10.1016/j.renene.2019.09.096 (WOS:000502880700105)</p>	<p>DOI: 10.1016/j.renene.</p>	<p>2020 2019.09.096</p>	<p>6.274</p>	<p>7.27</p>

<p>Pasche S., Avellan F., Gallaire F., (2019) Optimal Control of Part Load Vortex Rope in Francis Turbines, ASME Journal of Fluids Engineering, Vol. 141, Issue 8, Article Number 081203. DOI: 10.1115/1.4042560 (WOS:000471286100018)</p>	<p>DOI: 10.1115/1.404256 2019 0</p>	<p>2.056</p>	<p>3.06</p>
<p>Yu A., Tang Q.H., Wang X.H. et al. (2019) Investigation of the Pressure Fluctuation Alleviation in a Hydraulic Turbine Runner Modification, Water, Vol. 11, Issue 7, Article Number 1332. DOI: 10.3390/w11071332 (WOS:000480632300017)</p>	<p>DOI: 10.3390/w110713 2019 32</p>	<p>2.544</p>	<p>3.54</p>
<p>Chen Z.M., Baek S.-H., Cho H.Y. et al. (2019) Optimal design of J-groove shape on the suppression of unsteady flow in the Francis turbine draft tube, Journal of Mechanical Science and Technology, Vol. 33, Issue 5, Pages: 2211-2218. DOI: 10.1007/s12206- 019-0423-x (WOS:000467438100024)</p>	<p>DOI: 10.1007/s12206- 2019 019-0423-x</p>	<p>1.345</p>	<p>2.35</p>
<p>Pasche S., Gallaire F., Avellan F. (2019) Origin of the synchronous pressure fluctuations in the draft tube of Francis turbines operating at part load conditions, Journal of Fluids and Structures, Vol. 86, Pages: 13-33. DOI: 10.1016/j.jfluidstructs.2019.01.013 (WOS:000466254900002)</p>	<p>DOI: 10.1016/j.jfluidstr 2019 ucts.2019.01.013</p>	<p>2.84</p>	<p>3.84</p>
<p>Kozak J., Rudolf P., Hudec M. et al. (2019) Numerical and Experimental Investigation of the Cavitating Flow Within Venturi Tube, ASME Journal of Fluids Engineering, Vol. 141, Issue 4, SI, Article Number: 041101. DOI: 10.1115/1.4041729 (WOS:000459420000002)</p>	<p>DOI: 10.1115/1.404172 2019 9</p>	<p>2.056</p>	<p>3.06</p>

<p>Pochyly F., Fialova S., Stefan D., (2019) Effect of spiral vortices on the stability of vortex structures in the diffuser, IOP Conference Series-Earth and Environmental Science, Vol. 240, Article Number: 022052. DOI: 10.1088/1755-1315/240/2/022052 (WOS:000560282600052)</p>	<p>DOI: 10.1088/1755-1315/240/2/022052</p>	0	1.00
<p>Yu A., Zhou D., Chen H.X., (2019) Numerical investigation of the behaviour of the cavitation rope in a Francis turbine with an optimized runner cone, IOP Conference Series-Earth and Environmental Science, Vol. 240, Article Number 022013. DOI: 10.1088/1755-1315/240/2/022013 (WOS:000560282600013)</p>	<p>DOI: 10.1088/1755-1315/240/2/022013</p>	0	1.00
<p>Skripkin S., Tsoy M., Kuibin P., et al. (2019) Swirling flow in a hydraulic turbine discharge cone at different speeds and discharge conditions, Experimental Thermal and Fluid Science, Vol. 100, Pages 349-359. DOI: 10.1016/j.expthermflusci.2018.09.015 (WOS:000449900300027)</p>	<p>DOI: 10.1016/j.expthermflusci.2018.09.015</p>	3.444	4.44
<p>Trivedi C., Gogstad P.J., Dahlhaug O.G., (2018) Investigation of the unsteady pressure pulsations in the prototype Francis turbines - Part 1: Steady state operating conditions, Mechanical systems and signal processing, Vol. 108, pp. 188-202. DOI: 10.1016/j.ymsp.2018.02.007 (WOS:000428481900014)</p>	<p>DOI: 10.1016/j.ymsp.2018.02.007</p>	6.471	7.47

<p>Minh DL, Hsu CM, Huang RF, (2018) Velocity fields and mixing properties of swirling double-concentric jets using two separated circular disks as center bodies, Experimental Thermal and Fluid Science, Vol. 93, pp. 73-85. DOI: 10.1016/j.expthermflusci.2017.12.020. (WOS:000427312400007)</p>	<p>DOI: 10.1016/j.expther mflusci.2017.12.02</p>	<p>2018 0</p>	<p>3.444</p>	<p>4.44</p>
<p>Trivedi C., Agnalt E., Dahlhaug O.G. (2018) Experimental study of a Francis turbine under variable-speed and discharge conditions, Renewable energy, Vol. 119, pp. 447-458. DOI: 10.1016/j.renene.2017.12.040 (WOS:000423649700042)</p>	<p>DOI: 10.1016/j.renene.</p>	<p>2018 2017.12.040</p>	<p>6.274</p>	<p>7.27</p>
<p>Litvinov I., Shtork S., Gorelikov E., Mitryakov A., Hanjalic K., (2018) Unsteady regimes and pressure pulsations in draft tube of a model hydro turbine in a range of off-design conditions, Experimental thermal and fluid science, Vol. 91, pp. 410-422. DOI: 10.1016/j.expthenflusci.2017.10.030 (WOS:000423246800037)</p>	<p>DOI: 10.1016/j.expthen nflusci.2017.10.03</p>	<p>2018 0</p>	<p>3.444</p>	<p>4.44</p>
<p>Yu A., Luo XW., Yang D.D., Zhou J.J., (2018) Experimental and numerical study of ventilation cavitation around a NACA0015 hydrofoil with special emphasis on bubble evolution and air-vapor interactions, Engineering computations, Vol. 35, Issue 3, pp. 1528-1542 DOI: 10.1108/EC-01-2017-0020 (WOS:000434649400021)</p>	<p>DOI: 10.1108/EC- 2018 01-2017-0020</p>	<p>2018 01-2017-0020</p>	<p>1.322</p>	<p>2.32</p>

<p>Goyal R., Gandhi BK., Cervantes MJ., (2018) PIV measurements in Francis turbine - A review and application to transient operations, Renewable &amp; Sustainable Energy Reviews, Vol. 81, pp. 2976-2991, Part 2. DOI: 10.1016/j.rser.2017.06.108 (WOS:000417078200105)</p>	<p>DOI: 10.1016/j.rser.2017 7.06.108</p>	<p>12.11</p>	<p>13.11</p>
<p>Miangani L., Buchmayr M., Darwish M. et al. (2017) A fully coupled OpenFOAM (R) solver for transient incompressible turbulent flows in ALE formulation, Numerical Heat Transfer Part B - Fundamentals, Vol. 71 , Issue 4, Pages 313 - 326. DOI: 10.1080/10407790.2017.1293969 (WOS:000400329800002)</p>	<p>DOI: 2017 10.1080/1040779</p>	<p>1.6</p>	<p>2.60</p>
<p>Trivedi C., Gogstad P.J., Dahlhaug O.G., (2017) Investigation of the unsteady pressure pulsations in the prototype Francis turbines during load variation and startup, Journal of Renewable and Sustainable Energy, Vol. 9 , Issue 6, Article Number 064502. DOI: 10.1063/1.4994884 (WOS:000419000200027)</p>	<p>DOI: 10.1063/1.499488 2017 4</p>	<p>1.575</p>	<p>2.58</p>
<p>Goyal R., Gandhi B.K., Cervantes M.J. (2017) Experimental study of mitigation of a spiral vortex breakdown at high Reynolds number under an adverse pressure gradient, Physics of Fluids, Vol. 29, Issue 10, Article Number 104104. DOI: 10.1063/1.4999123 (WOS:000414227600037)</p>	<p>DOI: 10.1063/1.499912 2017 3</p>	<p>3.514</p>	<p>4.51</p>



<p>Luo X.W., Yu A., Ji B., et al. (2017) Unsteady vortical flow simulation in a Francis turbine with special emphasis on vortex rope behavior and pressure fluctuation alleviation, Part A: Journal of Power and Energy, ISSN 0957-6509, Vol. 231, Issue 3, Pages 215-226, DOI: 10.1177/0957650917692153 (WOS:000400741100005)</p>	<p>DOI: 10.1177/0957650 2017 917692153</p>	<p>1.563</p>	<p>2.56</p>
<p>Goyal R., Cervantes M.J., Gandhi B.K. (2017) Vortex Rope Formation in a High Head Model Francis Turbine, ASME Journal of Fluids Engineering, Vol. 139, Issue 4, Article Number 041102. DOI: 10.1115/1.4035224 (WOS:000395120500002)</p>	<p>DOI: 10.1115/1.403522 2017 4</p>	<p>1.563</p>	<p>2.56</p>
<p>Rajan G.K., Cimbala J.M. (2017) Computational and Theoretical Analyses of the Precessing Vortex Rope in a Simplified Draft Tube of a Scaled Model of a Francis Turbine, ASME Journal of Fluids Engineering, Vol. 139, Issue 2, Article Number 021102. DOI: 10.1115/1.4034693 (WOS:000395119800002)</p>	<p>DOI: 10.1115/1.403469 2016 3</p>	<p>2.056</p>	<p>3.06</p>
<p>Goyal R., Trivedi C., Gandhi B.K., Cervantes M.J., Dahlhaug O.G., (2016) Transient pressure measurements at part load operating condition of a high head model Francis turbine, Sadhana – Academy Proceedings in Engineering Sciences, Vol. 41, Issue 11, pp. 1311-1320. doi: 10.1007/s12046-016-0556-x (WOS:000388729700006)</p>	<p>doi: 10.1007/s120 2016 46-016-0556-x</p>	<p>0.849</p>	<p>1.85</p>

Amiri K., Mulu B., Cervantes M.J., (2016) Experimental Investigation of the Interblade Flow in a Kaplan Runner at Several Operating Points Using Laser Doppler Anemometry, ASME Journal of Fluids Engineering, Vol. 138, Issue 2, Article No. 021106 DOI: 10.1115/1.4031609 (WOS:000367237300006)	DOI: 10.1115/1.40 2016 31609	2.056	3.06
Trivedi C., Cervantes M.J., Dahlhaug O.G., (2016) Numerical Techniques Applied to Hydraulic Turbines: A Perspective Review, Applied Mechanics Reviews, Vol. 68, Issue 1, Article No. 010802. DOI: 10.1115/1.4032681 (WOS:000388740800002)	DOI: 10.1115/1.40 2016 32681	6.733	7.73
Yu A.,Luo X.W., Ji B. (2016) Studies of the Effect of Vortex-Control Grooves on Pressure Oscillations in a Francis Turbine Draft Tube, Conference: ASME-JSME-KSME Joint Fluids Engineering Conference (AJK-FED) Location: Seoul, SOUTH KOREA Date: JUL 26-31, 2015, PROCEEDINGS OF THE ASME/JSME/KSME JOINT FLUIDS ENGINEERING CONFERENCE, 2015, VOL 1A, SYMPOSIA, PT 2 Article Number: V01AT02A009	2016	0	1.00
Yu A.,Luo X.W., Ji B. (2015) Analysis of ventilated cavitation around a cylinder vehicle with nature cavitation using a new simulation method, Science Bulletin, Vol. 60, Issue 21, Pages 1833-1839, DOI: 10.1007/s11434-015-0916-7 (WOS:000364144100004)	DOI: 10.1007/s114 2015 34-015-0916-7	9.511	10.51

<p>Liu X., Luo Y.Y., Karney B.W., Wang, W.Z., (2015) A selected literature review of efficiency improvements in hydraulic turbines, Renewable &amp; Sustainable Energy Reviews, Vol. 51, pp. 18-28. DOI: 10.1016/j.rser.2015.06.02 (WOS:000371000900003)</p>	<p>DOI: 10.1016/j.rse 2015 r.2015.06.02</p>	<p>12.11</p>	<p>13.11</p>
<p>Javadi A., Nilsson H., (2015) Time-accurate Numerical Simulations of Swirling Flow with Rotor-stator Interaction, Flow Turbulence and Combustion, Vol. 95, Issue 4, pp. 755-774. doi: 10.1007/s10494-015-9632-2 (WOS:000364930200007)</p>	<p>doi: 10.1007/s104 2015 94-015-9632-2</p>	<p>2.472</p>	<p>3.47</p>
<p>Tian X.Q., Pan H.C., Hong S.L., Zheng Y., (2015) Improvement of hydro-turbine draft tube efficiency using vortex generator, Advances in Mechanical Engineering, Vol. 7, Issue 7, Paper ID 1687814015595339 doi: 10.1177/1687814015595339 (WOS:000358862700039)</p>	<p>doi: 10.1177/1687814 2015 015595339</p>	<p>1.161</p>	<p>2.16</p>
<p>Trivedi C., Cervantes M.J., Gandhi B.K., Dahlhaug O.G., (2014) Transient Pressure Measurements on a High Head Model Francis Turbine During Emergency Shutdown, Total Load Rejection, and Runaway, ASME Journal of Fluids Engineering, Vol. 136, Issue 12, Paper ID 121107 DOI: 10.1115/1.4027794 (WOS:000344731800007)</p>	<p>DOI: 10.1115/1.40 2014 27794</p>	<p>2.056</p>	<p>3.06</p>
<p>Trivedi C., Cervantes M.J., Bhupendrakumar G., Dahlhaug O.G., (2014) Pressure measurements on a high-head Francis turbine during load acceptance and rejection, Journal of Hydraulic Research, Vol. 52, Issue 2, pp. 283-297, DOI: 10.1080/00221686.2013.854846. (WOS:000335853300011)</p>	<p>DOI: 10.1080/0022168 2014 6.2013.854846</p>	<p>2.098</p>	<p>3.10</p>

	Duquesne P., Maciel Y., Aeschlimann V.; et al. (2014) Power break off in a bulb turbine: wall pressure sensor investigation, IOP Conference Series-Earth and Environmental Science, Vol. 22, Article Number 032014. DOI: 10.1088/1755-1315/22/3/032014 (WOS:000347441900072)	DOI: 10.1088/1755-2014 1315/22/3/032014	0	1.00
	Javadi A., Nilsson H., (2014) Unsteady numerical simulation of the flow in the U9 Kaplan turbine model, IOP Conference Series-Earth and Environmental Science, Vol. 22 , Article Number: 022001. DOI: 10.1088/1755-1315/22/2/022001 (WOS:000347441900035)	DOI: 10.1088/1755-2014 1315/22/2/022001	0	1.00
Susan-Resiga R.F., <b>Muntean S.</b> , Avellan F., Anton I., (2011) Mathematical modeling of swirling flow in hydraulic turbines for the full operating range, Applied Mathematical Modeling, Vol 35, Issue 10, pp. 4759-4773. DOI: 10.1016/j.apm.2011.03.052 (WOS:000292176200007)	Tiwari G., Kumar J., Prasad V., et al. (2020) Utility of CFD in the design and performance analysis of hydraulic turbines – A review, Energy Reports, Vol. 6, pp. 2410-2429. DOI: 10.1016/j.egy.2020.09.004 (WOS:000602738200019)	DOI: 10.1016/j.egy.2020 0.09.004	3.595	4.60
	Shrestha U., Choi Y.-D. (2020) A CFD-Based Shape Design Optimization Process of Fixed Flow Passages in a Francis Hydro Turbine, Processes, Vol. 8, Issue 11, Article Number 1392. DOI: 10.3390/pr8111392 (WOS:000593892200001)	DOI: 10.3390/pr8111392 2020 2	2.753	3.75
	Muhirwa A., Cai W.-H., Su W.-T. et al. (2020) A review on remedial attempts to counteract the power generation compromise from draft tubes of hydropower plants, Renewable Energy, Vol. 150, pp. 743-764. DOI: 10.1016/j.renene.2019.12.141 (WOS:000518874500062)	DOI: 10.1016/j.renene. 2020 2019.12.141	6.274	7.27

<p>Morabito A., de Oliveira e Silva G., Hendrick P. (2019) Deriaz pump-turbine for pumped hydro energy storage and micro applications, Journal of Energy Storage, Vol. 24, Article Number: 100788. DOI: 10.1016/j.est.2019.100788 (WOS:000481671900047)</p>	<p>DOI: 10.1016/j.est.2019 2019 .100788</p>	<p>3.762</p>	<p>4.76</p>
<p>Rudolf P., Urban O., Stefan D. (2019) Construction of a reduced-order dynamic model for prospective swirling flow control in hydraulic turbine draft tube, IOP Conference Series-Earth and Environmental Science, Vol. 240, Article Number 022065. DOI: 10.1088/1755-1315/240/2/022065 (WOS:000560282600065)</p>	<p>DOI: 10.1088/1755- 1315/240/2/0220 2019 65</p>	<p>0</p>	<p>1.00</p>
<p>Nag S., Lee K.Y. (2018) DFIM-Based Variable Speed Operation of Pump-Turbines for Efficiency Improvement, Conference: 10th IFAC Symposium on Control of Power and Energy Systems (CPES) Location: Meiji Univ, Nakano Campus, Tokyo, JAPAN Date: SEP 04-06, 2018, IFAC Vol. 51, Issue 28, Pages: 708-713.</p>	<p>2018</p>	<p>0</p>	<p>1.00</p>
<p>Huang W., Yang K., Guo X., Ma J., Wang J., Li J., (2018) Prediction Method for the Complete Characteristic Curves of a Francis Pump-Turbine, Water, Vol. 10, Issue 2, Article no. 205. DOI: 10.3390/w10020205 (WOS:000426775500115)</p>	<p>DOI: 10.3390/w100202 2018 05</p>	<p>2.544</p>	<p>3.54</p>

<p>Goyal R., Gandhi B.K., Cervantes M.J. (2017) Experimental study of mitigation of a spiral vortex breakdown at high Reynolds number under an adverse pressure gradient, Physics of Fluids, Vol. 29, Issue 10, Article Number 104104. DOI: 10.1063/1.4999123 (WOS:000414227600037)</p>	<p>DOI: 10.1063/1.499912 2017 3</p>	<p>3.514</p>	<p>4.51</p>
<p>Skripkin S.G., Tsoy M.A., Kuibin, P.A. et al. (2017) Study of Pressure Shock Caused by a Vortex Ring Separated From a Vortex Rope in a Draft Tube Model, ASME Journal of Fluids Engineering, Vol. 139, Issue 8, Article Number 081103. DOI: 10.1115/1.4036264 (WOS:000403876900003)</p>	<p>DOI: 10.1115/1.403626 2017 4</p>	<p>2.056</p>	<p>3.06</p>
<p>Decaix J., Mueller A., Favrel A., Avellan F, Munch C. (2017) URANS Models for the Simulation of Full Load Pressure Surge in Francis Turbines Validated by Particle Image Velocimetry, ASME Journal of Fluids Engineering, Vol. 139, Issue 12, Article Number: 121103. DOI: 10.1115/1.4037278 (WOS:000412972200003)</p>	<p>DOI: 10.1115/1.403727 2017 8</p>	<p>2.056</p>	<p>3.06</p>
<p>Kassanos I., Anagnostopoulos J., Papantonis D. (2017) Numerical investigation of draft tube pressure pulsations in a Francis turbine with splitter blades, Journal of Physics Conference Series, Vol. 813, Article Number 012049. DOI: 10.1088/1742-6596/813/1/012049 (WOS:000440372200049)</p>	<p>DOI: 10.1088/1742- 6596/813/1/0120 2017 49</p>	<p>0</p>	<p>1.00</p>

<p>Mueller A., Favrel A., Landry C. et al. (2017) Experimental Hydro-Mechanical Characterization of Full Load Pressure Surge in Francis Turbines, Journal of Physics Conference Series, Vol. 813, Article Number 012018. DOI: 10.1088/1742-6596/813/1/012018 (WOS:000440372200018)</p>	<p>DOI: 10.1088/1742-6596/813/1/012018</p>	<p>0</p>	<p>1.00</p>
<p>Lu S.B., Wei J., Bao H.J. et al. (2017) The dynamic hydropower troubleshooting information based on EMD multi-scale feature entropy extraction, International Journal of Mobile Communications, Vol. 15, Issue6 , Pages: 677-692 . DOI: 10.1504/IJMC.2017.086882 (WOS:000414962600005)</p>	<p>DOI: 10.1504/IJMC.2017.086882</p>	<p>1.328</p>	<p>2.33</p>
<p>Bozic I, (2017) Determination of hydraulic losses in the flow passage between the guide vanes and runner of the Kaplan turbine, Journal of Hydraulic Research, Vol. 55, Issue 3, Pages 349-361 . DOI: 10.1080/00221686.2016.1250831 (WOS:000400245900005)</p>	<p>DOI: 10.1080/00221686.2016.1250831</p>	<p>2.098</p>	<p>3.10</p>
<p>Glavcic Z., Bikic S., Bulatovic R.R., (2017) Optimization of Swirling Flow Energy Parameters on the Velocity Profile after Local Obstacle by Firefly Algorithm, Journal of Applied Fluid Mechanics, Vol. 10, Issue 2, pp. 479-489 DOI: 10.18869/acadpub.jafm.73.238.26150 (WOS:000394331500001)</p>	<p>DOI: 10.18869/acadpub.jafm.73.238.26150</p>	<p>0.689</p>	<p>1.69</p>
<p>Bozic I., Benisek M., (2016) An improved formula for determination of secondary energy losses in the runner of Kaplan turbine, Renewable Energy, Vol. 94, pp. 537-546 DOI: 10.1016/j.renene.2016.03.093 (WOS:000375816700047)</p>	<p>DOI: 10.1016/j.renene.2016.03.093</p>	<p>6.274</p>	<p>7.27</p>

