

FIȘĂ STANDARDE MINIMALE CONCURS PROFESOR - DOMENIUL: INGINERIE MECANICĂ

Domeniul de activitate		Indicatori	Punctaj obținut	Punctaj minim grilă	Procent realizat în raport cu punctajul minim pt. prof. [%]	Îndeplinire indicatori
Activitatea didactică/profesională (A1)	A.1.1	N1	3.00	2	150	indicator indeplinit
		N1.1	2.00	1	200	indicator indeplinit
		N1.3	4.00	1	400	indicator indeplinit
	A.1.2	N2	15.00	4	375	indicator indeplinit
		N2.1	7.00	2	350	indicator indeplinit
Activitatea de cercetare (A2)	A2.1+A2.3	P1+P2	19.40	10	194	indicator indeplinit
		P1	18.30	6	305	indicator indeplinit
	A2.2	N3	12.00	10	120	indicator indeplinit
		N3.1	6.00	5	120	indicator indeplinit
	A2.4+A2.5	N4	3.00	2	150	indicator indeplinit
		N4.3	1.00	1	100	indicator indeplinit
Recunoașterea impactului activității (A3)	A3.1	S1+S2	355.87	50	712	indicator indeplinit
	A3.2	N5	17.00	10	170	indicator indeplinit
	A3.3	C	182.00	25	728	indicator indeplinit

Nume candidat	conf.univ.dr.ing. Adrian Ciprian STUPARU
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N1.1 Manuale suport de curs (conf. Fișei disciplinei)*Format tipărit/electronic (minim 100 pagini)**Coordonator/Prim autor*

Nr. crt	Autorii	Nr. autori	Titlul	Editura	Anul publicării	ISBN	Punctaj
1	Stuparu Adrian Ciprian, Anton Liviu	2	Hidrodinamica	Orizonturi universitare, Timișoara	2018	978-973-638-636-7	1.00
2	Stuparu Adrian Ciprian, Bosioc Alin	2	Pompe centrifuge	Editura Politehnica	2021	978-606-35-0421-1	1.00
Total							2.00



N1.2 Manuale suport de curs (conf. Fișei disciplinei)
Format tipărit/electronic (minim 100 pagini)
co-autor

Nr. crt	Autorii	Număr autori	Titlul	Editura	Anul publicării	ISBN	Punctaj
1	Anton Liviu, Baya Alexandru, <u>Stuparu Adrian Ciprian</u>	3	Măsurarea și monitorizarea mărimilor hidraulice în timp real	Orizonturi universitare, Timișoara	2009	978-973-638-408-0	1.00
Total							1.00



N1.3 Manuale suport de curs (conf. Fișei disciplinei)
Format electronic disponibil pe platforma universității - autor

Nr. crt	Autorii	Adesa de site	Anul postării	Nr. autori	Punctaj
1	<u>Stuparu Adrian Ciprian</u> , Anton Liviu	https://cv.upt.ro/pluginfile.php/409702/mod_resource/content/1/Anton_2019.pdf	2020	2	1.00
2	<u>Stuparu Adrian Ciprian</u>	https://cv.upt.ro/pluginfile.php/403741/mod_resource/content/1/SNMEH-curs.pdf	2020	1	1.00
3	<u>Stuparu Adrian Ciprian</u> , Bosioc Alin	https://cv.upt.ro/pluginfile.php/429428/mod_resource/content/2/Curs-PompeV2.pdf	2020	2	1.00
4	Anton Liviu, Baya Alexandru, <u>Stuparu Adrian Ciprian</u>	https://cv.upt.ro/pluginfile.php/520789/mod_resource/content/1/masurare-monitorizare.pdf	2020	3	1.00
Total					4.00



N2.1 Standuri laborator (construcție/modernizări) certificate de directorul de departament

Nr. crt	Denumire stand	Anul construcției/ modernizare	Punctaj
1	Stand multifuncțional pentru determinarea curbelor caracteristice de funcționare ale unei pompe centrifuge	2006	1.00
2	Stand de debitmetrie	2006	1.00
3	Stand de determinare a pierderilor hidraulice locale	2006	1.00
4	Stand pentru studiul funcționării unei turbine axiale	2006	1.00
5	Stand pentru studiul funcționării unui ventilator axial	2006	1.00
6	Stand pentru studiul funcționării pompelor legate în serie sau paralel	2006	1.00
7	Stand pentru studiul funcționării unei turbine Pelton	2006	1.00
Total			7.00



N2.2 Îndrumar laborator/carte aplicații format tipărit sau electronic
autor, co-autor

Nr.crt.	Autori	Nr. autori	Titlul	Anul editării	ISBN	Punctaj
1	Stuparu Adrian Ciprian	1	Fluid Mechanics	2011	electronic	1.00
2	Anton Liviu, Baya Alexandru, Balint Daniel, Stuparu Adrian Ciprian, Miloș Teodor, Bădărău Rodica, Bălășoiu Victor, Bej Adrian, Muntean Sebastian, Susan-Resiga Romeo	10	Mecanica fluidelor, mașini hidraulice și acționări. Aplicații de calcul	2004	973-638-076-9	1.00
3	Anton Liviu, Baya Alexandru, Miloș Teodor, Stuparu Adrian Ciprian	4	Hidrodinamică experimentală	2007	978-973-638-330-4	1.00
Total						3.00



N2.3 Aplicație informatică educațională

Nr.crt.	Denumirea conceptului	Platformă informatică	Punctaj
1	Curbe caracteristice ale pompelor	PiiF	1.00
2	Debit, înălțime de pompare	PiiF	1.00
3	Pompe serie	PiiF	1.00
4	Pompe paralel	PiiF	1.00
5	Calculul NPSH	PiiF	1.00
Total			5.00



