

## LIST OF SCIENTIFIC WORKS / LISTA DE LUCRĂRI

**Candidate: Floriana Daniela STOIAN, PhD since 1997, Associate Professor since 2000**

**Candidat: Floriana Daniela STOIAN, Doctor inginer din 1997, Conferențiar universitar din 2000**

**List of 10 relevant scientific publications, as considered by the candidate, in the PhD field of Mechanical Engineering/**

**Lista cu 10 lucrări științifice considerate relevante de către candidat, elaborate în domeniul de doctorat Inginerie Mecanica**

Nr. crt	AUTORI /Authors	TITLU/Title	Publicatia/Publication	ISSN	ANUL/ Year	Vol (Nr)	Pagina/ Page	Factor de impact ISI 2015
1	Stoian F.D., Morimoto H., Sato T., Maekawa T.	Cluster growth and structures of Lennard-Jones molecules near the critical point	MICROSCALE THERMOPHYSICAL ENGINEERING (din 2006 numita NANOSC MICROSC THERM)	1089-3954 (1556-7265)	2002	6(1)	15-30	2.390
2	Stoian FD, Pop G, Bica D, Stoica V, Marinica O, Vekas L	A fundamental study regarding the control of nucleate boiling in a complex magnetizable fluid by an applied magnetic field, in microgravity conditions	SPACE TECHNOLOGY AND APPLICATIONS INTERNATIONAL FORUM - STAIF 2003 - AIP Conference Proceedings (ISI Proc.)	0094-243X	2003	654	149-156	ISI Proc.
3	Stoian F.D., Holotescu S., Vekas L.	Bubbles generation mechanism in magnetic fluid and its control by an applied magnetic field	Physics Procedia - 12TH INTERNATIONAL CONFERENCE ON MAGNETIC FLUIDS ICMF12 (ISI Proc.)	1875-3892	2010	9	216-220	ISI Proc.

4	Bica, D., Vekas L., Avdeev M.V., Balasoiu M., Marinica O., Stoian F.D., Susan-Resiga D., Torok G., Rosta L.	Magnetizable colloids on strongly polar carriers - preparation and manifold characterization	Book Series: Progress in Colloid and Polymer Science: FROM COLLOIDS TO NANOTECHNOLOGY (ISI Proc.)	0340-255X	2004	125	1-9	ISI Proc.
5	Stoian F.D., Holotescu S., Stoica V., Bica D., Vekas L.,	Comparative study of convective heat transfer in water and water based magnetizable nanofluid for thermal applications	J OPTOELECTRON ADV M	1454-4164	2008	10(4)	773-776	0.383
6	Stoian F.D., Holotescu S.	Experimental Study of Natural Convection Enhancement Using a Fe <sub>3</sub> O <sub>4</sub> -Water Based Magnetic Nanofluid	JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY	1533-4880	2012	12(10)	8211-8214	1.338
7	Morega A.M, Morega M., Pislaru-Danescu L., Stoica V., Nouras F., Stoian F. D.	A Novel, Ferrofluid-Cooled Transformer. Electromagnetic Field and Heat Transfer by Numerical Simulation	OPTIM 2010: PROCEEDINGS OF THE 12TH INTERNATIONAL CONFERENCE ON OPTIMIZATION OF ELECTRICAL AND ELECTRONIC EQUIPMENT, PTS I-IV- IEEEXplore (ISI Proc.)	1842-0133	2010		140-146	ISI Proc.
8	Holotescu S., Stoian F.D. , Marinica O. , Kubicar L. , Kopcanski P., Timko M.	Utilization of the magnetogrulometric analysis to estimate the thermal conductivity of magnetic fluids	J MAGN MAGN MATER	0304-8853	2011	323(10)	1343-1347	2.357

9	Stoian F.D., Holotescu S., Taculescu A., Marinica O., Resiga D., Timko M., Kopcansky P., Rajnak M.	Characteristic Properties of a Magnetic Nanofluid Used as Cooling and Insulating Medium in a Power Transformer	8TH INTERNATIONAL SYMPOSIUM ON ADVANCED TOPICS IN ELECTRICAL ENGINEERING (ATEE) - IEEEExplore (ISI Proc.)	ISBN 978-1-4673- 5979-5	2013		1-4	ISI Proc.
10	Stoian F.D., Holotescu S.	Experimental study of cooling enhancement using a Fe <sub>3</sub> O <sub>4</sub> magnetic nanofluid, in an applied magnetic field	32ND UIT (ITALIAN UNION OF THERMO-FLUID-DYNAMICS) HEAT TRANSFER CONFERENCE Book Series: Journal of Physics Conference Series (ISI Proc.)	1742-6588	2014	547	no. 012044	ISI Proc.