<p>Luo X.-W., Jin B., Tsujimoto Y., (2016), A review of cavitation in hydraulic machinery, Journal of Hydrodynamics, Vol. 28, Issue 3, pp. 335-358 DOI: 10.1016/S1001-6058(16)60638-8 (WOS:000379107000001)</p>	<p>DOI: 10.1016/S1001-6058(16)60638-8 2016 8</p>	<p>2.265</p>	<p>3.27</p>
<p>Ji B., Wang J., Luo X., Miyagawa K., Xiao L.Z., Long X., Tsujimoto Y., (2016) Numerical simulation of cavitation surge and vortical flows in a diffuser with swirling flow, Journal of Mechanical Sciences and Technology, Vol. 30, Issue 6, pp. 2507-2514. DOI: 10.1007/s12206-016-0511-0 (WOS:000377935300010)</p>	<p>DOI: 10.1007/s12206-016-0511-0 2016 06-016-0511-0</p>	<p>1.345</p>	<p>2.35</p>
<p>Nakkina P.R.; Prakash K. A., Kumar G.S., (2016) Numerical studies on fluid flow characteristics through different configurations of spiral casing, Engineering Applications of Computational Fluid Mechanics, Vol. 10, Issue 1, pp. 297-311. doi: 10.1080/19942060.2016.1149103 (WOS:000379949900005)</p>	<p>doi: 10.1080/19942060.2016.1149103 2016 0.2016.1149103</p>	<p>5.8</p>	<p>6.80</p>
<p>Skripkin S., Tsoy M., Shtork S., Hanjalic K., (2016) Comparative analysis of twin vortex ropes in laboratory models of two hydro-turbine draft-tubes, Journal of Hydraulic Research, Vol 54, Issue 4, pp. 450-460 DOI: 10.1080/00221686.2016.1168325 (WOS:000379139000007)</p>	<p>DOI: 10.1080/00221686.2016.1168325 2016 25</p>	<p>2.098</p>	<p>3.10</p>



<p>Lyutov A.E., Chirkov D.V., Skorospelov V.A., Turuk P.A., Cherny S.G (2015) Coupled Multipoint Shape Optimization of Runner and Draft Tube of Hydraulic Turbines, ASME Journal of Fluids Engineering, Vol. 137, Issue 11, Article No: 111302. DOI: 10.1115/1.4030678 (WOS:000362509900010)</p>	<p>DOI: 10.1115/1.40 2015 30678</p>	<p>2.056</p>	<p>3.06</p>
<p>Galvan S., Reggio M., Guibault F., (2015) Numerical Optimization of the Inlet Velocity Profile Ingested by the Conical Draft Tube of a Hydraulic Turbine, ASME Journal of Fluids Engineering, Vol. 137, Issue 7, Article no. 071102. doi: 10.1115/1.4029837 (WOS:000355700200002)</p>	<p>doi: 10.1115/1.402983 2015 7</p>	<p>2.056</p>	<p>3.06</p>
<p>Foroutan H., Yavuzkurt S., (2015) Unsteady Numerical Simulation of Flow in Draft Tube of a Hydroturbine Operating Under Various Conditions Using a Partially Averaged Navier-Stokes Model, ASME Journal of Fluids Engineering, Vol. 137, Issue 6, Article no. 061101. DOI: 10.1115/1.4029632 (WOS:000353966000001)</p>	<p>DOI: 10.1115/1.40 2015 29632</p>	<p>2.056</p>	<p>3.06</p>
<p>Tsoy M.A., Skripkin S.G., Shtork S. I. (2015) Experimental investigation of a twin vortex breakdown on the draft tube models, Conference: 5th International Youth Conference on Energy (IYCE) Location: Pisa, ITALY Date: MAY 27-30, 2015, 2015 5TH INTERNATIONAL YOUTH CONFERENCE ON ENERGY (IYCE). DOI: 10.1109/IYCE.2015.7180821 (WOS:000381549900093)</p>	<p>DOI: 10.1109/IYCE.201 2015 5.7180821</p>	<p>0</p>	<p>1.00</p>

<p>Bistran D.A. (2015) Reconstruction of Perturbed Pressure Field in a Hydraulic Turbine by Reduced Order Modeling Techniques, AIP Conference Proceedings, Vol. 1648, Article Number 050005. DOI: 10.1063/1.4912365 (WOS:000355339700058)</p>	<p>DOI: 10.1063/1.491236 2015 5</p>	<p>0</p>	<p>1.00</p>
<p>Mueller A., Favrel A., Landry C. et al. (2014) On the physical mechanisms governing self-excited pressure surge in Francis turbines, IOP Conference Series-Earth and Environmental Science, Vol. 22, Article Number 032034. DOI: 10.1088/1755-1315/22/3/032034 (WOS:000347441900092)</p>	<p>DOI: 10.1088/1755-1315/22/3/03203 2014 4</p>	<p>0</p>	<p>1.00</p>
<p>Galvan S., Reggio M., Guibault F. et al. (2014) Numerical Analysis of the Turbine 99 Draft Tube Flow Field Provoked by Redesign Inlet Velocity Profiles, IOP Conference Series-Earth and Environmental Science, Vol. 22, Article Number 022021. DOI: 10.1088/1755-1315/22/2/022021 (WOS:000347441900055)</p>	<p>DOI: 10.1088/1755-1315/22/2/02202 2014 1</p>	<p>0</p>	<p>1.00</p>
<p>Coşoiu C.I., Georgescu M.A., Degeratu M. Hlevca D., (2013) Numerical predictions of the flow around a profiled casing equipped with passive flow control devices, Journal of Wind Engineering and Industrial Aerodynamics, Vol 114, pp. 48 – 61. DOI: 10.1016/j.jweia.2012.12.006 (WOS:000315836600006)</p>	<p>DOI: 10.1016/j.jwe 2013 ia.2012.12.006</p>	<p>2.739</p>	<p>3.74</p>

	<p>Wei Q.S., Choi Y.D. (2013) The optimization of j-groove shape in the draft tube of a francis turbine to suppress the draft surge, IOP Conference Series-Materials Science and Engineering, Vol. 52, Article Number 052030. DOI: 10.1088/1757-899X/52/5/052030 (WOS:000329430200128)</p>	<p>DOI: 10.1088/1757-899X/52/5/05203</p>	<p>2013 0</p>	<p>0</p>	<p>1.00</p>
	<p>Foroutan H., Yavuzkurt S. (2013) Analysis and Prevention of Vortex Rope Formation in the Draft Tube Cone of a Hydraulic Turbine, Conference: ASME International Mechanical Engineering Congress and Exposition, Houston, TX Date: NOV 09-15, 2012 VOL 7, PTS A-D Pages: 2167-2177 . (WOS:000350071100244)</p>		<p>2013</p>	<p>0</p>	<p>1.00</p>
<p>Stuparu A., Susan-Resiga R., Anton L.E., <b>Muntean S.</b>, (2011) A new approach in numerical assessment of the cavitation behavior of centrifugal pumps, International Journal of Fluid Machinery and Systems, Vol 4, Issue 1, pp. 104-113. (ISTAGE database)</p>	<p>Bogdanovic-Jovanovic J., Milenkovic D., Stamenkovic Z. et al. (2017) Determination of Averaged Axisymmetric Flow Surfaces and Meridian Streamlines in the Centrifugal Pump using Numerical Simulation Results FACTA UNIVERSITATIS-SERIES MECHANICAL ENGINEERING Vol 15 Issue 3 Pages: 479-493 DOI: 10.22190/FUME170911026B (WOS:000424114700010)</p>	<p>DOI: 10.22190/FUME170911026B</p>	<p>2017 0911026B</p>	<p>0</p>	<p>1.00</p>
	<p>Pei J., Yin T.Y., Yuan S.Q., Wang W.J., Wang J.B., (2017) Cavitation optimization for a centrifugal pump impeller by using orthogonal design of experiment, Chinese Journal of Mechanical Engineering, Vol 30, Issue 1, pp. 103-109. DOI: 10.3901/CJME.2016.1024.125 (WOS:000392314600011)</p>	<p>DOI: 10.3901/CJME.2016.1024.125</p>	<p>2017 16.1024.125</p>	<p>1.824</p>	<p>2.82</p>

	<p>Tao R., Xiao R.F., Wang F.J., (2016) Detached eddy simulations for high speed axial flow fuel pumps with swept and straight blade impellers, Engineering Computations, Vol 33, Issue 8, pp. 2530-2545. DOI: 10.1108/EC-06-2015-0165 (WOS:000386792800015)</p>	<p>DOI: 10.1108/EC-2016 06-2015-0165</p>	<p>1.322</p>	<p>2.32</p>
	<p>Li W.-G., (2016) Modeling Viscous Oil Cavitating Flow in a Centrifugal Pump, ASME Journal of Fluids Engineering, Vol 138, Issue 1, Article no. 011303. DOI: 10.1115/1.4031061 (WOS:000366319900011)</p>	<p>DOI: 10.1115/1.4031061</p>	<p>2.056</p>	<p>3.06</p>
	<p>Iosif A., Sarbu I., (2014) Numerical modeling of cavitation characteristics and sensitivity curves for reversible hydraulic machinery, Engineering Analysis with Boundary Elements, Vol 41, pp. 18-27. DOI: 10.1016/j.enganabound.2013.12.007 (WOS:000333788100003)</p>	<p>DOI: 10.1016/j.enganabound.2013.12.007</p>	<p>2.884</p>	<p>3.88</p>
<p>Petit O., Bosioc A.I., Nilsson H., <b>Muntean S.</b>, Susan-Resiga R., (2011) Unsteady simulations of the flow in a swirl generator using OpenFOAM, International Journal of Fluid Machinery and Systems, Vol 4, Issue 1, pp. 199-208. (JSTAGE database)</p>	<p>Stefan D., Rossi M., Hudec M. et al. (2020) Study of the internal flow field in a pump-as-turbine (PaT): Numerical investigation, overall performance prediction model and velocity vector analysis, Renewable Energy, Vol 156 Pages 158-172 . DOI: 10.1016/j.renene.2020.03.185 (WOS:000540378500013)</p>	<p>DOI: 10.1016/j.renene.2020 2020.03.185</p>	<p>6.274</p>	<p>7.27</p>
	<p>Chandramohan P., Balamurugan P., Dinesh S. (2019) Effect of fluid flow diversion and venturi size on drip irrigation fertilizer feeding system, Flow Measurements and Instrumentation, Vol 65 Pages 250-256 .DOI: 10.1016/j.flowmeasinst.2019.01.015 (WOS:000460831300029)</p>	<p>DOI: 10.1016/j.flowmeasinst.2019.01.015</p>	<p>1.965</p>	<p>2.97</p>

<p>Pochyly F., Fialova S., Stefan D., (2019) Effect of spiral vortices on the stability of vortex structures in the diffuser, IOP Conference Series-Earth and Environmental Science, Vol. 240, Article Number: 022052. DOI: 10.1088/1755-1315/240/2/022052 (WOS:000560282600052)</p>	<p>DOI: 10.1088/1755- 1315/240/2/0220 2019 52</p>	0	1.00
<p>Moallemi N., Brinkerhoff J. R. (2018) Instability and localized turbulence associated with flow through an axisymmetric sudden expansion, International Journal of Heat and Fluid Flow, Vol. 72, Pages 161-173. DOI: 10.1016/j.ijheatfluidflow.2018.06.003 (WOS:000441488400014)</p>	<p>DOI: 10.1016/j.ijheatflu idflow.2018.06.00 2018 3</p>	2.073	3.07
<p>Rudolf P., Litera J., Bolanos G.A.I., Stefan D., (2018) Manipulation of the swirling flow instability in hydraulic turbine diffuser by different methods of water injection, EFM17 - EXPERIMENTAL FLUID MECHANICS 2017, Vol. 180, Article Number 02090. DOI: 10.1051/epjconf/201818002090 (WOS:000454317800091)</p>	<p>DOI: 10.1051/epjconf/2 2018 01818002090</p>	0	1.00
<p>Iviangani L., Buchmayr M., Darwish M. et al. (2017) A fully coupled OpenFOAM (R) solver for transient incompressible turbulent flows in ALE formulation, Numerical Heat Transfer Part B - Fundamentals, Vol. 71 , Issue 4, Pages 313 - 326. DOI: 10.1080/10407790.2017.1293969 (WOS:000400329800002)</p>	<p>DOI: 10.1080/1040779 2017 0.2017.1293969</p>	1.6	2.60

Starikovicius V., Ciegis R., Bugajev A., (2016) On Efficiency Analysis of the OpenFOAM - Based Parallel Solver for Simulation of Heat Transfer in and Around the Electrical Power Cables, Informatica, Vol. 27, Issue 1, pp. 161-178. (WOS:000373315100008)	2016	3.312	4.31
Mat M.H., Badrulhisam N.H., Hanafiah A.Q.; et al. (2015) Characteristics of K3-VEI4 Engine Performance using Swirl Generator, Air Intake Tank and Exhaust Gas Recirculation, International Journal of Automotive and Mechanical Engineering, Vol. 11, Pages: 2484-2494. DOI: 10.15282/ijame.11.2015.28.0209 (WOS:000434554100028)	2015	DOI: 10.15282/ijame.11 .2015.28.0209	1.00
Javadi A., Nilsson H., (2015) Time-accurate Numerical Simulations of Swirling Flow with Rotor-stator Interaction, Flow Turbulence and Combustion, Vol. 95, Issue 4, pp. 755-774. doi: 10.1007/s10494-015-9632-2 (WOS:000364930200007)	2014	doi: 10.1007/s104 94-015-9632-2	3.47
Ciegis R., Starikovicius V., Bugajev A., (2014) On Parallelization of the OpenFOAM – Based Solver for the Heat Transfer in Electrical Power Cables, Euro-Par 2014: Parallel Processing Workshops, PT I Book Series: Lecture Notes in Computer Science Vol. 8805, pp. 1-11. (WOS:000354783500001)	2014	0.402	1.40

<p>Duquesne P., Ciocan G.D., Aeschlimann V., Bombenger A., Deschênes C., (2013) Pressure probe with five embedded flush-mounted sensors: unsteady pressure and velocity measurements in hydraulic turbine model, Experiments in Fluids, Vol 54, pp.1425-1428. DOI: 10.1007/s00348-012-1425-y (WOS:000318153700011)</p>	<p>DOI: 10.1007/s003 2013 48-012-1425-y 2.335</p>	<p>3.34</p>
<p>Park S., Park S.W., Rhee S.H., Lee S.B., Choi J.E., Kang S.H., (2013) Investigation on the wall function implementation for the prediction of ship resistance, International Journal of Naval Architecture and Ocean, Vol 5, Issue 1, pp. 33-46 DOI: 10.3744/JNAOE.2013.5.1.033 (WOS:000316922000003)</p>	<p>DOI: 10.3744/JNAOE.20 2013 13.5.1.033 2.242</p>	<p>3.24</p>
<p>Gagnon J.-M., Aeschlimann V., Houde S., Flemming F., Coulson S., Deschenes C., (2012) Experimental investigation of draft tube inlet velocity field of a propeller turbine, ASME Journal of Fluids Engineering, Vol 34, Issue 10, Paper no. 101102:1-12. DOI: 10.1115/1.4007523. (WOS:000314760800002)</p>	<p>DOI: 10.1115/1.400752 2012 3. 2.056</p>	<p>3.06</p>
<p>Zhang H., Zhang L. (2012) Numerical simulation of cavitating turbulent flow in a high head Francis turbine at part load operation with OpenFOAM INTERNATIONAL CONFERENCE ON ADVANCES IN COMPUTATIONAL MODELING AND SIMULATION Book Series: Procedia Engineering Vol 31 , Pages: 156-165 . DOI: 10.1016/j.proeng.2012.01.1006 (WOS:000314094600026)</p>	<p>DOI: 10.1016/j.proeng. 2012 2012.01.1006 0</p>	<p>1.00</p>

<p><b>Muntean S.</b>, Bosioc I.A., Stanciu R., Tănăsa C., Resiga R., (2011) 3D numerical analysis of a swirling flow generator. Proceedings of the 4th International Meeting on Cavitation and Dynamic Problems in Hydraulic Machinery and Systems, Belgrade, Serbia, pp. 115–125</p>	<p>Mangani L., Buchmayr M., Darwish M. et al. (2017) A fully coupled OpenFOAM (R) solver for transient incompressible turbulent flows in ALE formulation, Numerical Heat Transfer Part B - Fundamentals, Vol. 71 , Issue 4, Pages 313 - 326. DOI: 10.1080/10407790.2017.1293969 (WOS:000400329800002)</p>	<p>DOI: 10.1080/1040779 2017 0.2017.1293969</p>	<p>1.6</p>	<p>2.60</p>
	<p>Javadi A., Nilsson H., (2015) Time-accurate Numerical Simulations of Swirling Flow with Rotor-stator Interaction, Flow Turbulence and Combustion, Vol. 95, Issue 4, pp. 755-774. doi: 10.1007/s10494-015-9632-2 (WOS:000364930200007)</p>	<p>doi: 10.1007/s104 2015 94-015-9632-2</p>	<p>2.472</p>	<p>3.47</p>
<p>Tanasa C., Bosioc A., <b>Muntean S.</b>, Resiga R., (2011) Flow Feedback Control Technique for Vortex Rope Mitigation From Conical Diffuser of Hydraulic Turbines, Proc. Rom. Acad. Ser. A: Math., Phys., Tech. Sci., Inf. Sci., <b>12</b>(2), pp. 125–132.</p>	<p>Fortin M., Houde S., Deschênes C., (2018) A Hydrodynamic Study of a Propeller Turbine During a Transient Runaway Event Initiated at the Best Efficiency Point, ASME Journal of Fluids Engineering ASME, ISSN 0098-2202, Vol. 140, Issue 12, Article no. 121103 DOI: 10.1115/1.4040232 (WOS:000448235800003)</p>	<p>DOI: 10.1115/1.404023 2018 2</p>	<p>2.056</p>	<p>3.06</p>
	<p>Zhang H., Zhang L., (2013) Numerical simulation of cavitating turbulent flow in a Francis turbine with draft tube natural air admission, ADVANCES IN ENERGY SCIENCE AND TECHNOLOGY, PTS 1-4 Book Series: Applied Mechanics and Materials, Vol. 291-294, Pages 1963-1968. DOI: 10.4028/www.scientific.net/AMM.291-294.1963 (WOS:000320478401082)</p>	<p>DOI: 10.4028/www.scie ntific.net/AMM.29 2013 1-294.1963</p>	<p>0</p>	<p>1.00</p>



<p>Tănasă C., Bosioc A.I., <b>Muntean S.</b>, Susan-Resiga R., (2011) Flow-Feedback for Pressure Fluctuation Mitigation and Pressure Recovery Improvement in a conical diffuser with swirl, International Journal of Fluid Machinery and Systems, Vol. 4, Issue1, pp. 47-56. DOI: 10.5293/IJFMS.2011.4.1.047 (JSTAGE database)</p>	<p>Shingai K., Okamoto N., Tamura Y., Tani K., (2014) Long-period pressure pulsation estimated in numerical simulation for excessive flow rate condition of Francis turbine, Journal of Fluids Engineering ASME, ISSN 0098-2202, Vol. 136, Issue 7, Article no 071105, DOI: 10.1115/1.4026584 (WOS:000337045900005)</p>
	<p>Zhang H.M., Zhang L.X. (2013) Numerical simulation of cavitating turbulent flow in a Francis turbine with draft tube natural air admission, Applied Mechanics and Materials, Vol. 291-294 Pages 1963-1968 . DOI: 10.4028/www.scientific.net/AMM.291-294.1963 (WOS:000320478401082)</p>
<p>Stuparu A., Susan-Resiga R., Anton L.E., <b>Muntean S.</b>, (2011) A new approach in numerical assessment of the cavitation behaviour of centrifugal pumps, International Journal of Fluid Machinery and Systems, Vol. 4, No. 1, DOI: 10.5293/IJFMS.2011.4.1.104 pp. 104-113. (JSTAGE database)</p>	<p>Pei J., Yin T., Yuan S., Wang W., Wang J., (2017) Cavitation optimization for a centrifugal pump impeller by using orthogonal design of experiment, Chinese Journal of Mechanical Engineering, Vol. 30, Issue 1, pp. 103-109. doi:10.3901/CJME.2016.1024.125 (WOS:000392314600011)</p>
<p>Dunca G., <b>Muntean S.</b>, Isbasoiu E.C., (2010) Analysis of the flow field into a two stages and double entry storage pump taking into account two geometries of stator blades" IOP Conference Series-Earth and Environmental Science, Vol. 12, Paper No 012016.. ISSN: 1755-1307 DOI: 10.1088/1755-1315/12/1/012016 (WOS: 000325657000016)</p>	<p>Yang B.F., Li, B, Chen H. et al. (2019) Entropy production analysis for the clocking effect between inducer and impeller in a high-speed centrifugal pump, Proceedings of the Institution of Mechanical Engineers Part C-Journal of Mechanical Engineering Science, Vol. 233, Issue 15, Pages 5302-5315. DOI: 10.1177/0954406219843946 (WOS:000474911000011)</p>

<p>DOI: 10.1115/1.402658</p> <p>2014 4</p>	<p>2.056</p>	<p>3.06</p>
<p>DOI: 10.4028/www.scientific.net/AMM.29</p> <p>2013 1-294.1963</p>	<p>0</p>	<p>1.00</p>
<p>doi:10.3901/CJME.2016.1024.125</p> <p>2017 2016.1024.125</p>	<p>1.824</p>	<p>2.82</p>
<p>DOI: 10.1177/0954406</p> <p>2019 219843946</p>	<p>1.386</p>	<p>2.39</p>

<p>Susan-Resiga R.F., <b>Muntean S.</b>, Hasmatuchi V., Anton I., Avellan F., (2010) Analysis and prevention of vortex breakdown in the simplified discharge cone of a Francis turbine, Journal of Fluids Engineering, Vol 132, Issue 5, Article no. 051102. DOI: 10.1115/1.4001486 (WOS:000277744700002)</p>	<p>Ye W.X., Luo X.W., Li Y., (2020) Modified partially averaged Navier-Stokes model for turbulent flow in passages with large curvature, Modern Physics Letters B, Vol. 34, Issue 23, Article Number 2050239. DOI: 10.1142/S0217984920502395 (WOS:000563782100007)</p>	<p>DOI: 10.1142/S0217984 2020 920502395</p>	<p>1.224</p>	<p>2.22</p>
	<p>Nejadali J., Riasi A., (2020) Numerical Study of a Pipe Extension Effect in Draft Tube on Hydraulic Turbine Performance, Journal of Computational Applied Mechanics, Vol. 51, Issue 1, Pages 46-54. (DOI: 10.22059/jcamech.2020.289370.433 (WOS:000585979000005)</p>	<p>DOI: 10.22059/jcamech 2020 .2020.289370.433</p>	<p>0</p>	<p>1.00</p>
	<p>Sotoudeh N., Maddahian R., Cervantes M. J.. (2020) Investigation of Rotating Vortex Rope formation during load variation in a Francis turbine draft tube, Renewable Energy, Vol. 151, pp. 238-254. DOI: 10.1016/j.renene.2019.11.014 (WOS:000521120700020)</p>	<p>DOI: 10.1016/j.renene. 2020 2019.11.014</p>	<p>6.274</p>	<p>7.27</p>
	<p>Muhirwa A., Cai W.-H., Su W.-T. et al. (2020) A review on remedial attempts to counteract the power generation compromise from draft tubes of hydropower plants, Renewable Energy, Vol. 150, pp. 743-764. DOI: 10.1016/j.renene.2019.12.141 (WOS:000518874500062)</p>	<p>DOI: 10.1016/j.renene. 2020 2019.12.141</p>	<p>6.274</p>	<p>7.27</p>
	<p>Favrel A., Pereira J.G. Jr., Mueller A. et al. (2020) Swirl number based transposition of flow-induced mechanical stresses from reduced scale to full-size Francis turbine runners, Journal of Fluids and Structures, Vol. 94, Article Number 102956. DOI: 10.1016/j.jfluidstructs.2020.102956 (WOS:000527941200003)</p>	<p>DOI: 10.1016/j.jfluidstr 2020 ucts.2020.102956</p>	<p>2.84</p>	<p>3.84</p>