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 (Număr)	Anul publicării	Nr. pagini (de la .. până la:)	Factor de impact în anul publicării	Punctaj
1	1	Stuparu Adrian Ciprian, Susan-Resiga Romeo, Tanasa Constantin	CFD Assessment of the Hydrodynamic Performance of Two Impellers for a Baffled Stirred Reactor	Applied Sciences, Special Issue Application of Computational Fluid Dynamics in Mechanical Engineering/2076-3417	11 (11)	2021	13	2.679	5.76
2	1	Stuparu Adrian Ciprian, Susan-Resiga Romeo, Bosioc Alin	Improving the Homogenization of the Liquid-Solid Mixture Using a Tandem of Impellers in a Baffled Industrial Reactor	Applied Sciences, Special Issue Application of Computational Fluid Dynamics in Mechanical Engineering/2076-3417	11 (12)	2021	11	2.679	5.76
3	1	Stuparu Adrian Ciprian, Susan-Resiga Romeo, Bosioc Alin	CFD Simulation of Solid Suspension for a Liquid-Solid Industrial Stirred Reactor	Applied Sciences, Special Issue Application of Computational Fluid Dynamics in Mechanical Engineering/2076-3417	11 (12)	2021	15	2.679	5.76
Total									17.27

* 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 asemanator 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 aparut 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	Număr autori	Nume autori	Titlul lucrării	Denumire jurnal/ ISSN	Volum (Număr)	Anul publicării	Nr. pagini (de la .. până la)	Factor de impact în anul publicării	Punctaj
										0.00
Total										0.00

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 (Număr)	Anul publicării	Nr. pagini (de la .. până la:)	Factor de impact în anul publicării	Punctaj
1								
Total								0.00

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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 (Număr)	Anul publicării	Nr. pagini (de la .. până la:)	Factor de impact în anul publicării	Număr autori	Punctaj
1	Romeo Susan-Resiga, Popescu Constantin, Szakal Raul, Sebastian Muntean, <u>Stuparu Adrian Ciprian</u>	A benchmark test case for swirling flows: design of the swirl apparatus, experimental data, and numerical challenges	IOP Conference Series: Earth and Environmental Science, Proceeding of 29th IAHR Symposium on Hydraulic Machinery and Systems/1755-1307	240	2019	10	0	5	0.12
2	Romeo Susan-Resiga, Sebastian Muntean, <u>Stuparu Adrian Ciprian</u> , Alin Bosioc, Constantin Tanasa, Cosmin Ighisan	A variational model for swirling flow states with stagnant region	European Journal of Mechanics B-Fluids/0997-7546	55	2016	12 (104-115)	1.418	6	0.81
3	Constantin Tanasa, Romeo Susan-Resiga, Sebastian Muntean, <u>Stuparu Adrian Ciprian</u> , Alin Bosioc, Tiberiu Ciocan	Numerical Assessment of a Novel Concept for Mitigating the Unsteady Pressure Pulsations Associated to Decelerating Swirling Flow with Precessing Helical Vortex	International Conference of Computational Methods in Science and Engineering, AIP Conference Proceedings/0094-243X	1702	2015	4	0	6	0.10
Total									1.03

N3.1 Articole și publicații BDI (neincluse în A2.1)
prim autor sau autor corespondent

Nr. crt.	Nume autori	Titlul lucrării	Denumire jurnal /ISSN	Volum (Număr)	Anul publicării	Nr. pagini (de la .. până la)	Punctaj
1	<u>Stuparu Adrian Ciprian</u> , Alexandru Baya, Alin Bosioc, Liviu Anton, Daniel Mos	Experimental investigation of a pumping station from CET power plant Timisoara	IOP Conference Series: Earth and Environmental Science, Proceeding of 29th IAHR Symposium on Hydraulic Machinery and Systems/1755-1307	240	2019	10	1.00
2	<u>Stuparu Adrian Ciprian</u> , Alexandru Baya, Alin Bosioc, Liviu Anton, Daniel Mos	Modelling the operation curves of two similar high power centrifugal pumps	PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON NUMERICAL ANALYSIS AND APPLIED MATHEMATICS 2017 (ICNAAM-2017)/0094-243X	1978	2018	4	1.00
3	<u>Stuparu Adrian Ciprian</u> , Susan-Resiga Romeo	The Complex Dynamics of the Precessing Vortex Rope in a Straight Diffuser	IOP Conference Series: Earth and Environmental Science, Proceeding of 28th IAHR Symposium on Hydraulic Machinery and Systems/1755-1307	49	2016	10	1.00
4	<u>Stuparu Adrian Ciprian</u> , Sorin Holotescu	Influence of Geometry on the Position and the Intensity of Maximum Kinetic Energy in a Combustion Chamber	Defect and Diffusion Forum, Diffusion in Solids and Liquids VI/1012-0386	312-315	2011	6 (725-730)	1.00
5	<u>Stuparu Adrian Ciprian</u> , Sorin Holotescu	Numerical simulation of the 3D unsteady turbulent flow in a combustion chamber	Central European Journal of Engineering/1896-1541	1 (2)	2011	6 (189-194)	1.00
6	<u>Stuparu Adrian Ciprian</u> , Susan-Resiga Romeo, Anton Liviu, Muntean Sebastian	Numerical investigation of the cavitational behaviour into a storage pump operating at off design operating points	IOP Conference Series: Earth and Environmental Science, Proceedings of the 25th IAHR Symposium on Hydraulic Machinery and Systems/1755-1307	12(1)	2010	10	1.00
Total							6.00