<p>Muhirwa A., Cai W.-H., Li F.-C. et al. (2019) Investigation into the outlying swirl instability in the hydro-turbine draft tube under part-load operation, Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, ISSN 0957-6509, Vol. 235, Issue. 1, pp. 139-153, Article Number: 0957650919889796. DOI: 10.1177/0957650919889796 (WOS:000500898300001)</p>	<p>DOI: 10.1177/0957650 2019 919889796</p>	<p>1.563</p>	<p>2.56</p>
<p>Quranta E. (2019) Optimal Rotational Speed of Kaplan and Francis Turbines with Focus on Low-Head Hydropower Applications and Dataset Collection, Journal of Hydraulic Engineering, Vol. 145, Issue 12, Article Number 04019043. DOI: 10.1061/(ASCE)HY.1943-7900.0001643 (WOS:000490134600008)</p>	<p>DOI: 10.1061/(ASCE)HY. 1943- 2019 7900.0001643</p>	<p>1.993</p>	<p>2.99</p>
<p>Altimemy M., Attiya B., Daskiran C. et al. (2019) Mitigation of flow-induced pressure fluctuations in a Francis turbine operating at the design and partial load regimes-LES simulations, International Journal of Heat and Fluid Flow, Vol. 79, Article Number 108444. DOI: 10.1016/j.ijheatfluidflow.2019.108444 (WOS:000489193800005)</p>	<p>DOI: 10.1016/j.ijheatflu idflow.2019.10844 2019 4</p>	<p>2.073</p>	<p>3.07</p>
<p>Szulc P., Machalski A. (2019) The flow deteriorations in course of the partial load operation of the middle specific speed Francis turbine, Open Engineering, Vol. 9, Issue 1, Pages: 260-268. DOI: 10.1515/eng-2019-0035 (WOS:000481622500001)</p>	<p>DOI: 10.1515/eng- 2019 2019-0035</p>	<p>0</p>	<p>1.00</p>

Chen Z.M., Baek S.-H., Cho H.Y. et al. (2019) Optimal design of J-groove shape on the suppression of unsteady flow in the Francis turbine draft tube, Journal of Mechanical Science and Technology, Vol. 33, Issue 5, Pages: 2211-2218. DOI: 10.1007/s12206-019-0423-x (WOS:000467438100024)	DOI: 10.1007/s12206- 2019 019-0423-x	1.345	2.35
Mohammadi M., Hajidavalloo E., Behbahani-Nejad M. (2019) Investigation on Combined Air and Water Injection in Francis Turbine Draft Tube to Reduce Vortex Rope Effects, ASME Journal of Fluids Engineering, Vol. 141, Issue 5, Article no. 051301. DOI: 10.1115/1.4041565 (WOS:000461541600014)	DOI: 10.1115/1.404156 2019 5	2.056	3.06
Pasche S., Gallaire F., Avellan F. (2019) Origin of the synchronous pressure fluctuations in the draft tube of Francis turbines operating at part load conditions, Journal of Fluids and Structures, Vol. 86, Pages: 13-33. DOI: 10.1016/j.jfluidstructs.2019.01.013 (WOS:000466254900002)	DOI: 10.1016/j.jfluidstr 2019 ucts.2019.01.013	2.84	3.84
Pasche, S.; Gallaire, F.; Avellan, F., (2018) Predictive control of spiral vortex breakdown, Journal of Fluid Mechanics, Vol. 842, pp. 58-86: DOI: 10.1017/jfm.2018.124 (WOS:000426754400004)	DOI: 10.1017/jfm.2018. 2018 124	3.333	4.33
Zhang H., Chen D., Xu B., Patelli E., Tolo S. (2018) Dynamic analysis of a pumped-storage hydropower plant with random power load, Mechanical systems and signal processing, Vol. 100, pp. 524-533. DOI: 10.1016/j.ymsp.2017.07.052 (WOS:000413612400029)	DOI: 10.1016/j.ymsp.2 2018 017.07.052	6.471	7.47

<p>Chen T., Zheng XH, Zhang YN, Li SC (2018) Influence of upstream disturbance on the draft-tube flow of Francis turbine under part-load conditions, Journal of Hydrodynamics, Vol. 30, Issue 1, pp.131-139. DOI: 10.1007/s42241-018-0014-9 (WOS:000427920500014)</p>	<p>DOI: 10.1007/s42241- 2018 018-0014-9</p>	<p>2.265</p>	<p>3.27</p>
<p>Rajan G.K., Cimbala J.M. (2017) Computational and Theoretical Analyses of the Precessing Vortex Rope in a Simplified Draft Tube of a Scaled Model of a Francis Turbine, ASME Journal of Fluids Engineering, Vol. 139, Issue 2, Article Number 021102. DOI: 10.1115/1.4034693 (WOS:000395119800002)</p>	<p>DOI: 10.1115/1.403469 2017 3</p>	<p>2.056</p>	<p>3.06</p>
<p>Javadi A., Nilsson H., (2017) Active flow control of the vortex rope and pressure pulsations in a swirl generator, Engineering Applications of Computational Fluid Mechanics, Vol. 11, Issue 1, pp: 30-41. DOI: 10.1080/19942060.2016.1235515 (WOS:000386338500003)</p>	<p>DOI: 10.1080/1994206 2017 0.2016.1235515</p>	<p>5.8</p>	<p>6.80</p>
<p>Luo X.W., Yu A., Ji B., et al. (2017) Unsteady vortical flow simulation in a Francis turbine with special emphasis on vortex rope behavior and pressure fluctuation alleviation, Part A: Journal of Power and Energy, ISSN 0957-6509, Vol. 231, Issue 3, Pages 215-226, DOI: 10.1177/0957650917692153 (WOS:000400741100005)</p>	<p>DOI: 10.1177/0957650 2017 917692153</p>	<p>1.563</p>	<p>2.56</p>
<p>Luo X.-W., Jin B., Tsujimoto Y., (2016), A review of cavitation in hydraulic machinery, Journal of Hydrodynamics, Vol. 28, Issue 3, pp. 335-358. doi: 10.1016/S1001-6058(16)60638-8 (WOS:000379107000001)</p>	<p>doi: 10.1016/S1001- 2016 6058(16)60638-8</p>	<p>2.265</p>	<p>3.27</p>

<p>Foroutan H., Yavuzkurt S., (2016) An axisymmetric model for draft tube flow at partial load, Journal of Hydrodynamics, Vol. 28, Issue 2, pp. 195-205 doi: 10.1016/S1001-6058(16)60621-2 (WOS:000375492600003)</p>	<p>doi: 10.1016/S1001- 2016 6058(16)60621-2</p>	<p>2.265</p>	<p>3.27</p>
<p>Galvan S., Reggio M., Guibault F., (2015) Numerical Optimization of the Inlet Velocity Profile Ingested by the Conical Draft Tube of a Hydraulic Turbine, ASME Journal of Fluids Engineering, Vol. 137, Issue 7, Article no. 071102. doi: 10.1115/1.4029837 (WOS:000355700200002)</p>	<p>doi: 10.1115/1.402983 2015 7</p>	<p>2.056</p>	<p>3.06</p>
<p>Foroutan H., Yavuzkurt S., (2015) Unsteady Numerical Simulation of Flow in Draft Tube of a Hydroturbine Operating Under Various Conditions Using a Partially Averaged Navier-Stokes Model, ASME Journal of Fluids Engineering, Vol. 137, Issue 6, Article no. 061101. DOI: 10.1115/1.4029632 (WOS:000353966000001)</p>	<p>DOI: 10.1115/1.40 2015 29632</p>	<p>2.056</p>	<p>3.06</p>
<p>Luginsland T., Kleiser L., (2015) Effects of boundary conditions on vortex breakdown in compressible swirling jet flow simulations, Computers &amp; Fluids, Vol. 109, pp. 72-84 DOI: 10.1016/j.compfluid.2014.12.012 (WOS:000350079400007)</p>	<p>DOI: 10.1016/j.co mpfluid.2014.12.0 2015 12</p>	<p>2.399</p>	<p>3.40</p>

<p>David S., Pavel Z., Martin H. et al. (2015)            Numerical and experimental investigation            of swirling flow in a conical diffuser EFM14 -            EXPERIMENTAL FLUID MECHANICS 2014            Book Series: EPJ Web of Conferences, Vol            ,92 Article Number 02085. DOI:            10.1051/epjconf/20159202085            (WOS:000358249900087)</p>	<p>DOI:            10.1051/epjconf/2            2015 0159202085</p>	<p>0</p>	<p>1.00</p>
<p>Foroutan H., Yavuzkurt S., (2014) Flow in            the Simplified Draft Tube of a Francis            Turbine Operating at Partial Load—Part 1:            Simulation of the Vortex Rope, Journal of            Applied Mechanics ASME, Vol. 81, Issue 6,            Paper No. 061010 doi:10.1115/1.4026817            (WOS:000338201600010)</p>	<p>doi:10.1115/1.402            2014 6817</p>	<p>2.671</p>	<p>3.67</p>
<p>Foroutan H., Yavuzkurt S., (2014) Flow in            the Simplified Draft Tube of a Francis            Turbine Operating at Partial Load—Part 2:            Control of the Vortex Rope, Journal of            Applied Mechanics ASME, Vol. 81, Issue 6,            Paper No. 061011 doi:10.1115/1.4026818            (WOS:000338201600011)</p>	<p>doi:10.1115/1.402            2014 6818</p>	<p>2.671</p>	<p>3.67</p>
<p>Duquesne P., Fraser R., Maciel Y. et al.            (2014) Draft tube flow phenomena across            the bulb turbine hill chart, IOP Conference            Series-Earth and Environmental Science,            Vol. 22, Article Number 032003. DOI:            10.1088/1755-1315/22/3/032003            (WOS:000347441900061)</p>	<p>DOI:            10.1088/1755-            1315/22/3/03200            2014 3</p>	<p>0</p>	<p>1.00</p>

<p>Javadi A., Nilsson H., (2014) Unsteady numerical simulation of the flow in the U9 Kaplan turbine model, IOP Conference Series-Earth and Environmental Science, Vol. 22 , Article Number: 022001. DOI: 10.1088/1755-1315/22/2/022001 (WOS:000347441900035)</p>	<p>DOI: 10.1088/1755-1315/22/2/02200</p> <p>2014 1</p>	<p>0</p>	<p>1.00</p>
<p>Wei Q.S., Choi Y.D., Zhu B.S. (2013) Application of J-Groove to the suppression of swirl flow in the draft tube of a Francis hydro turbine, IOP Conference Series-Earth and Environmental Science, Vol. 15, Article Number 022017. DOI: 10.1088/1755-1315/15/2/022017 (WOS:000324782300024)</p>	<p>DOI: 10.1088/1755-1315/15/2/02201</p> <p>2013 7</p>	<p>0</p>	<p>1.00</p>
<p>Turkmenoglu V., (2013) The vortex effect of Francis turbine in electric power generation, Turkish Journal of Electrical Engineering and Computer Science, Vol 21, Issue 1, pp. 26-37. DOI: 10.3906/elk-1105-45 (WOS:000322742800002)</p>	<p>DOI: 10.3906/elk-1105-45</p> <p>2013 1105-45</p>	<p>0.682</p>	<p>1.68</p>
<p>Foroutan H., Yavuzkurt S. (2013) Simulation of flow in a simplified draft tube: turbulence closure considerations, IOP Conference Series-Earth and Environmental Science, Vol. 15, Article Number 022020. DOI: 10.1088/1755-1315/15/2/022020 (WOS:000324782300027)</p>	<p>DOI: 10.1088/1755-1315/15/2/02202</p> <p>2013 0</p>	<p>0</p>	<p>1.00</p>
<p>Foroutan H., Yavuzkurt S. (2013) Analysis and Prevention of Vortex Rope Formation in the Draft Tube Cone of a Hydraulic Turbine, Conference: ASME International Mechanical Engineering Congress and Exposition, Houston, TX Date: NOV 09-15, 2012 VOL 7, PTS A-D Pages: 2167-2177 . (WOS:000350071100244)</p>	<p>2013</p>	<p>0</p>	<p>1.00</p>



<p>Kuibin P.A., Okulov V.L., Susan-Resiga R., <b>Muntean S.</b>, (2010) Validation of mathematical models for predicting the swirling flow and the vortex rope in a Francis turbine operated at partial discharge, IoP Conf. Ser.: Earth and Env. Sci., Vol 12, 2010, 012051. (WOS: 000325657000051)</p>	<p>Qian Z.D., Zheng B., Xuai W.X., Lee Y.H., (2010) Analysis of pressure oscillations in a Francis hydraulic turbine with misaligned guide vanes, Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, ISSN 0957-6509, Vol. 224, No. 1, pp. 139-152, doi: 10.1243/09576509JPE736 (WOS:000275649500013)</p>		<p>doi: 10.1243/0957650 2010 9JPE736</p>	<p>1.563</p>	<p>2.56</p>
	<p>Luo X., Yu A., Yu W. et al. (2019) Pressure oscillation suppression by air admission in a Francis turbine draft tube, IOP Conference Series-Earth and Environmental Science, Vol. 240, Article Number 022008. DOI: 10.1088/1755-1315/240/2/022008 (WOS:000560282600008)</p>	<p>2019</p>	<p>DOI: 10.1088/1755- 1315/240/2/0220 08</p>	<p>0</p>	<p>1.00</p>
	<p>Goyal R., Gandhi B.K., Cervantes M.J. (2017) Experimental study of mitigation of a spiral vortex breakdown at high Reynolds number under an adverse pressure gradient, Physics of Fluids, Vol. 29, Issue 10, Article Number 104104. DOI: 10.1063/1.4999123 (WOS:000414227600037)</p>	<p>2017</p>	<p>DOI: 10.1063/1.499912 3</p>	<p>3.514</p>	<p>4.51</p>
	<p>Pasche S., Avellan F., Gallaire F., (2017) Part Load Vortex Rope as a Global Unstable Mode, ASME Journal of Fluids Engineering, Vol. 139, Issue 5, Article Number 051102. DOI: 10.1115/1.4035640 (WOS:000399096200002)</p>	<p>2017</p>	<p>DOI: 10.1115/1.403 5640</p>	<p>2.056</p>	<p>3.06</p>

<p>Mueller A., Favrel A., Landry C. et al. (2014) On the physical mechanisms governing self-excited pressure surge in Francis turbines, IOP Conference Series-Earth and Environmental Science, Vol. 22, Article Number 032034. DOI: 10.1088/1755-1315/22/3/032034 (WOS:000347441900092)</p>	<p>DOI: 10.1088/1755-1315/22/3/03203</p> <p>2014 4</p>	<p>0</p>	<p>1.00</p>
<p>Su W.-T., Li X.-B., Li F.-C., Wei X.-Z., Han W.-F., Liu S.-H., (2014) Experimental investigation on the characteristics of hydrodynamic stabilities in Francis hydroturbine models, Advances in Mechanical Engineering, Paper ID 486821 doi: 10.1155/2014/486821 (WOS:000333842900001)</p>	<p>doi: 10.1155/2014/486</p> <p>2014 821</p>	<p>1.161</p>	<p>2.16</p>
<p>Su W.-T., Li X.-B., Li F.-C., Wei X.-Z., Liu J.T., Wu Y.L., (2014) On the Flow Instabilities and Turbulent Kinetic Energy of Large-Scale Francis Hydroturbine Model at Low Flow Rate Conditions, Advances in Mechanical Engineering, Paper ID 786891 doi: 10.1155/2014/786891 ( WOS:000339771100001)</p>	<p>doi: 10.1155/2014/786</p> <p>2014 891</p>	<p>1.161</p>	<p>2.16</p>
<p>Gutierrez S., Vega L., (2013) On the stability of self-similar solutions of 1D cubic Schrodinger equations, Mathematische Annalen, Vol 356, Issue 1, pp. 259-300. DOI: 10.1007/s00208-012-0847-4 (WOS:000317143200012)</p>	<p>DOI: 10.1007/s00208-</p> <p>2013 012-0847-4</p>	<p>1.136</p>	<p>2.14</p>
<p>Bistran D.A. (2013) Parallel Processing Numerical Method for Confined Vortex Dynamics and Applications, AIP Conference Proceedings, Vol. 1558 Pages 379-382 . DOI: 10.1063/1.4825503 (WOS:000331472800091)</p>	<p>DOI: 10.1063/1.482550</p> <p>2012 3</p>	<p>0</p>	<p>1.00</p>

	<p>Topor M., Bistriean D.A. (2012) Localization of the Most Amplified Perturbation in a Vortex Rope Located in Francis Turbine at Partial Discharge, AIP Conference Proceedings, Vol. 1494 Pages 1047-1053 . DOI: 10.1063/1.4765617 (WOS:000312264400156)</p>	<p>DOI: 10.1063/1.476561 2012 7</p>	<p>0</p>	<p>1.00</p>
	<p>Houde S., Iliescu M.S., Fraser R. et al. (2012) Experimental and Numerical Analysis of the Cavitating Part Load Vortex Dynamics of Low-Head Hydraulic Turbines, FLUID MEASUREMENTS AND INSTRUMENTATION CAVITATION AND MULTIPHASE FLOW ADVANCES IN FLUIDS ENGINEERING EDUCATION MICROFLUIDICS, VOL 2 Pages: 171-182 . DOI: 10.1115/AJK2011-33006 (WOS:000308615600023)</p>	<p>DOI: 10.1115/AJK2011- 2012 33006</p>	<p>0</p>	<p>1.00</p>
<p>Frunzăverde D., <b>Muntean S.</b>, Mărginean G., Câmpian V., Marșavina L., Terzi R., Șerban V., (2010) Failure analysis of a Francis turbine runner, IoP Conf. Ser.: Earth and Env. Sci., Vol 12, Paper no. 012115 DOI: 10.1088/1755-1315/12/1/012115 (WOS:000325657000115)</p>	<p>Soltani D.A., Engstrom F., Aidanpaa J.-O. et al. (2020) An Indirect Measurement Methodology to Identify Load Fluctuations on Axial Turbine Runner Blades, Sensors, Vol. 20, Issue 24, Article Number 7220. DOI: 10.3390/s20247220 (WOS:000603243400001)</p>	<p>DOI: 10.3390/s2024722 2020 0</p>	<p>3.275</p>	<p>4.28</p>
	<p>Bosic A.I., Tanasa C., (2020) Experimental study of swirling flow from conical diffusers using the water jet control method, Renewable Energy, Vol. 152, pp. 385-398. DOI: 10.1016/j.renene.2020.01.080 (WOS:000536949600033)</p>	<p>DOI: 10.1016/j.renene. 2020 2020.01.080</p>	<p>6.274</p>	<p>7.27</p>
	<p>Zhou X., Shi C.Z., Miyagawa K. et al. (2020) Investigation of Pressure Fluctuation and Pulsating Hydraulic Axial Thrust in Francis Turbines, Energies, Vol. 13, Issue 7, Article Number 1734. DOI: 10.3390/en13071734 (WOS:000537688400203)</p>	<p>DOI: 10.3390/en13071 2020 734</p>	<p>2.702</p>	<p>3.70</p>

<p>Dehkharghani A.S., Engstrom F., Aidanpaa J.-O. et al. (2020) Experimental Investigation of a 10MW Prototype Axial Turbine Runner: Vortex Rope Formation and Mitigation, ASME Journal of Fluids Engineering, Vol. 142 Issue 10, Article Number: 101212.DOI: 10.1115/1.4047793 (WOS:000567334100012)</p>	<p>DOI: 10.1115/1.404779 2020 3</p>	<p>2.056</p>	<p>3.06</p>
<p>Georgievskaia E., (2019) Hydraulic turbines lifetime in terms of fracture mechanics, Conference: 22nd European Conference on Fracture (ECF) - Loading and Environmental Effects on Structural Integrity Location: Belgrade, SERBIA Date: AUG 26-31, 2018, Sponsor(s): European Struct Integr Soc; Soc Struct Integr &amp; Life, Engineering Failure Analysis, Vol. 105, pp. 1296-1305. DOI: 10.1016/j.engfailanal.2019.08.003 (WOS:000496188200098)</p>	<p>DOI: 10.1016/j.engfaila 2019 nal.2019.08.003</p>	<p>2.897</p>	<p>3.90</p>
<p>Unterluggauer J., Maly A., Doujak E. (2019) Investigation on the Impact of Air Admission in a Prototype Francis Turbine at Low-Load Operation, Energies, Vol. 12, Issue 15, Article Number 2893. DOI: 10.3390/en12152893 (WOS:000482174800053)</p>	<p>DOI: 10.3390/en12152 2019 893</p>	<p>2.702</p>	<p>3.70</p>
<p>Presas A., Luo Y.Y, Wang Z.W. et al. (2019) Fatigue life estimation of Francis turbines based on experimental strain measurements: Review of the actual data and future trends, Renewable &amp; Sustainable Energy Reviews, Vol. 102, pp. 96-110. DOI: 10.1016/j.rser.2018.12.001 (WOS:000455404000009)</p>	<p>DOI: 10.1016/j.rser.201 2019 8.12.001</p>	<p>12.11</p>	<p>13.11</p>

<p>Stefan D., Rudolf P., Hudec M. et al. (2019) Experimental investigation of vortex ring formation as a consequence of spiral vortex re-connection, IOP Conference Series-Earth and Environmental Science, Vol. 405, Article Number 012033. DOI: 10.1088/1755-1315/405/1/012033 (WOS:000562376700033)</p>	<p>DOI: 10.1088/1755-1315/405/1/012033</p>	<p>2019 33</p>	<p>0</p>	<p>1.00</p>
<p>Guo W., Zhu D., (2018) A Review of the Transient Process and Control for a Hydropower Station with a Super Long Headrace Tunnel, Energies, Vol. 11, Issue 11, Article Number: 2994. DOI: 10.3390/en11112994 (WOS:000451814000132)</p>	<p>DOI: 10.3390/en11112994</p>	<p>2018 994</p>	<p>2.702</p>	<p>3.70</p>
<p>Boukani HH., Viens M., Tahan S-A., Gagnon M., (2018) Case study on the integrity and nondestructive inspection of flux-cored arc welded joints of Francis turbine runners, International Journal of Advanced Manufacturing Tehnology, Vol 98, Issue 5-8, pp. 2201-2211. DOI: 10.1007/s00170-018-2139-y (WOS:000442690500078)</p>	<p>DOI: 10.1007/s00170-018-2139-y</p>	<p>2018 018-2139-y</p>	<p>2.633</p>	<p>3.63</p>
<p>Goyal R., Gandhi B.K., (2018) Review of hydrodynamics instabilities in Francis turbine during off-design and transient operation, Renewable Energy, 116, 697-709, Part A. DOI: 10.1016/j.renene.2017.10.012 (WOS:000416188200060)</p>	<p>DOI: 10.1016/j.renene.2017.10.012</p>	<p>2018 2017.10.012</p>	<p>6.274</p>	<p>7.27</p>
<p>Zhang M., Valentin D., Valero C., Egusquiza M., Zhao WQ., (2018) Numerical Study on the Dynamic Behavior of a Francis Turbine Runner Model with a Crack, Energies, Vol. 11, Issue, 7, Article No. 1630. DOI: 10.3390/en11071630 (WOS:000441830500014)</p>	<p>DOI: 10.3390/en11071630</p>	<p>2018 630</p>	<p>2.702</p>	<p>3.70</p>

<p>Georgievskaia E., (2018) Justification of the hydraulic turbines lifetime from the standpoint of the fracture mechanics, Conference: 22nd European Conference on Fracture (ECF) - Loading and Environmental Effects on Structural Integrity, Belgrade, SERBIA AUG 26-31, 2018, ECF22 - LOADING AND ENVIRONMENTAL EFFECTS ON STRUCTURAL INTEGRITY, Procedia Structural Integrity, Vol. 13, Pages 971. - 975 DOI: 10.1016/j.prostr.2018.12.181 (WOS:000459860900158)</p>	<p>DOI: 10.1016/j.prostr.2018.12.181</p>	<p>0</p>	<p>1.00</p>
<p>Thakur R., Sethi M., Khurana S. (2018) Impact of Sand Erosion on Hydroturbines: A Case Study of Hydropower Plant in Himachal Pradesh, India, Advances in Intelligent Systems and Computing, Vol. 624, Pages: 1-12 . DOI: 10.1007/978-981-10-5903-2_1 (WOS:000553697500001)</p>	<p>DOI: 10.1007/978-2018.981-10-5903-2_1</p>	<p>0</p>	<p>1.00</p>
<p>Trivedi C., (2017) A review on fluid structure interaction in hydraulic turbines: A focus on hydrodynamic damping, Engineering Failure Analysis, Vol. 77, Pages 1-22. DOI: 10.1016/j.engfailanal.2017.02.021 (WOS:000399625300001)</p>	<p>DOI: 10.1016/j.engfailanal.2017.02.021</p>	<p>2.897</p>	<p>3.90</p>
<p>Trivedi C., Cervantes M.J. (2017) Fluid-structure interactions in Francis turbines: A perspective review, Renewable &amp; Sustainable Energy Reviews, Part I, Vol. 68, pp. 87-101. DOI: 10.1016/j.rser.2016.09.121 (WOS:000391899200008)</p>	<p>DOI: 10.1016/j.rser.2017.06.09.121</p>	<p>12.11</p>	<p>13.11</p>

<p>Trivedi C., Cervantes M.J., Dahlhaug O.G., (2016) Numerical Techniques Applied to Hydraulic Turbines: A Perspective Review, Applied Mechanics Reviews, Vol. 68, Issue 1, Article No. 010802. DOI: 10.1115/1.4032681 (WOS:000388740800002)</p>	<p>DOI: 10.1115/1.4032681 2016 32681</p>	<p>6.733</p>	<p>7.73</p>
<p>Liu X., Luo Y.Y., Wang Z.W., (2016) A review on fatigue damage mechanism in hydro turbines, Renewable &amp; Sustainable Energy Reviews, Vol. 54, pp. 1-14. DOI: 10.1016/j.rser.2015.09.025 (WOS:000367758200001)</p>	<p>DOI: 10.1016/j.rser.2015.09.025 2016 5.09.025</p>	<p>12.11</p>	<p>13.11</p>
<p>Luna-Ramirez A., Campos-Amezcuca A., Dorantes-Gomez O., Mazur-Czerwicz Z., Munoz-Quezada R., (2016) Failure analysis of runner blades in a Francis hydraulic turbine – Case study, Engineering Failure Analysis, Vol. 59, pp. 314-325 DOI 10.1016/j.engfailanal.2015.10.020 (WOS:000366667800024)</p>	<p>DOI 10.1016/j.engfailanal.2015.10.020 2016 nal.2015.10.020</p>	<p>2.897</p>	<p>3.90</p>
<p>Li Y., Weng H., Cheng J.; et al. (2015) Performance Analysis for Francis Hydraulic Turbine based on Normalized Operating Condition and its Application, Chemical Engineering Transactions, Vol. 46, Pages 1135-1140 DOI: 10.3303/CET1546190 (WOS:000378851900190)</p>	<p>DOI: 10.3303/CET1546190 2015 190</p>	<p>0</p>	<p>1.00</p>
<p>Carpinteri A., Ronchei C., Scorza, D., Vantadori S., (2015) Fracture mechanics based approach to fatigue analysis of welded joints, Engineering Failure Analysis, Vol. 49, pp. 67-78 DOI: 10.1016/j.engfailanal.2014.12.021 (WOS:000349448900007)</p>	<p>DOI: 10.1016/j.engfailanal.2014.12.021 2015 nal.2014.12.021</p>	<p>2.897</p>	<p>3.90</p>

<p>Huang X., Chamberland-Lauzon J., Oram C. et al. (2014) Fatigue analyses of the prototype Francis runners based on site measurements and simulations, IOP Conference Series-Earth and Environmental Science, Vol. 22 , Article Number 012014. DOI: 10.1088/1755-1315/22/1/012014 (WOS:000347441900014)</p>	<p>DOI: 10.1088/1755-1315/22/1/012014 2014 4</p>	<p>0</p>	<p>1.00</p>
<p>Trudel A., Sabourin M. (2014) Metallurgical and fatigue assessments of welds in cast welded hydraulic turbine runners, IOP Conference Series-Earth and Environmental Science, Vol. 22, Article Number: 012015. DOI: 10.1088/1755-1315/22/1/012015 (WOS:000347441900015)</p>	<p>DOI: 10.1088/1755-1315/22/1/012015 2014 5</p>	<p>0</p>	<p>1.00</p>
<p>Dorji U., Ghomashchi R., (2014) Hydro turbine failure mechanisms: An overview, Engineering Failure Analysis, Vol. 44, Issue 9, pp. 136-147. DOI: 10.1016/j.engfailanal.2014.04.013 (WOS:000341352800012)</p>	<p>DOI: 10.1016/j.engfailanal.2014.04.013 2014</p>	<p>2.897</p>	<p>3.90</p>
<p>Vandatori S., Carpinteri A., Scorza D., (2013) Simplified analysis of fracture behaviour of a Francis hydraulic turbine runner blade, Fatigue and Fracture Engineering Materials &amp; Structures, Vol 36, Issue 7, pp. 679 – 688 DOI: 10.1111/ffe.12036 (WOS:000328219700011)</p>	<p>DOI: 10.1111/ffe.12036 2013</p>	<p>3.031</p>	<p>4.03</p>
<p>Trivedi C., Gandhi B., Cervantes M.J., (2013) Effect of transients on Francis turbine runner life: a review, Journal of Hydraulic Research, Vol 51, Issue 2, pp. 121-132. DOI: 10.1080/00221686.2012.732971 (WOS:000317911300002)</p>	<p>DOI: 10.1080/00221686.2012.732971 2013</p>	<p>2.098</p>	<p>3.10</p>



	Cheng G., Wei S., Wen D.W. et al. (2013) The Welding Residual Stress Test Techniques for the Easily Crack Region of Francis Runners, Proceedings of the 35th IAHR Wold Congress, VOLS I AND II Pages: 4037-4042 (WOS:000343761505028)	2013	0	1.00
Bosioc A.I., Tănasă C., <b>Muntean S.</b> , Susan-Resiga R., (2010) Unsteady Pressure Measurements and Numerical Investigation of the Jet Control Method in a Conical Diffuser with Swirling Flow, IoP Conf. Ser.: Earth and Env. Sci., Vol 12, Paper no. 012017 DOI: 10.1088/1755-1315/12/1/012017 (WOS:000325657000017)	Yaseen Z.M., Ameen A.M.S., Aldlemy M.S. et al. (2020) State-of-the Art-Powerhouse, Dam Structure, and Turbine Operation and Vibrations, Sustainability, Vol. 12, Issue 4, Article Number 1676. DOI: 10.3390/su12041676 (WOS:000522460200394)	DOI: 10.3390/su120 2020 41676	2.576	3.58
	Yang J., Hu QJ., Wang ZW., Ding JH., Jiang XY., (2018) Effects of inlet cavitation on swirling flow in draft-tube cone, Engineering computations, Vol. 35 Issue 4 pp. 1694-1705. DOI: 10.1108/EC-08-2017- 0313 (WOS:000439459700006)	DOI: 10.1108/EC- 2018 08-2017-0313	1.322	2.32
	Valero C., Egusquiza M., Egusquiza E., Presas A., Valentin D., Bossio M., (2018) Extension of Operating Range in Pump- Turbines. Influence of Head and Load, Energies, Vol. 10, Issue 12, Article no. 2178 DOI: 10.3390/en10122178 (WOS:000423156900249)	DOI: 10.3390/en10122 2018 178	2.702	3.70
	Chirkov D., Scherbakov P., Cherny S. et al. (2016) Mitigation of self-excited oscillations at full load: CFD analysis of air admission and effects of runner design IOP Conference Series-Earth and Environmental Science Vol. 49, Article Number 062025. DOI: 10.1088/1755-1315/49/6/062025 (WOS:000400156200084)	DOI: 10.1088/1755- 1315/49/6/06202 2015 5	0	1.00

	<p>Cerantola D.J., Birk A.M., (2015) Experimental Validation of Numerically Optimized Short Annular Diffusers, ASME Journal of Engineering for Gas Turbines and Power, Vol. 137, Issue 5, Article No. 052604. doi: 10.1115/1.4028679 (WOS:000352858700019)</p>	<p>doi: 10.1115/1.402867</p>	<p>2015 9</p> <p>1.804</p>	<p>2.80</p>
	<p>Turkmenoglu V., (2013) The vortex effect of Francis turbine in electric power generation, Turkish Journal of Electrical Engineering and Computer Science, Vol 21, Issue 1, pp. 26-37. DOI: 10.3906/elk-1105-45 (WOS:000322742800002)</p>	<p>DOI: 10.3906/elk-1105-45</p>	<p>2013 1105-45</p> <p>0.682</p>	<p>1.68</p>
	<p>Zhang H.M., Zhang L.X. (2013) Numerical simulation of cavitating turbulent flow in a Francis turbine with draft tube natural air admission, Applied Mechanics and Materials, Vol. 291-294 Pages 1963-1968 . DOI: 10.4028/www.scientific.net/AMM.291-294.1963 (WOS:000320478401082)</p>	<p>DOI: 10.4028/www.scientific.net/AMM.291-294.1963</p>	<p>2013 1-294.1963</p> <p>0</p>	<p>1.00</p>
<p>Bosioc A.I., Tanasa C., <b>Muntean S.</b>, Susan-Resiga R., (2010) Pressure recovery improvement in a conical diffuser with swirling flow using water jet injection, Proceedings of the Romanian Academy Series A: Mathematics, Physics, Technical Sciences, Information Sciences, Vol. 11, No 3, pp. 245-252. (WOS:000208624600008)</p>	<p>Altimemy M., Attiya B., Daskiran C. et al. (2019) Mitigation of flow-induced pressure fluctuations in a Francis turbine operating at the design and partial load regimes-LES simulations, International Journal of Heat and Fluid Flow, Vol. 79, Article Number 108444. DOI: 10.1016/j.ijheatfluidflow.2019.108444 (WOS:000489193800005)</p>	<p>DOI: 10.1016/j.ijheatfluidflow.2019.108444</p>	<p>2019 4</p> <p>2.073</p>	<p>3.07</p>
	<p>Dai Y., Kaiser A.S., Lu Y. et al. (2019) Addressing the adverse cold air inflow effects for a short natural draft dry cooling tower through swirl generation, International Journal of Heat and Mass Transfer, Vol. 145, Article Number 118738. DOI: 10.1016/j.ijheatmasstransfer.2019.118738 (WOS:000494883600059)</p>	<p>DOI: 10.1016/j.ijheatmasstransfer.2019.118738</p>	<p>2019 18738</p> <p>4.947</p>	<p>5.95</p>

<p>Goyal R., Bergan C., Cervantes M.J. et al. (2016) Experimental investigation on a high head model Francis turbine during load rejection, IOP Conference Series-Earth and Environmental Science, Vol. 49, Article Number 082004. DOI: 10.1088/1755-1315/49/8/082004 (WOS:000400156200109)</p>	<p>DOI: 10.1088/1755-1315/49/8/082004 2016 4</p>	<p>0</p>	<p>1.00</p>
<p>Insinna M., Salvadori S., Cagnarini C. et al. (2015) Aerodynamic Characterization of Conical Diffusers for Radial Turboexpanders under Realistic Inlet Conditions, Conference: ASME Turbo Expo: Turbine Technical Conference and Exposition Location: Montreal, CANADA Date: JUN 15-19, 2015, PROCEEDINGS OF THE ASME TURBO EXPO: TURBINE TECHNICAL CONFERENCE AND EXPOSITION, 2015, Vol. 9, Article Number V009T24A005. (WOS:000374508400005)</p>	<p>2015</p>	<p>0</p>	<p>1.00</p>
<p>Tian X.Q., Zheng Y., Pan H.C., Sun B., (2013) Numerical and Experimental Study on a Model Draft Tube with Vortex Generators, Advances in Mechanical Engineering, Paper ID 509314 doi: 10.1155/2013/509314 (WOS:000328384300001)</p>	<p>doi: 10.1155/2013/509 2013 314</p>	<p>1.161</p>	<p>2.16</p>
<p>Volkmer S., Kuschel B., Hirschmann A. et al. (2012) Hub Injection Flow Control in a Turbine Exhaust Diffuser, Conference: ASME Turbo Expo 2012 Location: Copenhagen, DENMARK Date: JUN 11-15, 2012, Proceedings of the ASME TURBO EXPO 2012, VOL 8, PTS A-C, Pages 1713. (WOS:000335720900150)</p>	<p>2012</p>	<p>0</p>	<p>1.00</p>

<p>Baya A., <b>Muntean S.</b>, Câmpian V.C., Cuzmos A., Diaconescu, M., Balan, G., (2010) Experimental investigations of the unsteady flow in a Francis turbine draft tube cone, in Proceedings of 25th IAHR Symposium on Hydraulic Machinery and Systems, Timisoara, Romanian, September 20-24, 2010, pp. 1-9. IoP Conf. Ser.: Earth and Env. Sci., Vol 12, Paper no. 012007 DOI: 10.1088/1755-1315/12/1/012007 (WOS:000325657000007)</p>	<p>Bosioc A.I., Tanasa C., (2020) Experimental study of swirling flow from conical diffusers using the water jet control method, Renewable Energy, Vol. 152, pp. 385-398. DOI: 10.1016/j.renene.2020.01.080 (WOS:000536949600033)</p>	<p>DOI: 10.1016/j.renene. 2020 2020.01.080</p>	<p>6.274</p>	<p>7.27</p>
	<p>Sotoudeh N., Maddahian R., Cervantes M. J.. (2020) Investigation of Rotating Vortex Rope formation during load variation in a Francis turbine draft tube, Renewable Energy, Vol. 151, pp. 238-254. DOI: 10.1016/j.renene.2019.11.014 (WOS:000521120700020)</p>	<p>DOI: 10.1016/j.renene. 2020 2019.11.014</p>	<p>6.274</p>	<p>7.27</p>
	<p>Yu A., Tang Q.H., Wang X.H. et al. (2019) Investigation of the Pressure Fluctuation Alleviation in a Hydraulic Turbine Runner Modification, Water, Vol. 11, Issue 7, Article Number 1332. DOI: 10.3390/w11071332 (WOS:000480632300017)</p>	<p>DOI: 10.3390/w110713 2019 32</p>	<p>2.544</p>	<p>3.54</p>
	<p>Valero C., Egusquiza M., Egusquiza E., Presas A., Valentin D., Bossio M., (2018) Extension of Operating Range in Pump-Turbines. Influence of Head and Load, Energies, Vol. 10, Issue 12, Article no. 2178 DOI: 10.3390/en10122178 (WOS:000423156900249)</p>	<p>DOI: 10.3390/en10122 2018 178</p>	<p>2.702</p>	<p>3.70</p>
	<p>Gogstad P.J., Dahlhaug O.G. (2016) Evaluation of runner cone extension to dampen pressure pulsations in a Francis model turbine, IOP Conference Series-Earth and Environmental Science, Vol. 49, Article Number 082019. DOI: 10.1088/1755-1315/49/8/082019 (WOS:000400156200124)</p>	<p>DOI: 10.1088/1755- 1315/49/8/08201 2016 9</p>	<p>0</p>	<p>1.00</p>

	Turkmenoglu V., (2013) The vortex effect of Francis turbine in electric power generation, Turkish Journal of Electrical Engineering and Computer Science, Vol 21, Issue 1, pp. 26-37. DOI: 10.3906/elk-1105-45 (WOS:000322742800002)	DOI: 10.3906/elk-2013 1105-45	0.682	1.68
	Qian Z., Li W., Huai W., Wu Y., (2012) The effect of runner cone design on pressure oscillation characteristics of the Francis hydraulic turbine, Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, Vol. 226, No. 6, pp. 137-150 doi: 10.1177/0957650911422865 (WOS:000305614900013)	doi: 10.1177/0957650911422865 2012 911422865	1.563	2.56
Tănasă C., Susan-Resiga R., Bosioc A., <b>Muntean S.</b> , (2010) Mitigation of pressure fluctuations in the discharge cone of hydraulic turbines using Flow-Feedback, IOP Conference Series - Earth and Environmental Science, 12, Paper No 012067. DOI: 10.1088/1755-1315/12/1/012067	Su WT., Li XB., Xu YN., Gong RZ., Binama M., Muhirwa A., (2018) The influence of runner cone perforation on the draft tube vortex in Francis hydro-turbine, Thermal science, Vol. 22, pp. S557-S566, Supplement 2. DOI: 10.2298/TSCI1710110405 (WOS:000435526200023)	DOI: 10.2298/TSCI1710110405 2018 110405	1.574	2.57
	Shingai K., Okamoto N., Tamura Y. et al. (2014) Long-Period Pressure Pulsation Estimated in Numerical Simulations for Excessive Flow Rate Condition of Francis Turbine, ASME Journal of Fluids Engineering, Vol. 136, Issue 7, Article Number 071105. DOI: 10.1115/1.4026584 (WOS:000337045900005)	DOI: 10.1115/1.4026584 2014 6584	2.056	3.06
Stuparu A., Susan-Resiga R., Anton L.E., <b>Muntean S.</b> , (2010) Numerical investigation of the cavitation behaviour into a storage pump at off design operating points, in Proceedings of 25th IAHR Symposium on Hydraulic Machinery and Systems, Timisoara, Romanian, September 20-24. IoP Conf. Ser.: Earth and Env. Sci., Vol 12, Paper No 012068 DOI: 10.1088/1755-1315/12/1/012068 (WOS: 000325657000068)	Li X.-S., Wu Q.-T., Miao L.-Y. et al. (2020) Scale-resolving simulations and investigations of the flow in a hydraulic retarder considering cavitation, Journal of Zhejiang University-Science A, Vol. 21, Issue 10, Pages: 817-833 . DOI: 10.1631/jzus.A1900466 (WOS:000582868600003)	DOI: 10.1631/jzus.A1900466 2020 0466	1.49	2.49

	Tao R., Xiao R.F., Wang F.J., (2016) Detached eddy simulations for high speed axial flow fuel pumps with swept and straight blade impellers, Engineering Computations, Vol 33, Issue 8, pp. 2530-2545. DOI: 10.1108/EC-06-2015-0165 (WOS:000386792800015)
Frunză T., Susan-Resiga R., <b>Muntean S.</b> , Bernad S., (2010) Optimization of the hydrofoil cascade and validation with quasi-analytical solution for hydraulic machinery, in Proceedings of 25th IAHR Symposium on Hydraulic Machinery and Systems, Timisoara, Romanian, September 20-24. IoP Conf. Ser.: Earth and Env. Sci., Vol 12, Paper No 012075, DOI: 10.1088/1755-1315/12/1/012075 (WOS: 000325657000075)	Djavareshkian M.H., Esmaeili A. (2014) Heuristic optimization of submerged hydrofoil using ANFIS-PSO, Ocean Engineering, Vol 92, pp. 55-63. DOI: 10.1016/j.oceaneng.2014.09.033 (WOS:000347497800006)
<b>Muntean S.</b> , Nilsson H., Susan-Resiga R., (2009) 3D numerical analysis of the unsteady turbulent swirling flow in a conical diffuser using Fluent and OpenFOAM, 3rd IAHR International Meeting of the Workshop on Cavitation and Dynamic Problems in Hydraulic Machinery and Systems, October 14-16, Brno, Czech Republic.	Ranjan P., Warton W.J., James K.A. (2020) A Comparison of Physics- and Correlation-Based Turbulence Models at Low Reynolds Numbers, Journal of Aircraft, Vol. 57, Issue 1, Pages 128-142 . DOI: 10.2514/1.C035588 (WOS:000511326300009)
	Ramirez-Pastran J., Duque-Daza C. (2019) On the prediction capabilities of two SGS models for large-eddy simulations of turbulent incompressible wall-bounded flows in OpenFOAM, Cogent Engineering, Vol. 6, Issue 1, Article Number: 1679067. DOI: 10.1080/23311916.2019.1679067 (WOS:000496784900001)
	Ranjan P., Ansell P.J., James K.A. (2019) Optimal Hyperelliptic Cambered Span Configurations for Minimum Drag, Journal of Aircraft, Vol. 56, Issue 1, Pages: 356 - 368. DOI: 10.2514/1.C034992 (WOS:000459623700029)

DOI: 10.1108/EC-2016 06-2015-0165	1.322	2.32
DOI: 10.1016/j.oceaneng.2014 ng.2014.09.033	3.068	4.07
DOI: 10.2514/1.C035588 2020 8	1.11	2.11
DOI: 10.1080/23311916 2019 6.2019.1679067	0	1.00
DOI: 10.2514/1.C034992 2019 2	1.11	2.11