N3.2 Articole și publicații BDI (neincluse în A2.1)

co-autor

Nr. crt.	Nume autori	Titlul lucrării	Denumire jurnal / ISSN	Volum (Număr)	Anul publicării	Nr. pagini (de la .. până la)	Punctaj
1	Susan-Resiga Romeo, Muntean Sebastian, Bosioc Alin, <u>Stuparu Adrian Ciprian</u>	Stabilisation of the swirl exiting a Francis runner far from the best efficiency point	IOP Conference Series: Earth and Environmental Science, Proceeding of 30th IAHR Symposium on Hydraulic Machinery and Systems/1755-1307	774(1)	2021	9	1.00
2	Nemet Octavian, <u>Stuparu Adrian Ciprian</u> , Susan-Resiga Romeo	Design and optimization of an axial expansion turbine for energy recovery	Proceedings of the 9th International Conference on Energy and Environment 2019/978-1-7281-1532-0		2019	5	1.00
3	Tănasă Constantin, <u>Stuparu Adrian Ciprian</u> , Bosioc Alin, Susan-Resiga Romeo	Numerical Analysis of Pulsating Water Jet Method for Mitigating the Vortex Rope	Proceedings of the 9th International Conference on Energy and Environment 2019/978-1-7281-1532-0		2019	6	1.00
4	Tănasă Constantin, <u>Stuparu Adrian Ciprian</u> , Stroiță Cătălin, Popescu Constantin, Susan-Resiga Romeo	3D Numerical Analysis of Pulsating Water Jet in the Draft Tube Cone of Hydraulic Machinery	PROCEEDINGS OF THE INTERNATIONAL CONFERENCE OF COMPUTATIONAL METHODS IN SCIENCES AND ENGINEERING 2019 (ICCMSE-2019)/978-0-7534-1933-9	2186	2019	4	1.00
5	Romeo Susan-Resiga, Sebastian Muntean, <u>Stuparu Adrian Ciprian</u>	Francis turbine with tandem runners: a proof of concept	IOP Conference Series: Earth and Environmental Science, Proceeding of 29th IAHR Symposium on Hydraulic Machinery and Systems/1755-1307	240	2019	8	1.00
6	Alin I. Bosioc, <u>Stuparu Adrian Ciprian</u> , Romeo Susan-Resiga	Numerical Analysis of Temperature and Torque in A Magneto-Rheological Clutch	PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON NUMERICAL ANALYSIS AND APPLIED MATHEMATICS 2016 (ICNAAM-2016)/0094-243X	1863(1)	2017	4	1.00
Total							6.00



P2.1.1

Brevete internaționale indexate în Web of

Science-Derwent Innovation

Prim autor/autor corespondent

maxim 3 autori

Nr.crt.	Autori	Titlul brevetului/număr	Anul obținerii brevetului	Numar autori	Punctaj
					0.00
Total					0.00



P2.1.2 Brevete internaționale indexate în Web of
Science-Derwent Innovation
Prim autor/autor corespondent
minim 4 autori

Nr.crt.	Autori	Titlul brevetului/număr	Anul obținerii brevetului	Număr autori	Punctaj
					0.00
Total					0.00



P2.1.3 Brevete internationale indexate in Web of Science-Derwent

Innovation

Co-autor

maxim 3 autori

Nr.crt.	Autori	Titlul brevetului	Anul apariției	Număr autori	Punctaj
					0.00
Total					0.00



P2.1.4 Brevete internaționale indexate în Web of Science-Derwent Innovation

Co-autor

minim 4 autori inclusiv

Nr.crt.	Autori	Titlul brevetului	Anul apariției	Număr autori	Punctaj
1	Susan-Resiga Romeo Florin, Tanasa Constantin, Bosioc Alin Ilie, Ciocan Tiberiu, Stuparu Adrian Ciprian, Muntean Sebastian	Method and equipment for controlling the swirling flow through the conical diffuser of hydraulic turbines	2017	6	1.10
Total					1.10



P2.2.1 Brevete indexate OSIM
Prim autor/autor corespondent
maxim 3 autori

Nr.crt.	Autori	Titlul brevetului	Anul apariției	Număr autori	Punctaj
					0.00
Total					0.00

[Signature]

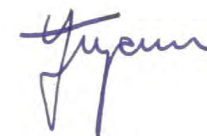
P2.2.2 Brevete indexate OSIM
Prim autor/autor corespondent
minim 4 autori inclusiv

Nr.crt.	Autori	Titlul brevetului	Anul aparitiei	Număr autori	Punctaj
					0.00
Total					0.00



**P2.2.3 Brevete indexate OSIM; co-autor;
maxim 3 autori**

Nr.crt.	Autori	Titlul brevetului	Anul apariției	Număr autori	Punctaj
					0.00
Total					0.00



**P2.2.4 Brevete indexate OSIM; co-autor;
minim 4 autori**

Nr.crt.	Autori	Titlul brevetului	Anul apariției	Număr autori	Punctaj
					0.00
Total					0.00



N4.1

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

Coordonator/prim autor

Nr.crt.	Denumire produs	Anul validării/mod validare (procedura)	Număr contributori	Punctaj
				0.00
Total				0.00



N4.2

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

Co-autor

Nr.crt.	Denumire produs	Anul validării/mod validare (procedura)	Număr contributori	Punctaj
1	Creșterea calității învățământului superior de inginerie - Platformă informatică pentru ingineria fluidelor - PiiF	2014/grant	7	1.00
Total				1.00