Rajan P., Ansell P.J., (2018) Computational Analysis of Vortex Wakes Without Near-Field Rollup Characteristics, Journal of Aircraft, Vol. 55, Issue 5, pp. 2008-2021. DOI: 10.2514/1.C034782 (WOS:000446420200021)	DOI: 10.2514/1.C034782	2018 2	1.11	2.11
Iviangani L., Buchmayr M., Darwisch M. et al. (2017) A fully coupled OpenFOAM (R) solver for transient incompressible turbulent flows in ALE formulation, Numerical Heat Transfer Part B - Fundamentals, Vol. 71 , Issue 4, Pages 313 - 326. DOI: 10.1080/10407790.2017.1293969 (WOS:000400329800002)	DOI: 10.1080/1040779	2017 0.2017.1293969	1.6	2.60
Gutierrez L.F., Tamagno J.P., Elaskar S.A. (2016) RANS Simulation of Turbulent Diffusive Combustion using Open Foam, Journal of Applied Fluid Mechanics, Vol. 9, Issue 2, Pages 669-682, Part 1. (WOS:000371954000017)		2016	0.689	1.69
Robertson E., Choudhury V., Bhushan S., Walters D.K., (2015) Validation of OpenFOAM numerical methods and turbulence models for incompressible bluff body flows, Computers & Fluids, Vol. 123, pp. 122-145, DOI: 10.1016/j.compfluid.2015.09.010 (WOS:000365367500011)	DOI: 10.1016/j.compflu	2015 id.2015.09.010	2.399	3.40
Ojima A., Kamemoto K. (2010) Vortex method simulation of 3D and unsteady vortices in a swirling flow apparatus experimented in "Politehnica" University of Timisoara, IOP Conference Series-Earth and Environmental Science, Vol. 12, Article Number: 012065. DOI: 10.1088/1755-1315/12/1/012065 (WOS:000325657000065)	DOI: 10.1088/1755-1315/12/1/012065	2020 5	0	1.00

Susan-Resiga R., <b>Muntean S.</b> , Stein P., Avellan F., (2009) Axisymmetric Swirling Flow Simulation of the Draft Tube Vortex in Francis Turbines at Partial Discharge, International Journal of Fluid Machinery and Systems, Vol. 2, Issue 4, pp. 295-302, Paper O09028S (JSTAGE database)	Kim S.-J., Choi Y.-S., Cho Y. et al. (2020) Effect of Fins on the Internal Flow Characteristics in the Draft Tube of a Francis Turbine Model Energies Vol 13 Issue 11 Article Number 2806 DOI: 10.3390/en13112806 (WOS:000545401100133)	DOI: 10.3390/en13112 2020 806	2.702	3.70
	Song P., Sun J. (2020) Cryogenic Cavitation Mitigation in a Liquid Turbine Expander of an Air-Separation Unit through Collaborative Fine-Tuned Optimization of Impeller and Fairing Cone Geometries, Energies, Vol 13 Issue 1, Article Number 50. DOI: 10.3390/en13010050 (WOS:000520425800050)	DOI: 10.3390/en13010 2020 050	2.702	3.70
	Rajan G.K., Cimbala J.M. (2017) Computational and Theoretical Analyses of the Precessing Vortex Rope in a Simplified Draft Tube of a Scaled Model of a Francis Turbine, ASME Journal of Fluids Engineering, Vol. 139, Issue 2, Article Number 021102. DOI: 10.1115/1.4034693 (WOS:000395119800002)	DOI: 10.1115/1.403469 2017 3	2.056	3.06
	Luo X.-W., Jin B., Tsujimoto Y., (2016), A review of cavitation in hydraulic machinery, Journal of Hydrodynamics, Vol. 28, Issue 3, pp. 335-358. doi: 10.1016/S1001-6058(16)60638-8 (WOS:000379107000001)	doi: 10.1016/S1001- 2016 6058(16)60638-8	2.265	3.27
	Foroutan H., Yavuzkurt S., (2016) An axisymmetric model for draft tube flow at partial load, Journal of Hydrodynamics, Vol. 28, Issue 2, pp. 195-205 doi: 10.1016/S1001-6058(16)60621-2 (WOS:000375492600003)	doi: 10.1016/S1001- 2016 6058(16)60621-2	2.265	3.27



<p>Bahrami S., Tribes C., Devals C., Vu T.C., Guibault F., (2016), Multi-fidelity shape optimization of hydraulic turbine runner blades using a multi-objective mesh adaptive direct search algorithm, Applied Mathematical Modelling, Vol. 40, Issue 2, pp. 1650–1668. doi: 10.1016/j.apm.2015.09.008 (WOS:000367407700068)</p>	<p>doi: 10.1016/j.apm.20</p>	<p>2016 15.09.008</p> <hr/> <p>3.633</p>	<p>4.63</p>
<p>Song P., Sun J.J., Wang K., (2015) Swirling and cavitating flow suppression in a cryogenic liquid turbine expander through geometric optimization, Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, Vol. 229, Issue 6, pp. 628-646. doi: 10.1177/0957650915589062 (WOS:000360408200005)</p>	<p>doi: 10.1177/0957650</p>	<p>2015 915589062</p> <hr/> <p>1.563</p>	<p>2.56</p>
<p>Elbatran A.H., Yaakob O.B., Ahmed Y.M., Shabara, H.M., (2015) Operation, performance and economic analysis of low head micro-hydropower turbines for rural and remote areas: A review, Renewable and Sustainable Energy Reviews, Vol. 43, pp. 40-50. doi: 10.1016/j.rser.2014.11.045 (WOS:000348880600004)</p>	<p>doi: 10.1016/j.rser.201</p>	<p>2015 4.11.045</p> <hr/> <p>12.11</p>	<p>13.11</p>
<p>Stoessel L., Nilsson H. (2015) Steady and unsteady numerical simulations of the flow in the Tokke Francis turbine model, at three operating conditions, Journal of Physics Conference Series, Vol 579 Article Number: 012011. DOI: 10.1088/1742-6596/579/1/012011 (WOS:000352267200011)</p>	<p>DOI: 10.1088/1742-6596/579/1/0120</p>	<p>2015 11</p> <hr/> <p>0</p>	<p>1.00</p>

	Bahrami S., Tribes C., Devals C. et al. (2014) Multi-Objective Optiomization of Runner Blades using a Multi-Fidelity Algorithm, PROCEEDINGS OF THE ASME POWER CONFERENCE, 2013, VOL 2 Article Number: UNSP V002T09A008 (WOS:000349875400025)	2014	0	1.00
	Bistrrian D.A., (2013) Mathematical and numerical treatment of instabilities of non-axisymmetric confined vortices under the Dirichlet boundary conditions, Applied Mathematical Modeling, Vol 37, Issue 6, pp. 3993-4006. DOI: 10.1016/j.apm.2012.09.019 (WOS:000316706300029)	2013	3.633	4.63
	Topor M., Bistrrian D.A. (2012) Localization of the Most Amplified Perturbation in a Vortex Rope Located in Francis Turbine at Partial Discharge, AIP Conference Proceedings Vol 1493 Pages: 1047-1053 DOI: 10.1063/1.4765617 (WOS:000312264400156)	2012	0	1.00
<b>Muntean S., Baya A., Susan-Resiga R., Anton I., (2009) Numerical Flow Analysis into a Francis Turbine Runner with Medium Specific Speed at Off-Design Operating Conditions, Acta Technica Napocensis, Series: Applied Mathematics and Mechanics, No. 52, vol. II, pp. 325 – 334</b>	Anup K.C., Lee Y.H., Thapa B., (2016) CFD study on prediction of vortex shedding in draft tube of Francis turbine and vortex control techniques, Renewable Energy, Vol 86, pp 1406-1421. DOI: 10.1016/j.renene.2015.09.041 (WOS:000364248300135)	2016	6.274	7.27
	Anup K.C., Thapa B., Lee Y.H., (2014) Transient numerical analysis of rotor-stator interaction in a Francis turbine, Renewable Energy, Vol 65, pp 227-235. DOI: 10.1016/j.renene.2013.09.013 (WOS:000331923300034)	2014	6.274	7.27

<p>Bosioc A., Tănasă C., <b>Muntean S.</b> and Susan-Resiga R., (2009) 2D LDV measurements and comparison with axisymmetric flow analysis of swirling flow in a simplified draft tube, 3<sup>rd</sup> IAHR International Meeting of the Workgroup on Cavitation and Dynamic Problems in Hydraulic Machinery and Systems, October 14-16, 2009, Brno, Czech Republic. ISBN 978-80-214-3947-4 pp. 551-560.</p>	<p>Foroutan H., Yavuzkurt S., (2016) An axisymmetric model for draft tube flow at partial load, Journal of Hydrodynamics, Vol. 28, Issue 2, pp. 195-205 doi: 10.1016/S1001-6058(16)60621-2 (WOS:000375492600003)</p>	<p>doi: 10.1016/S1001- 2016 6058(16)60621-2</p>	<p>2.265</p>	<p>3.27</p>
	<p>Kirschner O., Schmidt H., Ruprecht A. et al. (2010) Experimental investigation of vortex control with an axial jet in the draft tube of a model pump-turbine, IOP Conference Series-Earth and Environmental Science, Vol. 12, Article Number 012092. DOI: 10.1088/1755-1315/12/1/012092 (WOS:000325657000092)</p>	<p>DOI: 10.1088/1755- 1315/12/1/01209 2010 2</p>	<p>0</p>	<p>1.00</p>
<p>Susan-Resiga R. F., <b>Muntean S.</b>, Tanasa C., Bosioc A. (2009). Three-dimensional versus two-dimensional axisymmetric analysis for decelerated swirling flows. In Proceedings of the 14th International Conference on Fluid Flow (CMFF'09), 9–12 September 2009, Budapest, Hungary, pp. 862–869.</p>	<p>Abedi M., Askari K., Sepani-Younsi J. et al. (2020) Axisymmetric and three-dimensional flow simulation of a mixed compression supersonic air inlet, Propulsion and Power Research Vol 9 Issue 1 Pages 51-61 . DOI: 10.1016/j.jprr.2020.01.002 (WOS:000521100200005)</p>	<p>DOI: 10.1016/j.jprr.202 2020 0.01.002</p>	<p>0</p>	<p>1.00</p>
	<p>Cerpinska M., Irbe M., Elmanis-Helmanis R. (2019) Swirling Flow in Francis Turbines Depending on Guide Vanes Opening Position, Engineering for Rural Development, Pages 1435-1440 . DOI: 10.22616/ERDev2019.18.N229 (WOS:000482103500209)</p>	<p>DOI: 10.22616/ERDev2 2019 019.18.N229</p>	<p>0</p>	<p>1.00</p>
	<p>Gabor K.M., Shindle B., Chandy A.J. (2017) CFD simulations of polymer devolatilization in steam contactors, Engineering Applications of Computational Fluid Mechanics, Vol. 11, Issue 1, pp.273-292, DOI: 10.1080/19942060.2017.1283647 (WOS:000395115300004)</p>	<p>DOI: 10.1080/1994206 2017 0.2017.1283647</p>	<p>5.8</p>	<p>6.80</p>

	<p>Guha A., Sengupta S. (2017) Non-linear interaction of buoyancy with von Karman's swirling flow in mixed convection above a heated rotating disc, International Journal of Heat and Mass Transfer Vol 108 Pages 402-416 Part A. DOI: 10.1016/j.ijheatmasstransfer.2016.11.082 (WOS:000399357800033)</p>	<p>DOI: 10.1016/j.ijheatmasstransfer.2016.11.082</p>	<p>4.947</p>	<p>5.95</p>
	<p>Beaubert, F., Palsson H., Lalot S., Choquet I., Bauduin H. (2016) Fundamental mode of freely decaying laminar swirling flows, Applied Mathematical Modeling, Vol. 40, Issue 13-14, pp. 6218-6233 doi: 10.1016/j.apm.2016.02.002 (WOS:000377921900002)</p>	<p>doi: 10.1016/j.apm.2016.02.002</p>	<p>3.633</p>	<p>4.63</p>
<p><b>Muntean S.,</b> Susan-Resiga R., Bosioc A., (2009) 3D Numerical Analysis of Unsteady Pressure Fluctuations in a Swirling Flow without and with Axial Water Jet Control. In Proceedings of the Conference on Modelling Fluid Flow (CMFF'09), September 9-12, Budapest, Hungary. Vol. II, pp. 510 – 517</p>	<p>Son M., Murodil E., (2020) Numerical Calculation of an Air Centrifugal Separator Based on the SARC Turbulence Model, Journal of Applied and Computational Mechanics Vol. 6 Special Issue: SI Pages: 1133-1140. DOI: 10.22055/JACM.2020.31423.1871 (WOS:000595004400007)</p>	<p>DOI: 10.22055/JACM.2020.31423.1871</p>	<p>0</p>	<p>1.00</p>
	<p>Mancuso G., (2018) Experimental and numerical investigation on performance of a swirling jet reactor, Ultrasonics sonochemistry, Vol. 49, pp. 241-248. DOI: 10.1016/j.ultsonch.2018.08.011 (WOS:000445993700029)</p>	<p>DOI: 10.1016/j.ultsonch.2018.08.011</p>	<p>6.513</p>	<p>7.51</p>
	<p>Novkovic D.M., Burazer J.M., Cocic A.S. (2017) Comparison of Different CFD Software Performances in the Case of an Incompressible Air Flow Through a Straight Conical Diffuser, Thermal Science Vol. 21 Supplement 3 Pages: S863-S874 . DOI: 10.2298/TSCI161020329N (WOS:000418781900027)</p>	<p>DOI: 10.2298/TSCI161020329N</p>	<p>1.574</p>	<p>2.57</p>

	<p>Duquesne P., Ciocan G.D., Aeschlimann V., Bombenger A., Deschênes C., (2013) Pressure probe with five embedded flush-mounted sensors: unsteady pressure and velocity measurements in hydraulic turbine model, Experiments in Fluids, Vol 54, pp.1425-1428. DOI: 10.1007/s00348-012-1425-y (WOS:000318153700011)</p>	<p>DOI: 10.1007/s003 2013 48-012-1425-y</p>	<p>2.335</p>	<p>3.34</p>
	<p>Gagnon J.-M., Aeschlimann V., Houde S., Flemming F., Coulson S., Deschenes C., (2012) Experimental investigation of draft tube inlet velocity field of a propeller turbine, ASME Journal of Fluids Engineering, Vol 34, Issue 10, 101102:1-12. DOI: 10.1115/1.4007523 (WOS:000314760800002)</p>	<p>DOI: 10.1115/1.400752 2012 3</p>	<p>2.056</p>	<p>3.06</p>
	<p>Page M., Beaudoin M., Giroux A.M. (2010) Steady-state capabilities for hydroturbines with OpenFOAM, IOP Conference Series- Earth and Environmental Science, Vol. 12 Article Number 012076. DOI: 10.1088/1755-1315/12/1/012076 (WOS:000325657000076)</p>	<p>DOI: 10.1088/1755- 1315/12/1/01207 2010 6</p>	<p>0</p>	<p>1.00</p>
<p>Stuparu A., <b>Muntean S.</b>, Susan-Resiga R., Anton L. (2009) Numerical investigation of the cavitation behavior of a storage pump, 3rd IAHR International Meeting of the Workgroup on Cavitation and Dynamic Problems in Hydraulic Machinery and Systems, October 14-16, 2009, Brno, Czech Republic. ISBN 978-80-214-3947-4. pp. 1-10</p>	<p>Li W.-G., (2016) Modeling Viscous Oil Cavitating Flow in a Centrifugal Pump, ASME Journal of Fluids Engineering, Vol 138, Issue 1, Article no. 011303. DOI: 10.1115/1.4031061 (WOS:000366319900011)</p>	<p>DOI: 10.1115/1.40310 2016 61</p>	<p>2.056</p>	<p>3.06</p>
<p>Susan-Resiga R., <b>Muntean S.</b> (2009) Decelerated Swirling Flow Control in the Discharge Cone of Francis Turbines. In: Xu J., Wu Y., Zhang Y., Zhang J. (eds) Fluid Machinery and Fluid Mechanics. Springer, Berlin, Heidelberg. doi: 10.1007/978-3-540-89749-1_12 (Springer Link Database)</p>	<p>Bosioc A.I., Tanasa C., (2020) Experimental study of swirling flow from conical diffusers using the water jet control method, Renewable Energy, Vol. 152, pp. 385-398. DOI: 10.1016/j.renene.2020.01.080 (WOS:000536949600033)</p>	<p>DOI: 10.1016/j.renene. 2020 2020.01.080</p>	<p>6.274</p>	<p>7.27</p>

<p>Susan-Resiga R., <b>Muntean S.</b>, Stein P., Avellan F. (2008)  Axisymmetric swirling flow simulation of the draft Tube vortex in Francis turbines at partial discharge, In Proceedings of the 24th IAHR Symposium on Hydraulic Machinery and Systems, October 27-31, 2008, Foz do Iguassu-Brazil.</p>	<p>Mangani L., Buchmayr M., Darwish M. et al. (2017) A fully coupled OpenFOAM (R) solver for transient incompressible turbulent flows in ALE formulation, Numerical Heat Transfer Part B - Fundamentals, Vol. 71 , Issue 4, Pages 313 - 326. DOI: 10.1080/10407790.2017.1293969 (WOS:000400329800002)</p>	<p>DOI:  10.1080/1040779  2017 0.2017.1293969</p>	<p>1.6</p>	<p>2.60</p>
<p><b>Muntean S.</b>, Susan-Resiga R., Bosioc A., Baya A., Anton L.E., Stuparu A. (2008) Mitigation of pressure fluctuation in a conical In Proceedings of the 24th IAHR Symposium on Hydraulic Machinery and Systems, October 27-31, 2008, Foz do Iguassu-Brazil.</p>	<p>Uddin W., Ayesha, Zeb K. et al. (2019) Current and future prospects of small hydro power in Pakistan: A survey, Energy Strategy Reviews, Vol 24, Pages 166-177 DOI: 10.1016/j.esr.2019.03.002 (WOS:000466911300013)</p>	<p>DOI:  10.1016/j.esr.2019  2019 .03.002</p>	<p>3.895</p>	<p>4.90</p>
<p><b>Muntean S.</b>, Susan-Resiga R., Bosioc A., Baya A., Anton L.E., Stuparu A. (2008) Mitigation of pressure fluctuation in a conical In Proceedings of the 24th IAHR Symposium on Hydraulic Machinery and Systems, October 27-31, 2008, Foz do Iguassu-Brazil.</p>	<p>Bahrami S., Tribes C., Devals C., Vu T.C., Guibault F., (2016), Multi-fidelity shape optimization of hydraulic turbine runner blades using a multi-objective mesh adaptive direct search algorithm, Applied Mathematical Modelling, Vol. 40, Issue 2, pp. 1650–1668. doi: 10.1016/j.apm.2015.09.008 (WOS:000367407700068)</p>	<p>doi:  10.1016/j.apm.20  2016 15.09.008</p>	<p>3.633</p>	<p>4.63</p>
<p><b>Muntean S.</b>, Susan-Resiga R., Bosioc A., Baya A., Anton L.E., Stuparu A. (2008) Mitigation of pressure fluctuation in a conical In Proceedings of the 24th IAHR Symposium on Hydraulic Machinery and Systems, October 27-31, 2008, Foz do Iguassu-Brazil.</p>	<p>Li Z.C., Chang J., Ji X.Y. et al. (2012) Hydraulic Disturbance Method to Reduce the Pressure Fluctuation in Francis Turbine Draft Tube PROCEEDINGS OF THE ASME/JSME/KSME JOINT FLUIDS ENGINEERING CONFERENCE 2011, VOL 1, PTS A-D, Pages: 649-653 (WOS:000308618000076)</p>	<p>2012</p>	<p>0</p>	<p>1.00</p>

	<p>Kirschner O., Schmidt H., Ruprecht A. et al. (2010) Experimental investigation of vortex control with an axial jet in the draft tube of a model pump-turbine, IOP Conference Series-Earth and Environmental Science, Vol. 12, Article Number 012092. DOI: 10.1088/1755-1315/12/1/012092 (WOS:000325657000092)</p>	<p>DOI: 10.1088/1755-1315/12/1/012092</p>	<p>2010 2 0</p>	<p>1.00</p>
<p>Susan-Resiga R., <b>Muntean S.</b>, Bosioc A. (2008) Blade Design for Swirling Flow Generator, Proceedings of the 4th German–Romanian workshop on turbomachinery hydrodynamics (GROWTH-4), Stuttgart, Germany.</p>	<p>Stefan D., Rudolf P., Hudec M. et al. (2019) Experimental investigation of vortex ring formation as a consequence of spiral vortex re-connection, IOP Conference Series-Earth and Environmental Science, Vol. 405, Article Number 012033. DOI: 10.1088/1755-1315/405/1/012033 (WOS:000562376700033)</p>	<p>DOI: 10.1088/1755-1315/405/1/012033</p>	<p>2019 33 0</p>	<p>1.00</p>
	<p>Skripkin S.G., Tsoy M.A., Kuibin, P.A. et al. (2017) Study of Pressure Shock Caused by a Vortex Ring Separated From a Vortex Rope in a Draft Tube Model, ASME Journal of Fluids Engineering, Vol. 139, Issue 8, Article Number 081103. DOI: 10.1115/1.4036264 (WOS:000403876900003)</p>	<p>DOI: 10.1115/1.4036264</p>	<p>2017 4 2.056</p>	<p>3.06</p>
<p>Susan-Resiga R., <b>Muntean S.</b>, Tănasă C., and Bosioc A. (2008) Hydrodynamic design and analysis of a swirling flow generator. Proceedings of the 4th German–Romanian workshop on turbomachinery hydrodynamics (GROWTH-4), Stuttgart, Germany.</p>	<p>Trung H.N., Phuong N.-T., Vancassel X. et al. (2019) Aero-thermodynamic and chemical process interactions in an axial high-pressure turbine of aircraft engines, International Journal of Engine Research Vol 20 Issue 6 Pages: 653-669 . DOI: 10.1177/1468087418772228 (WOS:000474907300005)</p>	<p>DOI: 10.1177/1468087418772228</p>	<p>2019 418772228 2.382</p>	<p>3.38</p>

<p>Rudolf P., Urban O., Stefan D. (2019) Construction of a reduced-order dynamic model for prospective swirling flow control in hydraulic turbine draft tube, IOP Conference Series-Earth and Environmental Science, Vol. 240, Article Number 022065. DOI: 10.1088/1755-1315/240/2/022065 (WOS:000560282600065)</p>	<p>DOI: 10.1088/1755-1315/240/2/0220</p> <p>2019 65</p>	0	1.00
<p>Litvinov I.V., Suslov D.R., Gorelikov I.V. et al. (2018) Swirl Number Analysis in the Air Hydro-turbine Model, AIP Conference Proceedings Vol 2027 , Article Number: 040057-1 DOI: 10.1063/1.5065331 (WOS:000481675800253)</p>	<p>DOI: 10.1063/1.506533</p> <p>2018 1</p>	0	1.00
<p>Litvinov I., Shtork S., Gorelikov E., Mitryakov A., Hanjalic K., (2018) Unsteady regimes and pressure pulsations in draft tube of a model hydro turbine in a range of off-design conditions, Experimental thermal and fluid science, Vol. 91, pp. 410-422. DOI: 10.1016/j.expthermflusci.2017.10.030 (WOS:000423246800037)</p>	<p>DOI: 10.1016/j.expthermflusci.2017.10.03</p> <p>2018 0</p>	3.444	4.44
<p>Kuibin P.A., Shtork S.I., Skripkin S.G. et al. (2017) On random pressure pulses in the turbine draft tube, Journal of Physics Conference Series Vol. 813 Article Number 012051 DOI: 10.1088/1742-6596/813/1/012051 (WOS:000440372200051)</p>	<p>DOI: 10.1088/1742-6596/813/1/0120</p> <p>2017 51</p>	0	1.00



<p>Minakov A. V., Platonov D.V., Litvinov I.V. et al. (2017) Vortex ropes in draft tube of a laboratory Kaplan hydroturbine at low load: an experimental and LES scrutiny of RANS and DES computational models, Journal of Hydraulic Research Vol 55 Issue 5 Pages: 668-685 DOI: 10.1080/00221686.2017.1300192 (WOS:000410859900006)</p>	<p>DOI: 10.1080/0022168 2017 6.2017.1300192</p>	<p>2.098</p>	<p>3.10</p>
<p>Litvinov I., Gorelikov E., Shtork S. (2017) Regimes with periodical pressure pulsation in Francis draft tube, MATEC Web of Conferences, Vol 115 Article Number 05013. DOI: 10.1051/mateconf/201711505013 (WOS:000579352200062)</p>	<p>DOI: 10.1051/matecon 2017 f/201711505013</p>	<p>0</p>	<p>1.00</p>
<p>Javadi A., Nilsson H., (2017) Active flow control of the vortex rope and pressure pulsations in a swirl generator, Engineering Applications of Computational Fluid Mechanics, Vol. 11, Issue 1, pp: 30-41. DOI: 10.1080/19942060.2016.1235515 (WOS:000386338500003)</p>	<p>DOI: 10.1080/1994206 2017 0.2016.1235515</p>	<p>5.8</p>	<p>6.80</p>
<p>Skripkin S., Tsoy M., Shtork S., Hanjalic K., (2016) Comparative analysis of twin vortex ropes in laboratory models of two hydro-turbine draft-tubes, Journal of Hydraulic Research, Vol 54, Issue 4, pp. 450-460. DOI: 10.1080/00221686.2016.1168325 (WOS:000379139000007)</p>	<p>DOI: 10.1080/002 21686.2016.11683 2016 25</p>	<p>2.098</p>	<p>3.10</p>

	<p>Alekseenko S.V., Kuibin P.A., Shtork S.I. et al. (2016) A novel scenario of aperiodical impacts appearance in the turbine draft tube, IOP Conference Series-Earth and Environmental Science, Vol 49 Article Number 082025 DOI: 10.1088/1755-1315/49/8/082025 (WOS:000400156200130)</p>	<p>DOI: 10.1088/1755-1315/49/8/082025</p>	<p>2016 5 0</p>	<p>1.00</p>
	<p>☒ Sonin V., Ustimenko A., Kuibin P. et al. (2016) Study of the velocity distribution influence upon the pressure pulsations in draft tube model of hydro-turbine, IOP Conference Series-Earth and Environmental Science, Vol 49 Article Number 082020. DOI: 10.1088/1755-1315/49/8/082020 (WOS:000400156200125)</p>	<p>DOI: 10.1088/1755-1315/49/8/082020</p>	<p>2016 0 0</p>	<p>1.00</p>
	<p>Tsoy M.A., Skripkin S.G., Shtork S.I. (2015) Experimental investigation of a twin vortex breakdown on the draft tube models, 5TH INTERNATIONAL YOUTH CONFERENCE ON ENERGY (IYCE) DOI: 10.1109/IYCE.2015.7180821 (WOS:000381549900093)</p>	<p>DOI: 10.1109/IYCE.2015.7180821</p>	<p>2015 5.7180821 0</p>	<p>1.00</p>
<p>Bernad S., Susan-Resiga R., <b>Muntean S.</b>, Anton I., (2007) Cavitation phenomena in hydraulic valves. Numerical modeling, Proceedings of the Romanian Academy, Series A Mathematics, Physics, Technical Sciences, Information Science, Vol 8, No 2, pp 117-126.</p>	<p>Kocijel L., Mrzljak V., Glazar V. (2020) Pressure drop in large volumetric heat storage tank radial plate diuser, Journal of Energy Storage, Vol. 29, Article Number 101350 DOI: 10.1016/j.est.2020.101350 (WOS:000541465000013)</p>	<p>DOI: 10.1016/j.est.2020.101350</p>	<p>2020 .101350 3.762</p>	<p>4.76</p>
	<p>Qian J.-Y., Gao Z.-X., Hou C.-W. et al. (2019) A comprehensive review of cavitation in valves: mechanical heart valves and control valves, Bio-design and Manufacturing, Vol. 2, Issue 2, Pages: 119-136</p>		<p>2019 4.095</p>	<p>5.10</p>

<p>Ko S., Song S., (2015) Effects of design parameters on cavitation in a solenoid valve for an electric vehicle braking system and design optimization, Journal of Mechanical Science and Technology, Vol. 29, Issue 11, pp. 4757-4765. DOI: 10.1007/s12206-015-1023-z (WOS:000365873100022)</p>	<p>DOI: 10.1007/s12206- 2015 015-1023-z</p>	<p>1.345</p>	<p>2.35</p>	
<p>Dumond J., Magagnato F., Class A., (2013) Stochastic-field cavitation model, Physics of Fluids, Vol 25, Issue 7, Article No: 073302 DOI: 10.1063/1.4813813 (WOS:000322521100028)</p>	<p>DOI: 10.1063/1.481381 2013 3</p>	<p>3.514</p>	<p>4.51</p>	
<p>Magagnato F., Dumond J., (2013) A cavitation model based on Eulerian stochastic fields, IOP Conference Series-Materials Science and Engineering, Vol. 52, Article Number 012003. DOI: 10.1088/1757-899X/52/1/012003 (WOS:000329430200003)</p>	<p>DOI: 10.1088/1757- 899X/52/1/01200 2013 3</p>	<p>0</p>	<p>1.00</p>	
<p>Baran G., Catana I., Magheti I. et al. (2010) Controlling the cavitation phenomenon of evolution on a butterfly valve, IOP Conference Series-Earth and Environmental Science, Vol. 12, Article Number 012100. DOI: 10.1088/1755-1315/12/1/012100 (WOS:000325657000100)</p>	<p>DOI: 10.1088/1755- 1315/12/1/01210 2010 0</p>	<p>0</p>	<p>1.00</p>	
<p>Susan-Resiga R., <b>Muntean S.</b>, Hasmatuchi V., Bernard S., (2007) Development of a swirling flow control technique for Francis turbines operated at partial discharge, in Proceedings of the 3rd German-Romanian workshop on turbomachinery hydrodynamics May 10-12, 2007, Timisoara, Romania.</p>	<p>Altimemy M., Attiya B., Daskiran C. et al. (2019) Mitigation of flow-induced pressure fluctuations in a Francis turbine operating at the design and partial load regimes-LES simulations, International Journal of Heat and Fluid Flow, Vol. 79, Article Number 108444. DOI: 10.1016/j.ijheatfluidflow.2019.108444 (WOS:000489193800005)</p>	<p>DOI: 10.1016/j.ijheatflu idflow.2019.10844 2019 4</p>	<p>2.073</p>	<p>3.07</p>

<p>Pochyly F., Fialova S., Stefan D., (2019) Effect of spiral vortices on the stability of vortex structures in the diffuser, IOP Conference Series-Earth and Environmental Science, Vol. 240, Article Number: 022052. DOI: 10.1088/1755-1315/240/2/022052 (WOS:000560282600052)</p>	<p>DOI: 10.1088/1755-1315/240/2/022052 2019 52</p>	<p>0</p>	<p>1.00</p>
<p>Skripkin S., Tsoy M., Kuibin P., et al. (2019) Swirling flow in a hydraulic turbine discharge cone at different speeds and discharge conditions, Experimental Thermal and Fluid Science, Vol. 100, Pages 349-359. DOI: 10.1016/j.expthermflusci.2018.09.015 (WOS:000449900300027)</p>	<p>DOI: 10.1016/j.expthermflusci.2018.09.015 2019 5</p>	<p>3.444</p>	<p>4.44</p>
<p>Su WT., Li XB., Xu YN., Gong RZ., Binama M., Muhirwa A., (2018) The influence of runner cone perforation on the draft tube vortex in Francis hydro-turbine, Thermal science, Vol. 22, pp. S557-S566, Supplement 2. DOI: 10.2298/TSCI171011040S (WOS:000435526200023)</p>	<p>DOI: 10.2298/TSCI171011040S 2018 11040S</p>	<p>1.574</p>	<p>2.57</p>
<p>Litvinov I.V., Suslov D.R., Gorelikov I.V. et al. (2018) Swirl Number Analysis in the Air Hydro-turbine Model, AIP Conference Proceedings Vol 2027 , Article Number: 040057-1 DOI: 10.1063/1.5065331 (WOS:000481675800253)</p>	<p>DOI: 10.1063/1.5065331 2018 1</p>	<p>0</p>	<p>1.00</p>
<p>Turkmenoglu V., (2013) The vortex effect of Francis turbine in electric power generation, Turkish Journal of Electrical Engineering and Computer Science, Vol 21, Issue 1, pp. 26-37. DOI: 10.3906/elk-1105-45 (WOS:000322742800002)</p>	<p>DOI: 10.3906/elk-1105-45 2013 1105-45</p>	<p>0.682</p>	<p>1.68</p>

	<p>Zhang Y.F., Chen H.X., Fu S., (2012) A Karman-Vortex Generator for passive separation control in a conical diffuser, Science China-Physics Mechanics &amp; Astronomy, Vol 55, Issue 5, pp 828-836. DOI: 10.1007/s11433-012-4708-7 (WOS:000302769400015)</p>	<p>DOI: 10.1007/s114 2012 33-012-4708-7</p>	<p>4.226</p>	<p>5.23</p>
	<p>Qian Z., Li W., Huai W., Wu Y., (2012) The effect of runner cone design on pressure oscillation characteristics of the Francis hydraulic turbine, Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, Vol. 226, No. 6, pp. 137-150 doi: 10.1177/0957650911422865 (WOS:000305614900013)</p>	<p>doi: 10.1177/0957650 2012 911422865</p>	<p>1.563</p>	<p>2.56</p>
	<p>Kumar P., Saini R.P., (2010) Study of cavitation in hydro turbines-A review, Renewable and Sustainable Energy Reviews, Vol. 14, Issue 1, pp. 374-383. DOI: 10.1016/j.rser.2009.07.024 (WOS:000271279100025)</p>	<p>DOI: 10.1016/j.rser.200 2010 9.07.024</p>	<p>12.11</p>	<p>13.11</p>
<p><b>Muntean S.,</b> Ruprecht A., Susan-Resiga R., (2007) Development of a swirling flow apparatus for analysis and development of swirling flow control, in Proceedings of the 3rd German-Romanian workshop on turbomachinery hydrodynamics May 10-12, 2007, Timisoara, Romania.</p>	<p>Vannassi M., Monroyer F. (2016) Numerical simulation of the flow through the blades of a swirl generator, Applied Mathematical Modeling, Vol. 40, Issue 2, pp. 1247-1259 doi: 10.1016/j.apm.2015.07.018 (WOS:000367407700040)</p>	<p>doi: 10.1016/j.apm.20 2016 15.07.018</p>	<p>3.633</p>	<p>4.63</p>
<p>Kirschner O., <b>Muntean S.,</b> Susan-Resiga R., Ruprecht A., (2007) Swirling Flow in a Straight Cone Draft Tube: Axi-symmetric Flow Analysis and Comparison with Circumferentially Averaged PIV Measurements, 2nd IAHR International Meeting of the Workgroup on Cavitation and Dynamic Problems in Hydraulic Machinery and Systems, October 24–26, Timisoara, Romania.</p>	<p>Abbas A., Kumar A., (2017) Development of draft tube in hydro-turbine: a review, International Journal of Ambient Energy, Vol. 38, Issue 3 Pages: 323-330 . DOI: 10.1080/01430750.2015.1111845 (WOS:000396854700016)</p>	<p>DOI: 10.1080/0143075 2017 0.2015.1111845</p>	<p>0</p>	<p>1.00</p>

	<p>Foroutan H., Yavuzkurt S., (2016) An axisymmetric model for draft tube flow at partial load, Journal of Hydrodynamics, Vol. 28, Issue 2, pp. 195-205 doi: 10.1016/S1001-6058(16)60621-2 (WOS:000375492600003)</p>	<p>doi: 10.1016/S1001-2016 6058(16)60621-2</p>	<p>2.265</p>	<p>3.27</p>
<p>Susan-Resiga R., <b>Muntean S.</b>, Bosioc A., Stuparu A., Milos T., Baya A., Bernad S., Anton L.E., (2007), Swirling Flow Apparatus and Test Rig for Flow Control in Hydraulic Turbines Discharge Cone, Scientific Bulletin of the "Politehnica" University of Timisoara, Transactions on Mechanics, Tom 52(66), No 6, pp: 203 – 216. Presented at the 2nd IAHR International Meeting of the Workgroup on Cavitation and Dynamic Problems in Hydraulic Machinery and Systems. Timisoara, Romania.</p>	<p>Muhirwa A., Cai W.-H., Su W.-T. et al. (2020) A review on remedial attempts to counteract the power generation compromise from draft tubes of hydropower plants, Renewable Energy, Vol. 150, pp. 743-764. DOI: 10.1016/j.renene.2019.12.141 (WOS:000518874500062)</p>	<p>DOI: 10.1016/j.renene.2020 2019.12.141</p>	<p>6.274</p>	<p>7.27</p>
	<p>Su WT., Li XB., Xu YN., Gong RZ., Binama M., Muhirwa A., (2018) The influence of runner cone perforation on the draft tube vortex in Francis hydro-turbine, Thermal science, Vol. 22, pp. S557-S566, Supplement 2. DOI: 10.2298/TSCI171011040S (WOS:000435526200023)</p>	<p>DOI: 10.2298/TSCI1710 2018 11040S</p>	<p>1.574</p>	<p>2.57</p>
	<p>Javadi A., Nilsson H., (2017) Active flow control of the vortex rope and pressure pulsations in a swirl generator, Engineering Applications of Computational Fluid Mechanics, Vol. 11, Issue 1, pp: 30-41. DOI: 10.1080/19942060.2016.1235515 (WOS:000386338500003)</p>	<p>DOI: 10.1080/1994206 2017 0.2016.1235515</p>	<p>5.8</p>	<p>6.80</p>
	<p>Javadi A., Nilsson H., (2015) Time-accurate Numerical Simulations of Swirling Flow with Rotor-stator Interaction, Flow Turbulence and Combustion, Vol. 95, Issue 4, pp. 755-774. doi: 10.1007/s10494-015-9632-2 (WOS:000364930200007)</p>	<p>doi: 10.1007/s104 2015 94-015-9632-2</p>	<p>2.472</p>	<p>3.47</p>

<p>Zhang Y.F., Chen H.X., Fu S., (2012) A Karman-Vortex Generator for passive separation control in a conical diffuser, Science China-Physics Mechanics &amp; Astronomy, Vol 55, Issue 5, pp 828-836. DOI: 10.1007/s11433-012-4708-7 (WOS:000302769400015)</p>	<p>DOI: 10.1007/s114 2012 33-012-4708-7</p>	<p>4.226</p>	<p>5.23</p>	
<p>Garcia F.C., Viveros C.A.M., (2010) Experimental analysis of the vibration on the draft tube of a Francis hydraulic turbine during operation at different power levels, Revista Facultad de Ingeniería – Universidad de Antioquia, Issue 55, pp. 90-98. (WOS:000281570600010)</p>	<p>2010</p>	<p>0.07</p>	<p>1.07</p>	
<p>Casanova F., (2009) Failure analysis of the draft tube connecting bolts of a Francis-type hydroelectric power plant, Engineering Failure Analysis, Vol. 16, Issue 7, pp. 2202-2208, 2009, doi:10.1016/j.engfailanal.2009.03.003 (WOS:000268566500022)</p>	<p>doi:10.1016/j.engf ailanal.2009.03.00 2009 3</p>	<p>2.897</p>	<p>3.90</p>	
<p>Bemad S., Susan-Resiga R., <b>Muntean S.</b>, Anton I., (2006) Numerical analysis of the cavitating flows, Proceedings of the Romanian Academy, Series A Mathematics, Physics, Technical Sciences, Information Science, Vol 7, Issue 1, pp. 1-13.</p>	<p>Gohil P.P., Saini R. P., (2019) Unsteady simulation of cavitating turbulent flow for low head Francis turbine, IOP Conference Series- Earth and Environmental Science, Vol. 240, Article Number 022007. DOI: 10.1088/1755-1315/240/2/022007 (WOS:000560282600007)</p>	<p>DOI: 10.1088/1755- 1315/240/2/0220 2019 07</p>	<p>0</p>	<p>1.00</p>
<p>Bagheri M.R., Seif M.S., Mehdigholi H., Yaakob O., (2017) Numerical Study of Cavitation in Francis Turbine of a Small Hydro Power Plant, Ships and Offshore Structures, Vol. 12, Issue 1, pp. 1-8 doi: 10.1080/17445302.2015.1099224 (WOS::000390674800001)</p>	<p>doi: 10.1080/1744530 2017 2.2015.1099224</p>	<p>1.47</p>	<p>2.47</p>	

<p>Kadivar E., Kadivar E., Javadi K. et al. (2017) The investigation of natural super-cavitation flow behind three-dimensional cavitators: Full cavitation model, Applied Mathematical Modelling, Vol. 45, Pages 165-178. DOI: 10.1016/j.apm.2016.12.017 (WOS:000405445300011)</p>	<p>DOI: 10.1016/j.apm.20 2017 16.12.017</p>	<p>3.633</p>	<p>4.63</p>
<p>Gohil P.P., Saini R.P., (2016) Numerical Study of Cavitation in Francis Turbine of a Small Hydro Power Plant, Journal of Applied Fluid Mechanics, Vol. 9, Issue 1, pp. 357-365 (WOS:000368753600011)</p>	<p>2016</p>	<p>0.689</p>	<p>1.69</p>
<p>Nouri N.M., Riahi M., Valipour A., Raeyatpishe M.M., Molavi E., (2015) Analytical and experimental study of hydrodynamic and hydroacoustic effects of air injection flow rate in ventilated supercavitation, Ocean Engineering, Vol. 95, pp. 94-105, DOI: 10.1016/j.oceaneng.2014.11.013 (WOS:000349738700008)</p>	<p>DOI: 10.1016/j.oceanen 2015 g.2014.11.013</p>	<p>3.068</p>	<p>4.07</p>
<p>Cao D.G., He G.Q., Pan H.L., Qin F., (2014) Numerical Simulation of the Thermal Effect in the Cavitating Venturi Flow, Journal of Thermophysics and Heat Transfer, Vol. 29, Issue 1, pp. 190-196, DOI: 10.2514/1.T4463 (WOS:000351607000017)</p>	<p>DOI: 2014 10.2514/1.T4463</p>	<p>1.307</p>	<p>2.31</p>
<p>Tseng C.C., Wang L.J., (2014) Investigations of empirical coefficients of cavitation and turbulence model through steady and unsteady turbulent cavitating flows, Computers &amp; Fluids, Vol. 103, pp. 262-274, DOI: 10.1016/j.compfluid.2014.07.026 (WOS:000343357800020)</p>	<p>DOI: 10.1016/j.compflu 2014 id.2014.07.026</p>	<p>2.399</p>	<p>3.40</p>



	<p>Akbarzadeh P., (2013) Cavitating/non-cavitating flows simulation by third-order finite volume scheme and power-law preconditioning method, Applied Mathematics and Mechanics - English Edition, Vol 34, Issue 2, pp. 209-228. DOI: 10.1007/s10483-013-1664-7 (WOS:000314023800007)</p>	<p>DOI: 10.1007/s10483- 2013 013-1664-7</p>	<p>2.017</p>	<p>3.02</p>
	<p>Esfahanian V., Akbarzadeh P., Hejranfar K., (2012) An improved progressive preconditioning method for steady non-cavitating and sheet-cavitating flows, International Journal for Numerical Methods in Fluids, Vol. 68 Issue 2, pp. 210-232, doi: 10.1002/flid.2502 (WOS:000298587200005)</p>	<p>doi: 2012 10.1002/flid.2502</p>	<p>1.808</p>	<p>2.81</p>
	<p>Popa D., Munteanu E., Munteanu L., Chiroiu V., (2009) On the shape reconstruction of 3D Stokes flows, Proceedings of the Romanian Academy, Series A Mathematics, Physics, Technical Sciences, Information Science, Vol. 10, Issue 3, pp. 254-260. (WOS:000272661900007)</p>	<p>2009</p>	<p>1.294</p>	<p>2.29</p>
<p>Susan-Resiga R.F., Vu T.C., <b>Muntean S.</b>, Ciocan G.D., Nennemann B., (2006) Jet Control of the Draft Tube Vortex Rope in Francis Turbines at Partial Discharge", in Proceedings of the 23<sup>rd</sup> IAHR Symposium on Hydraulic Machinery and Systems, Yokohama, Paper no. 192</p>	<p>Dehkharqani A.S., Engstrom F., Aidanpaa J.-O. et al. (2020) Experimental Investigation of a 10MW Prototype Axial Turbine Runner: Vortex Rope Formation and Mitigation, ASME Journal of Fluids Engineering, Vol. 142 Issue 10, Article Number: 101212.DOI: 10.1115/1.4047793 (WOS:000567334100012)</p>	<p>DOI: 10.1115/1.404779 2020 3</p>	<p>2.056</p>	<p>3.06</p>