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

prim autor

Nr.crt.	Autori	Titlul	Editura	Anul editării	ISBN	Nr. pagini	Punctaj
1	Stuparu Adrian Ciprian, Susan-Resiga Romeo, Muntean Sebastian, Baya Alexandru, Anton Liviu	Specific problems of modern pumps	Editura Politehnica	2021	978-606-35-0433-4	109	1.00
Total							1.00



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

co - autor

Nr.crt.	Autori	Titlul	Editura	Anul editării	ISBN	Nr. pagini	Punctaj
1	Susan-Resiga Romeo, Muntean Sebastian, Baya Alexandru, Anton Liviu, Miloș Teodor, <u>Stuparu Adrian Ciprian</u>	Vortex flows and applications	Eurostampa, Timișoara	2007	978-973-687-659-2	492	1.00
Total							1.00



S1 Atragere resurse financiare prin granturi/proiecte/contracte terți
 Director sau responsabil partener la grant/proiect câștigat prin competiție națională sau internațională

Nr.crt.	Tip proiect *	Titlul proiectului	Nr. grant/contract	Perioada de derulare	Finanțator	Valoare totala UPT** [ech. Euro]	Punctaj
1	BRIDGE	Creșterea competitivității COLTERM prin optimizarea tehnologiei de antrenare cu turație variabilă a pompelor centrifuge de termoficare de mare putere	69BG	2016-2018	UEFISCDI	100,000	100.00
2	terți	Determinarea parametrilor de performanță garantați pentru două ansambluri pompă-motor-convertizor de frecvență ce funcționează la CET Centru și CET Sud	30/18.03.2015	2015	Compania locală de termoficare COLTERM S.A.	2,050	2.05
3	terți	Simularea și analiza numerică a curgerii aerului cu transfer termic prin convecție și radiație pentru sisteme de încălzire electrică aferent unui uscător electric	572	2006	S.C. Zoppas Industries Romania S.R.L.	1,430	1.43
Total							103.48

Se va specifica fie tipul competiției, fie terți în cazul contractelor cu mediul economic

Se va introduce valoarea fără TVA

Nr.crt.	Tip proiect *	Titlul proiectului	Nr. grant/contract	Perioada de derulare	Finanțator	Nr. membri echipă	Valoare totala UPT** [ech. Euro]	Valoare repartizată	Punctaj
1	grant	Free Runner for Swirling Flow Control at the Outlet of Hydraulic Turbines "FreeRunnerFlowContr"	TE 179/2020	2020-2022	UEFISCDI	6	23,460	3,910	3.91
2	terți	Servicii expert- asistenta tehnica, emitere rapoarte , participare sedinte de lucru si audieri in cadrul actiunii de arbitraj international ICC22482/MHM	26	2020-2021	S.C. Hidroelectrica S.A.	6	110,000	18,333	18.33
3	terți	Identificarea soluției optime pentru înlocuirea hidroagregatelor de la stația de pompare Cenad	19	2018	S.C. Emiliana West Rom S.R.L.	3	3,053	1,018	1.02
4	grant	Soluție inovatoare de dispozitiv magneto - reologic pentru îmbunătățirea performanțelor pompelor centrifuge, IRheoDev	TE-62	2015-2017	UEFISCDI	11	121,874	11,079	11.08
5	terți	Proiectare și verificare a sistemului de agitare din reactor în vederea conversiei instalației DOF în instalație de obținere a DOTP	50	2017	Oltchim S.A.	4	7,761	1,940	1.94
6	grant	Instabilități autoinduse ale curgerii cu rotație în turbine hidraulice la regimuri departe de regimul optim	PNII-17	2013-2016	UEFISCDI	7	327,111	46,730	46.73
7	terți	Numerical simulation of flow with heat convection and radiation for a dryer heating system in two different configurations	49	2012	S.C. Zoppas Industries Romania S.R.L.	3	4,346	1,449	1.45
8	grant	Cercetări de realizare soft CFD și model funcțional original sistem postcombustie, cu validarea rezultatelor	POSTCOMB 021-002/2007	2007-2010	CNMP	4	58,841	14,710	14.71
9	terți	Cercetări și experimentări privind îmbunătățirea performanțelor energetice și cavitaționale ale pompelor PRO 10-195 de la stația de pompe Jidoaia, etapa a II-a	BC 119	2009	S.C. Hidroelectrica S.A., Sucursala Râmnicu Vâlcea	5	33,378	6,676	6.68
10	terți	Cercetări și experimentări privind creșterea performanțelor turbinelor Francis 57.5-128.5 CHE Brădișor, etapa a II-a	BC 120	2009	S.C. Hidroelectrica S.A., Sucursala Râmnicu Vâlcea	5	41,505	8,301	8.30
11	grant	O nouă metodă de control a curgerii decelerate cu vârtej prin injecție de apă și feedback hidrodinamic	688	2009	IDEI PCE 799/2009	6	12,195	2,033	2.03
12	grant	Hidrogazodinamica și transferul de masă la coloane de bule fine cu aplicare în tehnologii avansate de mediu	TEHNOMED X2C05	2006-2008	CEEX	2	24,390	12,195	12.20
13	grant	Optimizarea computerizată a procesului de diagnostic intervenție terapeutică și prognostic a bolilor cardiovasculare	CARDIOCOMP M1-C2-1180	2006-2008	CEEX	4	87,561	21,890	21.89
14	grant	Modele și metode numerice avansate în ingineria navelor de transport gaze lichefiate	MARGAS X2C16	2007-2008	CEEX	5	44,293	8,859	8.86
15	grant	Integrarea tehnologiilor magneto-reologice speciale și al controlului avansat al curgerii în aplicații industriale	iSMART-Flow M1-C2-1185	2006-2008	CEEX	7	167,073	23,868	23.87
16	terți	Cercetări și experimentări privind îmbunătățirea performanțelor energetice și cavitaționale ale pompelor PRO 10-195 de la stația de pompe Jidoaia	BC 152	2008	S.C. Hidroelectrica S.A., Sucursala Râmnicu Vâlcea	5	37,732	7,546	7.55
17	terți	Cercetări și experimentări privind creșterea performanțelor turbinelor Francis 57.5-128.5 CHE Brădișor	BC 151	2008	S.C. Hidroelectrica S.A., Sucursala Râmnicu Vâlcea	5	39,183	7,837	7.84
18	terți	Numerical simulation of the pump hydrodynamics with heat transfer	147	2008	S.C. Zoppas Industries Romania S.R.L.	3	3,244	1,081	1.08
19	terți	Studii privind comportarea în exploatare a echipamentelor hidroenergetice	BC 738	2007	S.C. Hidroelectrica S.A., Sucursala Râmnicu Vâlcea	5	17,805	3,561	3.56
20	terți	Calculation of hydraulic behaviour of the mp3x water pump	771	2007	Hella Electronics România	4	2,666	667	0.67