<p>Bosioc A.I., Tanasa C., (2020) Experimental study of swirling flow from conical diffusers using the water jet control method, Renewable Energy, Vol. 152, pp. 385-398. DOI: 10.1016/j.renene.2020.01.080 (WOS:000536949600033)</p>	<p>DOI: 10.1016/j.renene. 2020 2020.01.080</p>	<p>6.274</p>	<p>7.27</p>
<p>Kim S.-J., Choi Y.-S., Cho Y. et al. (2020) Effect of Fins on the Internal Flow Characteristics in the Draft Tube of a Francis Turbine Model Energies Vol 13 Issue 11 Article Number 2806 DOI: 10.3390/en13112806 (WOS:000545401100133)</p>	<p>DOI: 10.3390/en13112 2020 806</p>	<p>2.702</p>	<p>3.70</p>
<p>Yu A., Zou Z.P., Zhou D. et al. (2020) Investigation of the correlation mechanism between cavitation rope behavior and pressure fluctuations in a hydraulic turbine, Renewable Energy, Vol. 147, pp. 1199-1208 Part: 1. DOI: 10.1016/j.renene.2019.09.096 (WOS:000502880700105)</p>	<p>DOI: 10.1016/j.renene. 2020 2019.09.096</p>	<p>6.274</p>	<p>7.27</p>
<p>Song P., Sun J. (2020) Cryogenic Cavitation Mitigation in a Liquid Turbine Expander of an Air-Separation Unit through Collaborative Fine-Tuned Optimization of Impeller and Fairing Cone Geometries, Energies, Vol 13 Issue 1, Article Number 50. DOI: 10.3390/en13010050 (WOS:000520425800050)</p>	<p>DOI: 10.3390/en13010 2020 050</p>	<p>2.702</p>	<p>3.70</p>

<p>Altimemy M., Attiya B., Daskiran C. et al. (2019) Mitigation of flow-induced pressure fluctuations in a Francis turbine operating at the design and partial load regimes-LES simulations, International Journal of Heat and Fluid Flow, Vol. 79, Article Number 108444.DOI: 10.1016/j.ijheatfluidflow.2019.108444 (WOS:000489193800005)</p>	<p>DOI: 10.1016/j.ijheatflu idflow.2019.10844</p>	<p>2019 4</p> <p>2.073</p>	<p>3.07</p>
<p>Yu A., Zhou D., Chen H.X. (2019) Numerical investigation of the behaviour of the cavitation rope in a Francis turbine with an optimized runner cone, IOP Conference Series-Earth and Environmental Science, Vol 240 Article Number 022013 DOI: 10.1088/1755-1315/240/2/022013 (WOS:000560282600013)</p>	<p>DOI: 10.1088/1755- 1315/240/2/0220</p>	<p>2019 13</p> <p>0</p>	<p>1.00</p>
<p>Altimemy M., Daskiran C., Attiya B. et al. (2019) Pressure Fluctuation Mitigation in a Francis Turbine with Water Injection - Computational Study PROCEEDINGS OF THE ASME INTERNATIONAL MECHANICAL ENGINEERING CONGRESS AND EXPOSITION, 2018, Vol 7 Article Number V007T09A047 (WOS:000465191000047)</p>	<p>DOI: 10.3390/sym11010046</p>	<p>2019</p> <p>0</p>	<p>1.00</p>
<p>Zhu D., Tao R., Xiao R. (2019) Anti-Cavitation Design of the Symmetric Leading-Edge Shape of Mixed-Flow Pump Impeller Blades, Symmetry -Basel, Vol 11 Issue 1 Article Number 46 DOI: 10.3390/sym11010046 (WOS:000459739500046)</p>	<p>DOI: 10.3390/sym1101</p>	<p>2019 0046</p> <p>2.645</p>	<p>3.65</p>

<p>Luo X., Yu A., Yu W. et al. (2019) Pressure oscillation suppression by air admission in a Francis turbine draft tube, IOP Conference Series-Earth and Environmental Science, Vol 240 Article Number 022008 DOI: 10.1088/1755-1315/240/2/022008 (WOS:000560282600008)</p>	<p>DOI: 10.1088/1755-1315/240/2/022008</p>	<p>0</p>	<p>1.00</p>
<p>Zhang R.-H., Yun L.-C., Li J. (2019) The effect of impeller slot jet on centrifugal pump performance, Journal of Hydrodynamics, Vol 31 Issue 4 Pages 733 - 739 DOI: 10.1007/s42241-018-0161-z (WOS:000478609600009)</p>	<p>DOI: 10.1007/s42241-018-0161-z</p>	<p>2.265</p>	<p>3.27</p>
<p>Mohammadi M., Hajidavalloo E., Behbahani-Nejad M. (2019) Investigation on Combined Air and Water Injection in Francis Turbine Draft Tube to Reduce Vortex Rope Effects, ASME Journal of Fluids Engineering, Vol. 141, Issue 5, Article no. 051301. DOI: 10.1115/1.4041565 (WOS:000461541600014)</p>	<p>DOI: 10.1115/1.4041565</p>	<p>2.056</p>	<p>3.06</p>
<p>Pasche S., Avellan F., Gallaire F., (2019) Optimal Control of Part Load Vortex Rope in Francis Turbines, ASME Journal of Fluids Engineering, Vol. 141, Issue 8, Article Number 081203. DOI: 10.1115/1.4042560 (WOS:000471286100018)</p>	<p>DOI: 10.1115/1.4042560</p>	<p>2.056</p>	<p>3.06</p>
<p>Chen Z., Choi Y.-D. (2019) Suppression of cavitation in the draft tube of Francis turbine model by J-Groove, Proceedings of the Institution of Mechanical Engineers Part C-Journal of Mechanical Engineerings Science, Vol. 233, Issue 9, Pages: 3100 - 3110 DOI: 10.1177/0954406218802310 (WOS:000464526500011)</p>	<p>DOI: 10.1177/0954406218802310</p>	<p>1.386</p>	<p>2.39</p>

<p>Yu A., Tang Q.H., Wang X.H. et al. (2019) Investigation of the Pressure Fluctuation Alleviation in a Hydraulic Turbine Runner Modification, Water, Vol. 11, Issue 7, Article Number 1332. DOI: 10.3390/w11071332 (WOS:000480632300017)</p>	<p>DOI: 10.3390/w110713</p>	<p>2019 32</p>	<p>2.544</p>	<p>3.54</p>
<p>Urban O., Rudolf P. (2019) POD analysis of a vortex rope with transient boundary conditions, IOP Conference Series-Earth and Environmental Science, Vol 405, Article Number 012034 DOI: 10.1088/1755-1315/405/1/012034 (WOS:000562376700034)</p>	<p>DOI: 10.1088/1755- 1315/405/1/0120</p>	<p>2019 34</p>	<p>0</p>	<p>1.00</p>
<p>Pochlyly F., Fialova S., Stefan D., (2019) Effect of spiral vortices on the stability of vortex structures in the diffuser, IOP Conference Series-Earth and Environmental Science, Vol. 240, Article Number: 022052. DOI: 10.1088/1755-1315/240/2/022052 (WOS:000560282600052)</p>	<p>DOI: 10.1088/1755- 1315/240/2/0220</p>	<p>2019 52</p>	<p>0</p>	<p>1.00</p>
<p>Goyal R., Gandhi B.K., (2018) Review of hydrodynamics instabilities in Francis turbine during off-design and transient operation, Renewable Energy, 116, 697-709, Part A. DOI: 10.1016/j.renene.2017.10.012 (WOS:000416188200060)</p>	<p>DOI: 10.1016/j.renene.</p>	<p>2018 2017.10.012</p>	<p>6.274</p>	<p>7.27</p>
<p>Yu A., Luo XW., Yang D.D., Zhou J.J., (2018) Experimental and numerical study of ventilation cavitation around a NACA0015 hydrofoil with special emphasis on bubble evolution and air-vapor interactions, Engineering computations, Vol. 35, Issue 3, pp. 1528-1542 DOI: 10.1108/EC-01-2017-0020 (WOS:000434649400021)</p>	<p>DOI: 10.1108/EC-</p>	<p>2018 01-2017-0020</p>	<p>1.322</p>	<p>2.32</p>

<p>Rudolf P., Litera J., Bolanos G.A.I., Stefan D., (2018) Manipulation of the swirling flow instability in hydraulic turbine diffuser by different methods of water injection, EFM17 - EXPERIMENTAL FLUID MECHANICS 2017, Vol. 180, Article Number 02090. DOI: 10.1051/epjconf/201818002090 (WOS:000454317800091)</p>	<p>DOI: 10.1051/epjconf/2018 01818002090</p>	0	1.00
<p>Goyal R., Gandhi B.K., Cervantes M.J. (2017) Experimental study of mitigation of a spiral vortex breakdown at high Reynolds number under an adverse pressure gradient, Physics of Fluids, Vol. 29, Issue 10, Article Number 104104. DOI: 10.1063/1.4999123 (WOS:000414227600037)</p>	<p>DOI: 10.1063/1.4999123 2017 3</p>	3.514	4.51
<p>Javadi A., Nilsson H., (2017) Active flow control of the vortex rope and pressure pulsations in a swirl generator, Engineering Applications of Computational Fluid Mechanics, Vol. 11, Issue 1, pp: 30-41. DOI: 10.1080/19942060.2016.1235515 (WOS:000386338500003)</p>	<p>DOI: 10.1080/19942060 2017 0.2016.1235515</p>	5.8	6.80
<p>Abbas A., Kumar A., (2017) Development of draft tube in hydro-turbine: a review, International Journal of Ambient Eenergy, Vol. 38, Issue 3 Pages: 323-330 . DOI: 10.1080/01430750.2015.1111845 (WOS:000396854700016)</p>	<p>DOI: 10.1080/01430750 2017 0.2015.1111845</p>	0	1.00

<p>Rajan G.K., Cimbala J.M. (2017) Computational and Theoretical Analyses of the Precessing Vortex Rope in a Simplified Draft Tube of a Scaled Model of a Francis Turbine, ASME Journal of Fluids Engineering, Vol. 139, Issue 2, Article Number 021102. DOI: 10.1115/1.4034693 (WOS:000395119800002)</p>	<p>DOI: 10.1115/1.403469 2017 3</p>	<p>2.056</p>	<p>3.06</p>
<p>Mohanta R.K., Chelliah T.R., Allamsetty S. et al. (2017) Sources of vibration and their treatment in hydro power stations-A review, Engineering Science and Technology - An International Journal- JESTECH Vol 20 Issue 2 Pages: 637-648 . DOI: 10.1016/j.jestch.2016.11.004 (WOS:000410698400024)</p>	<p>DOI: 10.1016/j.jestch.2 2017 016.11.004</p>	<p>3.219</p>	<p>4.22</p>
<p>Luo X.W., Yu A., Ji B., et al. (2017) Unsteady vortical flow simulation in a Francis turbine with special emphasis on vortex rope behavior and pressure fluctuation alleviation, Part A: Journal of Power and Energy, ISSN 0957-6509, Vol. 231, Issue 3, Pages 215-226, DOI: 10.1177/0957650917692153 (WOS:000400741100005)</p>	<p>DOI: 10.1177/0957650 2017 917692153</p>	<p>1.563</p>	<p>2.56</p>
<p>Chirkov D.V., Shcherbakov P.K., Cherny S.G. et al. (2017) Numerical investigation of the air injection effect on the cavitating flow in Francis hydro turbine, Thermophysics and Aeromechanics Vol 24 Issue 5 Pages: 691 - 703. DOI: 10.1134/S0869864317050055 (WOS:000418306000005)</p>	<p>DOI: 10.1134/S0869864 2017 317050055</p>	<p>0.423</p>	<p>1.42</p>

Chirkov D., Scherbakov P., Cherny S. et al. (2016) Mitigation of self-excited oscillations at full load: CFD analysis of air admission and effects of runner design IOP Conference Series-Earth and Environmental Science Vol. 49, Article Number 062025. DOI: 10.1088/1755-1315/49/6/062025 (WOS:000400156200084)	DOI: 10.1088/1755-1315/49/6/062025	2016 5	0	1.00
Luo X.-W., Jin B., Tsujimoto Y., (2016), A review of cavitation in hydraulic machinery, Journal of Hydrodynamics, Vol. 28, Issue 3, pp. 335-358. doi: 10.1016/S1001-6058(16)60638-8 (WOS:000379107000001)	doi: 10.1016/S1001-6058(16)60638-8	2016 6058(16)60638-8	2.265	3.27
Ji B., Wang J., Luo X., Miyagawa K., Xiao L.Z., Long X., Tsujimoto Y., (2016) Numerical simulation of cavitation surge and vortical flows in a diffuser with swirling flow, Journal of Mechanical Sciences and Technology, Vol. 30, Issue 6, pp. 2507-2514. DOI: 10.1007/s12206-016-0511-0 (WOS:000377935300010)	DOI: 10.1007/s12206-016-0511-0	2016 06-016-0511-0	1.345	2.35
Anup K.C., Lee Y.H., Thapa B., (2016) CFD study on prediction of vortex shedding in draft tube of Francis turbine and vortex control techniques, Renewable Energy, Vol 86, pp 1406-1421. DOI: 10.1016/j.renene.2015.09.041 (WOS:000364248300135)	DOI: 10.1016/j.renene.2015.09.041	2016 ene.2015.09.041	6.724	7.72
Chen Z.M., Singh P.M., Choi Y.D., (2016) The effect of runner blade loading on the performance and internal flow of a Francis hydro turbine model, Journal of Mechanical Science and Technology, Vol. 30, Issue 4, pp. 1617-1623. DOI: 10.1007/s12206-016-0317-0 (WOS:000374283100015)	DOI: 10.1007/s12206-016-0317-0	2016 016-0317-0	1.345	2.35



<p>An Y., Luo X.W., Bin J. (2016) Studies of the Effect of Vortex-Control Grooves on Pressure Oscillations in a Francis Turbine Draft Tube, PROCEEDINGS OF THE ASME/JSME/KSME JOINT FLUIDS ENGINEERING CONFERENCE, 2015, VOL 1A, PT 2 Article Number V01AT02A009 (WOS:000488884000012)</p>	<p>2016</p>	<p>0</p>	<p>1.00</p>
<p>Rudolf P., Stefan D., Klas R., (2015) Spatio-Temporal Description of the Swirling Flow in Hydraulic Turbine Draft Tube, WasserWirtschaft, Vol. 105, Issue 1, pp. 18-22. (WOS:000354657300005)</p>	<p>2015</p>	<p>0.078</p>	<p>1.08</p>
<p>Song P., Sun J.J., Wang K., (2015) Swirling and cavitating flow suppression in a cryogenic liquid turbine expander through geometric optimization, Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, Vol. 229, Issue 6, pp. 628-646. doi: 10.1177/0957650915589062 (WOS:000360408200005)</p>	<p>doi: 10.1177/0957650915589062 2015 915589062</p>	<p>1.563</p>	<p>2.56</p>
<p>Elbatran A.H., Yaakob O.B., Ahmed Y.M., Shabara, H.M., (2015) Operation, performance and economic analysis of low head micro-hydropower turbines for rural and remote areas: A review, Renewable and Sustainable Energy Reviews, Vol. 43, pp. 40-50. doi: 10.1016/j.rser.2014.11.045 (WOS:000348880600004)</p>	<p>doi: 10.1016/j.rser.2014.11.045 2015 4.11.045</p>	<p>12.11</p>	<p>13.11</p>

<p>Yu A., Luo X.W., Ji B. (2015) Analysis of ventilated cavitation around a cylinder vehicle with nature cavitation using a new simulation method,  Science Bulletin, Vol. 60 , Issue 21 Pages: 1833-1839. DOI: 10.1007/s11434-015-0916-7 (WOS:000364144100004)</p>	<p>DOI:  10.1007/s11434-  2015 015-0916-7</p>	<p>9.511</p>	<p>10.51</p>
<p>Dijkstra H.A., Wubs F.W., Cliffe A.K., Doedel E., Dragomirescu I.F., Eckhardt B., Gelfgat A.Yu., Hazel A.L., Lucarini V., Salinger A.G., Phipps E.T., Sanchez-Umbria J., Schuttelaars H., Tuckerman L.S., Thiele U., (2014) Numerical Bifurcation Methods and their Application to Fluid Dynamics: Analysis beyond Simulation, Communications in Computational Physics, Vol 15, Issue 1, pp 1-45. DOI: 10.4208/cicp.240912.180613a (WOS:000328279800001)</p>	<p>DOI:  10.4208/cicp.2409  2014 12.180613a</p>	<p>2.607</p>	<p>3.61</p>
<p>Zuo Z.G., Liu S.H., Liu D.M., Qin D.Q., (2014) Numerical predictions and stability analysis of cavitating draft tube vortices at high head in a model Francis turbine, Science China-Technological Sciences, Vol 57, Issue 11, pp 2106-2114. doi: 10.1007/s11431-014-5618-x (WOS:000345484100003)</p>	<p>doi:  10.1007/s11431-  2014 014-5618-x</p>	<p>2.302</p>	<p>3.30</p>
<p>Jain S.V., Patel R.N., (2014) Investigations on pump running in turbine mode: A review of the state-of-the-art, Renewable and Sustainable Energy Reviews, Vol 30, pp. 841-868, DOI: 10.1016/j.rser.2013.11.030 (WOS:000331421800066)</p>	<p>DOI:  10.1016/j.rser.201  2014 3.11.030</p>	<p>12.11</p>	<p>13.11</p>

Foroutan H., Yavuzkurt S., (2014) Flow in the Simplified Draft Tube of a Francis Turbine Operating at Partial Load—Part 2: Control of the Vortex Rope, Journal of Applied Mechanics ASME, Vol. 81, Issue 6, Paper No. 061011 doi:10.1115/1.4026818 (WOS:000338201600011)	doi:10.1115/1.402 2014 6818	2.671	3.67
Shingai K., Okamoto N., Tamura Y., Tani K., (2014) Long-period pressure pulsation estimated in numerical simulation for excessive flow rate condition of Francis turbine, ASME Journal of Fluids Engineering, ISSN 0098-2202, Vol. 136, Issue 7, Article no 071105, DOI: 10.1115/1.4026584 (WOS:000337045900005)	DOI: 10.1115/1.402658 2014 4	2.056	3.06
Su W.-T., Li X.-B., Li F.-C., Wei X.-Z., Han W.-F., Liu S.-H., (2014) Experimental investigation on the characteristics of hydrodynamic stabilities in Francis hydroturbine models, Advances in Mechanical Engineering, Paper ID 486821 doi: 10.1155/2014/486821 (WOS:000333842900001)	doi: 10.1155/2014/486 2014 821	1.161	2.16
Su W.-T., Li X.-B., Li F.-C., Wei X.-Z., Liu J.T., Wu Y.L., (2014) On the Flow Instabilities and Turbulent Kinetic Energy of Large-Scale Francis Hydroturbine Model at Low Flow Rate Conditions, Advances in Mechanical Engineering, Paper ID 786891 doi: 10.1155/2014/786891 ( WOS:000339771100001)	doi: 10.1155/2014/786 2014 891	1.161	2.16
Turkmenoglu V., (2013) The vortex effect of Francis turbine in electric power generation, Turkish Journal of Electrical Engineering and Computer Science, Vol 21, Issue 1, pp. 26-37. DOI: 10.3906/elk-1105-45 (WOS:000322742800002)	DOI: 10.3906/elk- 2013 1105-45	0.682	1.68

<p>Tian X.Q., Zheng Y., Pan H.C., Sun B., (2013) Numerical and Experimental Study on a Model Draft Tube with Vortex Generators, Advances in Mechanical Engineering, Paper ID 509314 doi: 10.1155/2013/509314 (WOS:000328384300001)</p>	<p>doi: 10.1155/2013/509314</p>	<p>1.161</p>	<p>2.16</p>
<p>Foroutan H., Yavuzkurt S. (2013) Analysis and Prevention of Vortex Rope Formation in the Draft Tube Cone of a Hydraulic Turbine, Conference: ASME International Mechanical Engineering Congress and Exposition, Houston, TX Date: NOV 09-15, 2012 VOL 7, PTS A-D Pages: 2167-2177 . (WOS:000350071100244)</p>	<p>2013</p>	<p>0</p>	<p>1.00</p>
<p>Qian Z., Li W., Huai W., Wu Y., (2012) The effect of runner cone design on pressure oscillation characteristics of the Francis hydraulic turbine, Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, Vol. 226, No. 6, pp. 137-150 doi: 10.1177/0957650911422865 (WOS:000305614900013)</p>	<p>doi: 10.1177/0957650911422865</p>	<p>1.563</p>	<p>2.56</p>
<p>Topor M., Bistran D.A. (2012) Localization of the Most Amplified Perturbation in a Vortex Rope Located in Francis Turbine at Partial Discharge, AIP Conference Proceedings Vol 1493 Pages: 1047-1053 DOI: 10.1063/1.4765617 (WOS:000312264400156)</p>	<p>DOI: 10.1063/1.4765617</p>	<p>0</p>	<p>1.00</p>

Li Z.C., Chang J., Ji X.Y. et al. (2012) Hydraulic Disturbance Method to Reduce the Pressure Fluctuation in Francis Turbine Draft Tube PROCEEDINGS OF THE ASME/JSME/KSME JOINT FLUIDS ENGINEERING CONFERENCE 2011, VOL 1, PTS A-D, Pages: 649-653 (WOS:000308618000076)	2012	0	1.00
Cai Q.-D., (2011) Lattice Boltzmann simulation of flows in bifurcate channel at rotating inflow boundary conditions and resulted different outflow fluxes, Acta Mechanica Sinica, Vol. 27, Issue 4, pp. 510- 518, DOI 10.1007/s10409-011-0466-4 (WOS:000294494600006)	DOI 10.1007/s10409- 2011 011-0466-4	1.897	2.90
Qian Z.D., Zheng B., Xuai W.X., Lee Y.H., (2010) Analysis of pressure oscillations in a Francis hydraulic turbine with misaligned guide vanes, Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, Vol. 224, No. 1, pp. 139- 152, doi: 10.1243/09576509JPE736 (WOS:000275649500013)	doi: 10.1243/0957650 2010 9JPE736	1.563	2.56
Garcia F.C., Viveros C.A.M., (2010) Experimental analysis of the vibration on the draft tube of a Francis hydraulic turbine during operation at different power levels, Revista Facultad de Ingenieria – Universidad de Antioquia, Issue 55, pp. 90-98. (WOS:000281570600010)	2010		1.00
Fay A.A. (2010) Analysis of low-frequency pulsations in Francis turbines, IOP Conference Series-Earth and Environmental Science, Vol 12 Article Number 012015 DOI: 10.1088/1755-1315/12/1/012015 (WOS:000325657000015)	DOI: 10.1088/1755- 1315/12/1/01201 2010 5	0	1.00

Kirschner O., Schmidt H., Ruprecht A. et al. (2010) Experimental investigation of vortex control with an axial jet in the draft tube of a model pump-turbine, IOP Conference Series-Earth and Environmental Science, Vol. 12, Article Number 012092. DOI: 10.1088/1755-1315/12/1/012092 (WOS:000325657000092)