21	grant	Hidrodinamica vârtejurilor și aplicații	33	2005-2007	CNCSIS A-Consorțiu	5	157,895	31,579	31.58
22	grant	Turbomachinery swirling flow optimisation and controll with technology of magnetorheological fluid systems	IB7320-110942	2006-2008	Swiss national science foundation	5	30,609	6,122	6.12
23	terți	Simularea și analiza numerică a curgerii cu transfer termic prin convecție și radiație pentru 4 variante geometrice al sistemului de încălzire electrică aferent unui uscător electric	462	2006	S.C. Zoppas Industries Romania S.R.L.	2	5,000	2,500	2.50
24	terți	Analiza soluției tehnice existentă pentru motorul electric de curent continuu tip C990/400-6-2 de 1600 kW, 750 V, 1000 rpm, cu evaluarea solicitărilor termo-mecanice din colector respectiv a funcționării sistemului de ventilație și răcire	212	2005	S.C. UCM Reșița S.A.	4	3,222	806	0.81
25	terți	Numerical simulation and analysis of the 3D turbulent flow taking into consideration both convection and radiation thermal effects for a simple heating element inserted in an air rectangular channel	44	2004	S.C. Zoppas Industries Romania S.R.L.	2	2,088	1,044	1.04
26	terți	Analiza curgerii și răcirii în circuitul interior de ventilație al motorului asincron cu rotorul în scurt circuit tip tis 1350/430-6 de 430 kw; 690 v; 215 -430 rpm	10	2004	S.C. UCM Reșița S.A.	4	2,000	500	0.50
27	terți	Determinarea debitului turbinat prin traseul hidraulic al hidroagregatelor de la CHE Gura Lotrului, Turnu, Dăești	Nr. 164-12.02/05.08.2004	2004	S.C. Hidroelectrica S.A., Sucursala Râmnicu Vâlcea	5	12,500	2,500	2.50
28	terți	Determinarea caracteristicilor hidraulice ale agregatelor de pompare din stațiile Jidoaia, Lotru Aval și Petrimanu	Nr. 76-12.02/05.05.2004	2004	S.C. Hidroelectrica S.A., Sucursala Râmnicu Vâlcea	5	16,750	3,350	3.35
29	terți	Analiza comparativă a două poziții ale coloanelor statorice și influența asupra câmpului hidrodinamic din rotorul turbinei Kaplan	146	2003	S.C. Hidroelectrica S.A., Sucursala Râmnicu Vâlcea	4	1250	313	0.31
								Total	252.39

* Se va specifica fie tipul competiției, fie terți în cazul contractelor cu mediul economic
** Se va introduce valoarea fără TVA

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

Nr. crt.	Tipul activității: conferință/congres=1; workshop internațional=2; profesor invitat=3	Denumire conferință/congress, workshop/Instituția unde a fost invitat	Anul / perioada (pt. prof. invitat)	Titlul lucrării susținute în calitate de autor sau co-autor/ Prelegeri expuse pt profesor invitat	Punctaj
1	1	International Symposium on Fluid Dynamics associated with the International Conference of Computational Methods in Sciences and Engineering 2019 (ICCMSE'2019), Rhodos, Grecia	2019	3D Numerical Analysis of Pulsating Water Jet in the Draft Tube Cone of Hydraulic Machinery	1.00
2	1	29th IAHR Symposium on Hydraulic Machinery and Systems, 2018, Kyoto, Japonia	2018	Experimental investigation of a pumping station from CET power plant Timisoara	1.00
3	1	PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON NUMERICAL ANALYSIS AND APPLIED MATHEMATICS 2017 (ICNAAM-2017), Salonic, Grecia	2017	Modelling the operation curves of two similar high power centrifugal pumps	1.00
4	1	28th IAHR Symposium on Hydraulic Machinery and Systems, 2016, Grenoble, Franța	2016	The Complex Dynamics of the Precessing Vortex Rope in a Straight Diffuser	1.00
5	1	Cavitation and dynamic problems, Proceedings of the 6th IAHR meeting of the working group, IAHRWG 2015, Ljubljana, Slovenia	2015	The origin of the plunging pressure fluctuations for a swirling flow with precessing vortex rope in a straight diffuser	1.00
6	2	10th German-Romanian Workshop on Turbomachinery Hydrodynamics, Stuttgart, Germania, 2014	2014	3D modelling of the swirling flow with Fluent	1.00
7	1	„6th International Conference on Diffusion in Solids and Liquids: Mass Transfer, Heat Transfer and Microstructure and Properties, DSL-2010, Paris, Franța	2010	Influence of Geometry on the Position and the Intensity of Maximum Kinetic Energy in a Combustion Chamber	1.00
8	1	25th IAHR Symposium on Hydraulic Machinery and Systems, 2010, Timișoara, România	2010	Numerical investigation of the cavitation behaviour into a storage pump operating at off design operating points	1.00
9	1	Conference on Modelling Fluid Flow (CMFF'09) The 14th International Conference on Fluid Flow Technologies, Budapest, Hungary, September 9-12, 2009	2009	Validation of the 2d numerical investigation methodology of the turbulent flow into an inducer with the 3d computation	1.00
10	1	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 cavitation behavior of a storage pump operating at best efficiency point	1.00