Ojima A., Kamemoto K. (2010) Vortex method simulation of 3D and unsteady vortices in a swirling flow apparatus experimented in "Politehnica" University of Timisoara, IOP Conference Series-Earth and Environmental Science, Vol. 12, Article Number: 012065. DOI: 10.1088/1755-1315/12/1/012065 (WOS:000325657000065)

Casanova F., (2009) Failure analysis of the draft tube connecting bolts of a Francis-type hydroelectric power plant, Engineering Failure Analysis, Vol. 16, Issue 7, pp. 2202-2208, 2009, doi:10.1016/j.engfailanal.2009.03.003 (WOS:000268566500022)

Zhang, RK., Mao F., Wu JZ., Chen SY., Wu YL., Liu SH., (2009) Characteristics and Control of the Draft-Tube Flow in Part-Load Francis Turbine, ASME Journal of Fluids Engineering, Vol. 131, Issue 2, Article number 021101, DOI: 10.1115/1.3002318 (WOS:000262531400001)

2010	2	0	1.00
2010	5	0	1.00
2009	3	2.897	3.90
2009	8	2.056	3.06

DOI:  
10.1088/1755-  
1315/12/1/01209

DOI:  
10.1088/1755-  
1315/12/1/01206

doi:10.1016/j.engf  
ailanal.2009.03.00

DOI:  
10.1115/1.300231

<p><b>Muntean S.</b>, Balint D., Susan-Resiga R.F., Bernad S., Anton I. (2006) Analytical representation of the swirling flow upstream the Kaplan turbine runner for variable guide vane opening, in Proceedings of the 23rd IAHR Symposium on Hydraulic Machinery and Systems, Yokohama, Paper no. F151.</p>	<p>Bozic I, (2017) Determination of hydraulic losses in the flow passage between the guide vanes and runner of the Kaplan turbine, Journal of Hydraulic Research, Vol. 55, Issue 3, Pages 349-361 . DOI: 10.1080/00221686.2016.1250831 (WOS:000400245900005)</p>	<p>DOI: 10.1080/0022168 2017 6.2016.1250831</p>	<p>2.098</p>	<p>3.10</p>
<p>Susan-Resiga R., Miloş T., Baya A., <b>Muntean S.</b>, Bernad S., (2005) Mathematical and numerical models for axisymmetric swirling flows for turbomachinery applications, Workshop on Vortex Dominated Flows - Achievements and Open Problems, "Politehnica" University of Timișoara, România, June 10–11, 2005.</p>	<p>Kulkarni A.A., Ranade V.V., Rajeev R., Koganti S.B., (2008) CFD simulation of flow in vortex diodes, AIChE Journal, Vol. 54, Issue 5., pp. 1139-1152, DOI: 10.1002/aic.11439 (WOS:000255046700003)</p>	<p>DOI: 2008 10.1002/aic.11439</p>	<p>3.519</p>	<p>4.52</p>
<p><b>Muntean S.</b>, (2005) High performance computing for 3D unsteady swirling flow simulation in draft tube, Technical report, HPC Europa Program, Stuttgart University, Germany.</p>	<p>Sentyabov V., Gavrilov A.A., and Dekterev A.A., (2011) Investigation of turbulence models for computation of swirling flows, Thermophysics and Aeromechanics, Vol. 18, No. 1, pp. 73 – 85. DOI: 10.1134/S086986431101009 (WOS:000293631100009)</p>	<p>DOI: 10.1134/S086 2011 986431101009</p>	<p>0.423</p>	<p>1.42</p>
<p><b>Muntean S.</b>, Ruprecht A., Susan-Resiga R. (2005) A numerical investigation of the 3D swirling flow in a pipe with, constant diameter. Part 1: Inviscid computation, Workshop on Vortex Dominated Flows - Achievements and Open Problems, "Politehnica" University of Timișoara, România, June 10–11, 2005. Scientific Bulletin of the "Politehnica" University of Timisoara, Transactions on Mechanics, Tom 50(64), pp. 77-86.</p>	<p>Skripkin S., Tsoy M., Kuibin P., et al. (2019) Swirling flow in a hydraulic turbine discharge cone at different speeds and discharge conditions, Experimental Thermal and Fluid Science, Vol. 100, Pages 349-359. DOI: 10.1016/j.expthermflusci.2018.09.015 (WOS:000449900300027)</p>	<p>DOI: 10.1016/j.expther mflusci.2018.09.01 2019 5</p>	<p>3.444</p>	<p>4.44</p>
	<p>Cvetkovski C.G., Mozaffari H.S., Reitsma S. et al. (2014) On Fluid Flow and Heat Transfer in a Pipe with a U-Bend PROCEEDINGS OF THE ASME SUMMER HEAT TRANSFER CONFERENCE - 2013, VOL 1 Article Number: V001T01A016 (WOS:000360414400016)</p>	<p>2014</p>	<p>0</p>	<p>1.00</p>

Skerlavaj A., Lipej A., Ravnik J. et al. (2010) Turbulence model comparison for a surface vortex simulation, IOP Conference Series- Earth and Environmental Science, Vol. 12. Article Number 012034. DOI: 10.1088/1755-1315/12/1/012034 (WOS:000325657000034)

Kulkarni A.A., Ranade V.V., Rajeev R., Koganti S.B., (2008) CFD simulation of flow in vortex diodes, AIChE Journal, ISSN 0001-1541, Vol. 54, Issue 5., pp. 1139-1152, DOI: 10.1002/aic.11439 (WOS:000255046700003)

Benim A.C., Gul F., Pasqualotto E., (2007) Influence of the inlet swirl velocity profile shape on swirl decay in laminar pipe flow, Progress in Computational Fluid Dynamics, Vol. 7, Issue 6, pp. 347-353. (WOS:000248670100005)

Mogili S., Cui J. (2007) Numerical study of turbulent flow in a tangentially injected swirl generator, FEDSM 2007: PROCEEDINGS OF THE 5TH JOINT AMSE/JSME FLUIDS ENGINEERING SUMMER CONFERENCE VOL 1, PTS A AND B Pages: 1951-1959 . (WOS:000252340100227)

Zonta F., Marchioli C., Soldati A., (2013) Particle and droplet deposition in turbulent swirled pipe flow, International Journal of Multiphase Flow, vol. 56, Issue 10, pp. 172-183. DOI: 10.1016/j.ijmultiphaseflow.2013.06.002 (WOS:000324442900016)

**Muntean S., Buntic I., Ruprecht A., Susan-Resiga R. (2005) A numerical investigation of the 3D swirling flow in a pipe with constant diameter. Part 2: Turbulent computation, Workshop on Vortex Dominated Flows - Achievements and Open Problems, "Politehnica" University of Timișoara, România, June 10–11, 2005. Scientific Bulletin of the "Politehnica" University of Timisoara, Transactions on Mechanics, Tom 50(64) pp. 87-94.**

2010	4	DOI: 10.1088/1755-1315/12/1/012034	0	1.00
2008	10.1002/aic.11439	DOI: 10.1002/aic.11439	3.519	4.52
2007			0.507	1.51
2007			0	1.00
2013	002	DOI: 10.1016/j.ijmultiphaseflow.2013.06.002	3.083	4.08



Susan-Resiga R., Avellan F., Ciocan GD., <b>Muntean S.</b> , Anton I., (2005) Mathematical and numerical modeling of the swirling flow in Francis Turbine Draft Tube Cone, Workshop on Vortex Dominated Flows - Achievements and Open Problems, "Politehnica" University of Timișoara, România, June 10–11, 2005. Scientific Bulletin of the "Politehnica" University of Timisoara, Transactions on Mechanics, Tom 50(64), pp. 1-16.	Skerlavaj A., Lipej A., Ravnik J. et al. (2010) Turbulence model comparison for a surface vortex simulation, IOP Conference Series- Earth and Environmental Science, Vol. 12. Article Number 012034. DOI: 10.1088/1755-1315/12/1/012034 (WOS:000325657000034)	DOI: 10.1088/1755-1315/12/1/012034 2010 4	0	1.00
	Galvan S., Reggio M., Guibault F., (2015) Numerical Optimization of the Inlet Velocity Profile Ingested by the Conical Draft Tube of a Hydraulic Turbine, ASME Journal of Fluids Engineering, Vol. 137, Issue 7, Article no. 071102. doi: 10.1115/1.4029837 (WOS:000355700200002)	doi: 10.1115/1.402983 2015 7	2.056	3.06
	Dragomirescu F.I. (2012) Efficient polynomials based method for a temporal stability investigation in a swirling flow stability problem AIP Conference Proceedings Vol 1493 Pages 322-329 DOI: 10.1063/1.4765508 (WOS:000312264400048)	DOI: 10.1063/1.476550 2012 8	0	1.00
	Zhang, RK., Mao F., Wu JZ., Chen SY., Wu YL., Liu SH., (2009) Characteristics and Control of the Draft-Tube Flow in Part-Load Francis Turbine, ASME Journal of Fluids Engineering, Vol. 131, Issue 2, Article number 021101, DOI: 10.1115/1.3002318 (WOS:000262531400001)	DOI: 10.1115/1.300231 2009 8	2.056	3.06
Bernad S., <b>Muntean S.</b> , Susan R., Anton I. (2005) Vorticity in hydraulic equipment, in Proceedings of the Workshop on Vortex Dominated Flows, Timisoara, Romania.	Zeid A., Shouman M. (2019) Flow-Induced Vibration on the Control Valve with a Different Concave Plug Shape Using FSI Simulation, Shock and Vibration, Vol. 2019, Article Number 8724089. DOI: 10.1155/2019/8724089 (WOS:000486412800005)	DOI: 10.1155/2019/872 2019 4089	1.298	2.30

<p><b>Muntean S.,</b> Susan-Resiga R., Bernad S., Anton I., (2004) Analysis of the GAMM Francis Turbine Distributor 3D Flow for the Whole Operating Range and Optimization of the Guide Vane Axis Location, Scientific Bulletin of the Politehnica University of Timisoara, Transactions on Mechanics, Tom 49(63), Special Issue, pp: 131- 136.</p>	<p>Jalil J.M., Ahmed S.T., Xue Y. et al. (2015) Experimental and numerical investigation of fluid flow of truncated conical poppet valve, International Journal of Fluid Power, Vol. 16, Issue 1 Pages 25-34. DOI: 10.1080/14399776.2015.1017360 (WOS:000218030000003)</p>	<p>DOI: 10.1080/1439977 2015 6.2015.1017360</p>	0	1.00
	<p>Celebioglu K., Aytac Y., Fatma Z. (2020) Numerical investigation of the effects of design parameters on hydraulic turbine guide vane design, Pamukkale University Journal of Engineering Sciences - Pamukkale Universitesi Muhendislik Bilimleri Dergisi Vol. 26 Issue 4 Pages 666 - 673. DOI: 10.5505/pajes.2019.70850 (WOS:000560913600013)</p>	<p>DOI: 10.5505/pajes.201 2020 9.70850</p>	0	1.00
	<p>Arispe TM., de Oliveira W., Ramirez RG., (2018) Francis turbine draft tube parameterization and analysis of performance characteristics using CFD techniques, Renewable energy, Vol. 127, pp. 114-124. DOI: 10.1016/j.renene.2018.04.055 (WOS:000437077300012)</p>	<p>DOI: 10.1016/j.renene. 2018 2018.04.055</p>	6.274	7.27
	<p>Sutikno P. (2010) Numerical Simulation of the Francis Turbine and CAD used to Optimized the Runner Design (2nd). AIP Conference Proceedings Vol. 1225, Pages 816-825. DOI: 10.1063/1.3464932 (WOS:000283704700082)</p>	<p>DOI: 10.1063/1.346493 2010 2</p>	0	1.00

<p><b>Muntean S.,</b> Balint D., Susan-Resiga R., Anton I., Darzan C. (2004) 3D Flow analysis in the spiral case and distributor of a Kaplan turbine, in Proceedings of 22nd IAHR Symposium on Hydraulic Machinery and Systems, June 29 – July 2, 2004, Stockholm, Sweden. paper no. A10-2</p>	<p>Zhou D., Zhang L. (2014) CFD Research on Francis Pump-Turbine Load Rejection Transient under Pump Condition, PROCEEDINGS OF THE ASME INTERNATIONAL MECHANICAL ENGINEERING CONGRESS AND EXPOSITION, 2013, VOL 7B Article Number: V07BT08A050. (WOS:000359960200050)</p>	<p>2014</p>	<p>0</p>	<p>1.00</p>
	<p>Luo Y., Wang ZW., Zhang J., Zeng J., Lin J.Y, Wang G.Q., (2013) Vibration and fatigue caused by pressure pulsations originating in the vaneless space for a Kaplan turbine with high head, Engineering Computations, Vol 30 Issue 3, pp. 448-463, 2013. DOI: 10.1108/02644401311314376 (WOS:000318130200007)</p>	<p>DOI: 10.1108/0264440 2013 1311314376</p>	<p>1.322</p>	<p>2.32</p>
	<p>Liu SH, Li SC., Wu YL., (2009) Pressure Fluctuation Prediction of a Model Kaplan Turbine by Unsteady Turbulent Flow Simulation, ASME Journal of Fluids Engineering, ISSN 0098-2202, Vol. 131, Issue 10, Article number 101102, DOI: 10.1115/1.3184025 (WOS:000270377900002)</p>	<p>DOI: 10.1115/1.318402 2009 5</p>	<p>2.056</p>	<p>3.06</p>
	<p>Liu SH., Mai JQ., Shao J., Wu YL., (2009) Pressure pulsation prediction by 3D turbulent unsteady flow simulation through whole flow passage of Kaplan turbine, Engineering Computations, Vol. 26 Issue 7-8, pp. 1006-1025, DOI: 10.1108/02644400910996871 (WOS:000272105500014)</p>	<p>DOI: 10.1108/0264440 2009 0910996871</p>	<p>1.322</p>	<p>2.32</p>

	<p>Liu S.-H., Wu Y.L., Chen I.J., Nishi M., (2009) Development of Numerical Performance Test Stand for a Kaplan Turbine, International Journal of Turbo &amp; Jet-Engines, Vol. 26, Issue 4, pp. 253-262. ISSN: 0334-0082 doi: 10.1515/TJJ.2009.26.4.253 (WOS:000280744400003)</p>	<p>doi: 10.1515/TJJ.2009. 2009 26.4.253</p>	<p>0.733</p>	<p>1.73</p>
	<p>Liu S.-H., Shao J., Wu S.F., Wu Y.L., (2008) Numerical simulation of pressure fluctuation in Kaplan turbine, Science in China Series E: Technological Sciences, Vol. 51, Issue 8, pp 1137-1148. ISSN: 1006-9321, doi: 10.1007/s11431-008-0159-9 (WOS:000257400100006)</p>	<p>doi: 10.1007/s11431- 2008 008-0159-9</p>	<p>1.019</p>	<p>2.02</p>
<p><b>Muntean S., Resiga R., Bernad S., Anton I., (2004) 3D Turbulent Flow Analysis of the GAMM Francis Turbine for Variable Discharge, in Proceedings of 22nd IAHR Symposium on Hydraulic Machinery and Systems, June 29 – July 2, 2004, Stockholm, Sweden. paper no. A11-2</b></p>	<p>Arispe TM., de Oliveira W., Ramirez RG., (2018) Francis turbine draft tube parameterization and analysis of performance characteristics using CFD techniques, Renewable energy, Vol. 127, pp. 114-124. DOI: 10.1016/j.renene.2018.04.055 (WOS:000437077300012)</p>	<p>DOI: 10.1016/j.renene. 2018 2018.04.055</p>	<p>6.274</p>	<p>7.27</p>
	<p>Galvan S., Reggio M., Guibault F., (2015) Numerical Optimization of the Inlet Velocity Profile Ingested by the Conical Draft Tube of a Hydraulic Turbine, ASME Journal of Fluids Engineering, Vol. 137, Issue 7, Article no. 071102. doi: 10.1115/1.4029837 (WOS:000355700200002)</p>	<p>doi: 10.1115/1.402983 2015 7</p>	<p>2.056</p>	<p>3.06</p>
	<p>Galvan S., Rubio C., Pacheco J., Mendoza C., Toledo M., (2013) Optimization methodology assessment for the inlet velocity profile of a hydraulic turbine draft tube. Part I – computer optimization techniques, Journal of Global Optimization, Vol. 55, Issue 1, pp. 53-72 DOI 10.1007/s10898-012-9946-8 (WOS:000313453900006)</p>	<p>DOI 10.1007/s10898- 2013 012-9946-8</p>	<p>1.805</p>	<p>2.81</p>

<p><b>Muntean S.</b>, Susan-Resiga R.F., Bernad S., Anton I., (2004) Analysis of the GAMM Francis turbine distributor 3D flow for the operating range and optimization of the guide vane axis location, in Proceedings of the 6th International Conference on Hydraulic Machinery and Hydrodynamics, October 21–22, Timisoara, Romania, pp. 131-136.</p>	<p>Ciubotariu C.R., Secosan E., Marginean G., Frunzaverde D., Campian V.C., (2016) Experimental Study Regarding the Cavitation and Corrosion Resistance of Stellite 6 and Self-Fluxing Remelted Coatings, Strojinski Vestnik – Journal of Mechanical Engineering, Vol. 52, Issue 3, pp. 154-162 DOI: 10.5545/sv-jme.2015.2663 (WOS:000372211200002)</p>	<p>DOI: 10.5545/sv-2016-jme.2015.2663</p>	<p>1.377</p>	<p>2.38</p>
	<p>Brugiere O., Balarac G., Corre C., Metais O, Flores E, Leroy P., (2013) Numerical optimization of a Francis turbine's guide vane axis location including inflow uncertainties, Houille Blanche-Revue Internationale de l'Eau, Vol 3, pp. 36-41 DOI: 10.1051/1hb/2013023 (WOS:000322298500005)</p>	<p>DOI: 10.1051/1hb/2013 2013 023</p>	<p>0.265</p>	<p>1.27</p>
	<p>Kumar P., Saini R.P., (2010) Study of cavitation in hydro turbines-A review, Renewable and Sustainable Energy Reviews, Vol. 14, Issue 1, pp. 374-383. DOI: 10.1016/j.rser.2009.07.024 (WOS:000271279100025)</p>	<p>DOI: 10.1016/j.rser.2009.07.024</p>	<p>12.11</p>	<p>13.11</p>
<p>Bernad S., <b>Muntean S.</b>, Susan-Resiga R.S., Anton, I., (2004) Numerical simulation of two-phase cavitating flow in turbomachines. in Proceedings of the 6th International Conference on Hydraulic Machinery and Hydrodynamics, October 21–22, Timisoara, Romania.</p>	<p>Gohil P.P., Saini R.P., (2016) Numerical Study of Cavitation in Francis Turbine of a Small Hydro Power Plant, Journal of Applied Fluid Mechanics, Vol. 9, Issue 1, pp. 357-365 (WOS:000368753600011)</p>	<p>2016</p>	<p>0.689</p>	<p>1.69</p>
	<p>Gohil P.P., Saini R.P., (2015) Effect of temperature, suction head and flow velocity on cavitation in a Francis turbine of small hydro power plant, Energy, Vol. 93, Part 1, pp. 613-624 10.1016/j.energy.2015.09.042 (WOS:000367630200057)</p>	<p>DOI: 10.1016/j.energy.2015 015.09.042</p>	<p>6.082</p>	<p>7.08</p>

	Asok S.P., Sankaranarayanan K., Sundararajan T., Vaidyanathan G., Udhaya Kumar K., (2011) Pressure drop and cavitation investigations on static helical-grooved square, triangular and curved cavity liquid labyrinth seals, Nuclear Engineering and Design, Vol. 241, Issue 3, pp. 843–853. DOI: 10.1016/j.nucengdes.2010.12.006 (WOS:000289215800039)	DOI: 10.1016/j.nucengdes.2010.12.006	2011 6	1.62	2.62
Resiga R., <b>Muntean S.</b> , Bernad S., Anton I., (2003) Numerical Investigation of 3D Cavitating Flow in Francis Turbines”, Proceedings of the Conference on Modelling Fluid Flow (CMFF’03), Vol. 2, pp. 950-957	Niedzwiedzka A., Lipinski S., Kornet S. (2017) Verification of CFD tool for simulation of cavitating flows in hydraulic systems, Journal of Hydroinformatics, Vol 19 Issue 5 Pages 653-665 DOI: 10.2166/hydro.2017.004 (WOS:000410556800003)	DOI: 10.2166/hydro.2017.004	2017 17.004	1.728	2.73
	Escaler X., Ekanger J.V., Francke H.H., Kjeldsen M., Nielsen T.K., (2015) Detection of Draft Tube Surge and Erosive Blade Cavitation in a Full – Scale Francis Turbine, ASME Journal of Fluids Engineering, Vol. 137, Issue 1 doi: 10.1115/1.4027541 (WOS:000348049600003)	doi: 10.1115/1.4027541	2015 1	2.056	3.06
	Biluš I., Predin A., Škerget L., (2007) The extended homogenous cavitation transport model, Journal of Hydraulic Research, Vol. 45, Issue 1, pp. 81-87 DOI: 10.1080/00221686.2007.9521746 (WOS:000246821600009)	DOI: 10.1080/00221686.2007.9521746	2007 686.2007.9521746	2.098	3.10
<b>Muntean S.</b> , Bernad S., Resiga R., Anton I., (2003) 3D cavitating flow in hydraulic Francis, Workshop on Numerical Methods in Fluid Mechanics and FLUENT Applications, Timisoara, Romania.	☐ Ayli E. (2019) Cavitation in Hydraulic Turbines, International Journal of Heat and Technology, Vol. 37, Issue 1, Pages 334 - 344. DOI: 10.18280/ijht.370140 (WOS:000463024100040)	DOI: 10.18280/ijht.370140	2019 140	0	1.00

Balint D., Susan-Resiga R., <b>Muntean S.</b> , (2003) "A numerical approach for the 3D flows in Kaplan turbines", Proceedings of The International Conference on Case Studies on Hydraulic Systems [CSHS'03], Editura VEDES Belgrad, Serbia, pp. 29-36.	Kumar P., Saini R.P., (2010) Study of cavitation in hydro turbines-A review, Renewable and Sustainable Energy Reviews, Vol. 14, Issue 1, pp. 374-383. DOI: 10.1016/j.rser.2009.07.024 (WOS:000271279100025)	DOI: 10.1016/j.rser.2009.07.024	12.11	13.11
	Mishra S., Singal S.K., Khatod D.K., (2012) "A review on electromechanical equipment applicable to small hydropower plants", International Journal of Energy Research, <b>36</b> . pp. 553-571 DOI: 10.1002/er.195 (WOS:000302014200001)	2012 DOI: 10.1002/er.195	3.741	4.74
			0.00	0.00
			0.00	0.00
			0.00	0.00
<b>Total</b>			<b>1829.01</b>	<b>1829.01</b>