11	2	5th German-Romanian Workshop on Turbomachinery Hydrodynamics, Timisoara, Romaia, 2007	2009	NUMERICAL INVESTIGATION OF THE CAVITATIONAL BEHAVIOR OF A STORAGE PUMP	1.00
12	2	4th German-Romanian Workshop on Turbomachinery Hydrodynamics, Stuttgart, Germania, 2008	2008	Numerical investigation of the energetic and cavitational behaviour of a centrifugal pump with double flux	1.00
13	2	3rd German-Romanian Workshop on Turbomachinery Hydrodynamics, Timisoara, Romaia, 2007	2007	NUMERICAL ANALYSIS OF PUMP HYDRODYNAMICS AT CONSTANT SPEED	1.00
14	1	3rd International Conference on Energy and Environment CIEM2007, Bucharest, 22-23 November	2007	Development of a New Test Rig for Analysis and Control of Swirling Flows	1.00
15	2	2nd German-Romanian Workshop on Turbomachinery Hydrodynamics, Stuttgart, Germania, 2006	2006	Numerical investigation of the influence of the suction-elbow on the inlet flow field of a storage pump	1.00
16	2	1st German-Romanian Workshop on Turbomachinery Hydrodynamics, Timisoara, Romaia, 2005	2005	Thermodynamic method for efficiency analysis of hydraulic machines	1.00
17	1	International Conference "Case studies in hydraulic systems CSHS03", Belgrade, September 29- October 1, 2003	2003	Experimental investigation and optimisation of a pumping station operating point using the variable speed approach	1.00
Total					17.00

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C Citări în publicații BDI (WOS și Scopus)

Nota: se exclud autocitările

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Nr.crt.	Date de identificare complete ale articolul citat (se exclud autocitările)***	Date de identificare complete ale articolelor care citează	Anul în care a fost citată lucrarea	Linkul articolului care citează	Factorul de impact al publicației WOS în care apare citarea	Punctaj
1	Romeo Susan-Resiga, Stuparu Adrian Ciprian, Sebastian Muntean, Francis turbine with tandem runners: a proof of concept, IOP Conference Series: Earth and Environmental Science, Proceeding of 29th IAHR Symposium on Hydraulic Machinery and Systems/1755-1307,2019					
1.1		Ioannis Kougias, George Aggidis, François Avellan, Sabri Deniz, Urban Lundin, Alberto Moro, Sebastian Muntean, Daniele Novara, Juan Ignacio Pérez-Díaz, Emanuele Quaranta, Philippe Schild, Nicolaos Theodossiou, Analysis of emerging technologies in the hydropower sector, Renewable and Sustainable Energy Reviews/1364-0321	2019	https://www.sciencedirect.com/science/article/pii/S1364032119304575?via%3Dihub	12.110	13.11
1.2		Muhirwa A., Cai W.H., Su W.T., Liu Q., Binama M., Li B., Wu J., A Review on Remedial Attempts to Counteract the Power Generation Compromise from Draft Tubes of Hydropower plants, Renewable Energy/0960-1481	2020	https://www.sciencedirect.com/science/article/pii/S0960148119320208?via%3Dihub	6.274	7.27
1.3		Ede Oliveira Serrao Edivaldo Afonso, Silva Madson Tavares, Ferreira Thomas Rocha, de Paulo Rodrigues da Silva Vicente, de Salviano de Sousa Francisco, de Lima Aline Maria Meiguins, de Ataíde Lorena Conceicao Paiva, Wanzeler Romero Thiago Sobrinho, Land use change scenarios and their effects on hydropower energy in the Amazon, The Science of the total environment/0048-9697	2020	https://www.sciencedirect.com/science/article/pii/S0048969720345101	6.551	7.55
2	Romeo Susan-Resiga, Sebastian Muntean, Stuparu Adrian Ciprian, Alin Bosioc, Constantin Tanasa, Cosmin Ighişan, A variational model for swirling flow states with stagnant region, European Journal of Mechanics B-Fluids/0997-7546, 2016					
2.1		Rahul Goyal, Michel J. Cervantes, B. K. Gandhi, Vortex rope formation in a high head model Francis turbine, Journal of Fluids Engineering/0021-9223	2017	https://doi.org/10.1115/1.4035224	1.915	2.92

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2.2	Anton Alin, Muntean Sebastian, Susan-Resiga Romeo, 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 SCIENCE/1454-9069	2016	WOS:000394189900012	1.623	2.62
2.3	Szakai Raul, Bosioc Alin, Muntean Sebastian, Susan-Resiga Daniela, Vekas Ladislau, Experimental Investigations of a Magneto-Rheological Brake Embedded in a Swirl Generator Apparatus, Materials Design and Applications II/1869-8441/Scopus	2019	10.1007/978-3-030-02257-0_20		1.00
2.4	Jafar Nejadali, Alireza Riasi, Numerical Study of a Pipe Extension Effect in Draft Tube on Hydraulic Turbine Performance, Journal of Computational Applies Mechanics/2423-6705	2020	10.22059/JCAMECH.2020.289370.433		1.00
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3	Stuparu Adrian Ciprian, Susan-Resiga Romeo, The Complex Dynamics of the Precessing Vortex Rope in a Straight Diffuser, IOP Conference Series: Earth and Environmental Science, Proceeding of 28th IAHR Symposium on Hydraulic Machinery and Systems/1755-1307, 2016				
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4	Stuparu Adrian Ciprian, Susan-Resiga Romeo, The origin of the plunging pressure fluctuations for a swirling flow with precessing vortex rope in a straight diffuser, Cavitation and dynamic problems, Proceedings of the 6th IAHR meeting of the working group, IAHRWG 2015, Ljubljana, Slovenia/978-961-6770-31-6, 2015				
4.1	Sebastian Muntean, Alin Bosioc, Ionel Drăghici, Liviu Anton, Hydrodynamic Analysis of the Flow Field Induced by a Symmetrical Suction Elbow at the Pump Inlet, IOP Conference Series: Earth and Environmental Science, Proceeding of 28th IAHR Symposium on Hydraulic Machinery and Systems/1755-1307	2016	10.1088/1755-1315/49/3/032014		1.00

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4.2		Sebastian Muntean, Constantin Tănasă, Alin Bosioc, Daniel Moș, Investigation of the Plunging Pressure Pulsation in a Swirling Flow with Precessing Vortex Rope in a Straight Diffuser, IOP Conference Series: Earth and Environmental Science, Proceeding of 28th IAHR Symposium on Hydraulic Machinery and Systems/1755-1307	2016	10.1088/1755-1315/49/8/082010		1.00
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5	Stuparu Adrian Ciprian, Sorin Holotescu, Influence of Geometry on the Position and the Intensity of Maximum Kinetic Energy in a Combustion Chamber, Defect and Diffusion Forum, Diffusion in Solids and Liquids VI/1012-0386, 2011					
5.1		Qi, K.P., Long, W.Q., Modelling and Simulation on a New Double-Layer Diffluent Combustion System, PROCEEDINGS OF THE 2015 INTERNATIONAL CONFERENCE ON ELECTRICAL, AUTOMATION AND MECHANICAL ENGINEERING (EAME 2015) Book Series: AER-Advances in Engineering Research/2352-5401, WOS	2015	WOS:000358691900185		1.00
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6.1		Wenguang Li, Zhibin Yu, Cavitating Flows of Organic Fluid with Thermodynamic Effect in a Diaphragm Pump for Organic Rankine Cycle Systems, Energy, WOS	2021	10.1016/j.energy.2021.121495	7.147	8.15
6.2		Muna Kasim, Waleed Arife, Performance analysis of cavitation flow pump, IOP Conf. Ser.: Mater. Sci.Eng./1757-8981, WOS	2021	10.1088/1757-899X/1090/1/012044		1.00
6.3		Yong-In Kim, Sung Kim, Kyoung-Yong Lee, Young-Seok Choi, Effect of incidence angle on cavity blockage and flow stability in the net positive suction head drop of mixed-flow pumps, PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART C-JOURNAL OF MECHANICAL ENGINEERING SCIENCE/0954-4062	2020	10.1177/0954406220973055	1.386	2.39

6.4	Tran Bao Ngoc, Kim Jun-ho, Numerical Analysis on the Cavitation Performance of a Seawater Cooling Pump, Journal of the Korean Society of Marine Environment & Safety/1229-3431, WOS	2019	10.7837/kosomes.2019.25.1.130		1.00
6.5	Ranjbar Behzad, The Process of Production and Operation of Turbomachines and Numerical Optimization of Its Performance, Journal of Computational and Theoretical Nanosciences/15461955, Scopus	2019	10.1166/jctn.2019.8217		1.00
6.6	PEI Ji, YIN Tingyun, YUAN Shouqi, and WANG Wenjie, Cavitation Optimization for a Centrifugal Pump Impeller by Using Orthogonal Design of Experiment, CHINESE JOURNAL OF MECHANICAL ENGINEERING/1000-9345, WOS	2017	10.3901/CJME.2016.1024.125		1.00
6.7	Lu Y., Wang Y., Wang X., Zhu R., Qiu W., Fang J., Experimental and simulation methods of flow noise on pipeline oil pumps, Paiguan Jixie Gongcheng Xuebao/Journal of Drainage and Irrigation Machinery Engineering/16748530, Scopus	2017	10.3969/j.issn.1674-8530.16.0244		1.00
6.8	Bogdanovic-Jovanovic J., Milenkovic D., Stamenkovic Z., Spasic Z., DETERMINATION OF AVERAGED AXISYMMETRIC FLOW SURFACES AND MERIDIAN STREAMLINES IN THE CENTRIFUGAL PUMP USING NUMERICAL SIMULATION RESULTS, FACTA UNIVERSITATIS-SERIES MECHANICAL ENGINEERING/0354-2025, WOS	2017	10.22190/FUME170911026B		1.00
6.9	Tao Ran, Xiao Ruofu, Wang Fujun, Detached eddy simulations for high speed axial flow fuel pumps with swept and straight blade impellers, ENGINEERING COMPUTATIONS/0264-4401	2016	10.1108/EC-06-2015-0165	1.01	2.01
6.10	Wen-Guang Li, Modelling Viscous Oil Cavitating Flow in a Centrifugal Pump, Journal of Fluids Engineering/0021-9223	2016	10.1115/1.4031061	1.437	2.44
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7	Ginga Gheorghita, Stuparu Adrian Ciprian, Bosioc Alin, Anton Liviu, Muntean Sebastian, 3D numerical simulation of the flow into the suction elbow and impeller of a storage pump, Proceeding of 4th IAHR International Meeting of the Workgroup on Cavitation and Dynamic Problems in Hydraulic Machinery and Systems, Belgrad, Serbia/978-86-7083-740-9, 2011					
7.1		Draghici Ionel, Muntean Sebastian, Bosioc Alin, Ginga Gheorghita, Anton Liviu, Unsteady pressure field analysis at pump inlet equipped with a symmetrical suction elbow, PROCEEDINGS OF THE ROMANIAN ACADEMY SERIES A-MATHEMATICS PHYSICS TECHNICAL SCIENCES INFORMATION SCIENCE/ 1454-9069	2016	WOS:000383527500007	1.623	2.62
7.2		Muntean Sebastian, Bosioc Alin, Drăghici Ionel, Anton Liviu, Hydrodynamic Analysis of the Flow Field Induced by a Symmetrical Suction Elbow at the Pump Inlet, IOP Conference Series: Earth and Environmental Science, Proceeding of 28th IAHR Symposium on Hydraulic Machinery and Systems/1755-1307, WOS	2016	10.1088/1755-1315/49/3/032014		1.00
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7.5		Ginga Gheorghita Anton Liviu, Baya Alexandru, Muntean Sebastian, NUMERICAL INVESTIGATION OF THE 3D FLOW IN THE SUCTION ELBOW AND IMPELLER OF A STORAGE PUMP, UPB Scientific Bulletin, Series D: Mechanical Engineering/14542358, Scopus	2012	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84857826914&partnerID=40&md5=411cdf53f2a5a34d53a6b99ad4488cc		1.00
8	Moisă Irina, Stuparu Adrian Ciprian, Susan-Resiga Romeo, Muntean Sebastian, INVERSE DESIGN OF A PUMP INDUCER AND PERFORMANCE EVALUATION WITH 3D FLOW SIMULATION, Proceeding of 4th IAHR International Meeting of the Workgroup on Cavitation and Dynamic Problems in Hydraulic Machinery and Systems, Belgrad, Serbia/978-86-7083-740-9, 2011					
8.1		Moisă Irina, Susan-Resiga Romeo, Muntean Sebastian, PUMP INDUCER OPTIMIZATION BASED ON CAVITATION CRITERION, PROCEEDINGS OF THE ROMANIAN ACADEMY SERIES A-MATHEMATICS PHYSICS TECHNICAL SCIENCES INFORMATION SCIENCE/1454-9069	2013	WOS:000328441500008	1.115	2.12
9	Stuparu Adrian Ciprian, Susan-Resiga Romeo, Anton Liviu, Muntean Sebastian, Numerical investigation of the cavitational behaviour into a storage pump operating at off design operating points, IOP Conference Series: Earth and Environmental Science, Proceedings of the 25th IAHR Symposium on Hydraulic Machinery and Systems/1755-1307, 2010					
9.1		Li, X.S., Wu, Q.T., Miao, L.Y., Yak, Y.Y., Liu, C.B., Scale-resolving simulations and investigations of the flow in a hydraulic retarder considering cavitation, Journal of Zhejiang University-Science A, 12(10)/1673-565X	2020	WOS:000582868600003	1.49	2.49
9.2		Ran Tao, Ruofu Xiao, Fujun Wang, Detached eddy simulations for high speed axial flow fuel pumps with swept and straight blade impellers, ENGINEERING COMPUTATIONS/0264-4401	2016	10.1108/EC-06-2015-0165	1.01	2.01

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11	Muntean Sebastian, Susan-Resiga Romeo, Bosioc Alin, Stuparu Adrian Ciprian, Baya Alexandru, Anton Liviu, Mitigation of pressure fluctuation in a conical diffuser with precesing vortex rope using axial jet control method, 24th IAHR Symposium on Hydraulic Machinery and Systems OCTOBER 27-31, FOZ DO IGUASSU, 2008					
11.1		J T Liu, S H Liu, Y K Sun, Y L Wu, L Q Wang, Numerical study of vortex rope during load rejection of a prototype pump-turbine, IOP Conference Series: Earth and Environmental Science/1755-1307	2013	10.1088/1755-1315/15/3/032044		1.00
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11.5		Sandeep Kumar, Michel J. Cervantes, Bhupendra K. Gandhi, Rotating vortex rope formation and mitigation in draft tube of hydro turbines – A review from experimental perspective, Renewable and Sustainable Energy Reviews/1364-0321	2021	10.1016/j.rser.2020.110354	12.11	13.11

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12.1		Moisa Irina Georgeta, Susan-Resiga Romeo, Muntean Sebastian, Pump inducer optimization based on cavitation criterion, PROCEEDINGS OF THE ROMANIAN ACADEMY SERIES A-MATHEMATICS PHYSICS TECHNICAL SCIENCES INFORMATION SCIENCE, 1454-9069	2013	WOS:000328441500008	1.115	2.12
13	<u>Stuparu Adrian Ciprian</u> , Muntean Sebastian, Baya Alexandru, Anton Liviu, 3D numerical investigation of flow through the centrifugal pump with double flux, Buletinul științific al Universității "Politehnica" Timișoara, Transactions on Mechanics, Proceedings of the "4th Workshop on Vortex Dominated Flows"/1224-6077, 2008					
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