**PhD Thesis/ Teza de doctorat**

Politehnica University of Timisoara, November 13<sup>th</sup>, 1997 and confirmed by the Ministry of Education Order no.5653 / 22.12.1997

Title: Contributions regarding the nucleate boiling heat transfer enhancement using high voltage electric fields

PhD Adviser : Professor Corneliu UNGUREANU

Univeristatea Politehnica Timișoara, 13 Noiembrie 1997 confirmată prin Ordinul Ministrului Învățământului nr. 5653/22.12.1997,

Titlu :Contributii privind influenta campurilor electrice asupra transferului de caldura la vaporizarea globulara

Conducator de doctorat : Prof.dr.ing. Corneliu UNGUREANU

## Books and Books chapters / Cărți si capitole în cărți:

Nr. crt	Autori/ Authors	Titlu/ Title	Editura/ Publishing House	ISBN	Anul/ Year	Număr total pagini/ Total number of pages
1	Floriana Daniela Stoian	Intensificarea electrohidrodinamica a transferului de caldura la vaporizare	Editura Radical, Craiova	973-9253-69-5	2000	116
2	Lucian Pîslaru-Dănescu, Gabriela Telipan, Floriana D. Stoian, Sorin Holotescu and Oana Maria Marinică	Chapter/Capitol: Nanofluid with Colloidal Magnetic Fe <sub>3</sub> O <sub>4</sub> Nanoparticles and Its Applications in Electrical Engineering, in Book: Nanofluid Heat and Mass Transfer in Engineering Problems	Editura InTech, Croația	978-953-51-3008-6	2017	35

**Textbooks, Lecture notes, in print and online/ Manuale suport de curs format tiparit sau format electronic**

<b>Nr. crt</b>	<b>Autori/ Authors</b>	<b>Titlu/ Title</b>	<b>Editura/ Publishing House</b>	<b>ISBN</b>	<b>Anul/ Year</b>	<b>Nr total de pagini contributie proprie/ Total number of pages of personal contribution</b>
1	Floriana Daniela Stoian	Termotehnica	Editura Politehnica	978-606-35-0091-6	2016	243
2	Floriana Daniela Stoian	Termotehnica	cv.upt.ro		2015	179
3	Floriana Daniela Stoian	Procese si instalatii termice pentru centralele termoelectrice	Editura Politehnica	978-973-625-725-4	2009	183
4	Jadaneant Mihai, Nagi Mihai, Stoian Floriana, Ionel Ioana, Laza Ioan, Lelea Dorin, Oprisa-Stanescu Paul Dan, Mihon Liviu	Bazele termoenergeticii - Note de curs pentru managerii energetici	Editura Orizonturi universitare	973-638-257-5	2006	43
5	Jadaneant Mihai, Oprisa-Stanescu Paul Dan, Laza Ioan, Ionel Ioana, Stoian Floriana, Lelea Dorin, Nagi Mihai, Mihon Liviu	Intocmirea si analiza bilanturilor energetice - Note de curs pentru auditorii energetici	Editura Orizonturi universitare	973-638-259-1	2006	25
6	Laza Ioan, Lelea Dorin, Mihon Liviu, Nagi Mihai, Oprisa Stanescu Paul Dan, Stoian Floriana	Echipamente si instalatii termoenergetice - Note de curs pentru managerii energetici	Editura Orizonturi universitare	973-638-175-7	2004	7

7	Ardelean Zeno, Neacsu Eleonora, Stoian Floriana, Nagi Mihai, Jadaneant Mihai	Partea termo a centralelor electrice	Editura Mirton	973-658-669-1	1999	32
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**Exercise books, Laboratory tutorials/ Culegeri de probleme, Indrumatoare de laborator**

<b>Nr. crt.</b>	<b>Autori/ Authors</b>	<b>Titlul cărții/ Book Title</b>	<b>Editura/ Publishing House</b>	<b>ISBN</b>	<b>Anul/ Year</b>	<b>Număr total de pagini/ Total number of pages</b>
1	Jadaneant Mihai, Ionel Ioana, Stoian Floriana, Lelea Dorin, Pop Gheorghe, Negoitescu Arina, Stoica Virgil	Termotehnica si masini termice in experimente	Editura Politehnica	ISBN 973-8247-11-X	2001	110
2	Nagi Mihai, Mihon Liviu, Padure Gelu, Stoian Floriana Daniela	Termotehnica. Probleme, Vol I	Litografia UPT		1996	100

## ISI Publications (others than the 10 relevant publications)/ Publicatii ISI (altele decat cele din Lista de 10 lucrari relevante)

Nr crt.	Autori/ Authors	Titlu/ Title	Revista, Conferinta/ Journal, Conference	ISSN	Anul / Year	Vol. (Nr)	Pagina/ Page	Factor de impact ISI 2015/ ISI Impact factor 2015
1	Vekas L, Bica D., Marinica O., Rasa M., Socoliuc V., Stoian F.D.	Concentrated magnetic fluids on water and short chain length organic carriers	J MAGN MAGN MATER	0304-8853	2004	289	50-53	2.357
2	Holotescu S., Stoian F.D.	Evaluation of the effective thermal conductivity of composite polymers by considering the filler size distribution law	JOURNAL OF ZHEJIANG UNIVERSITY-SCIENCE A	1673-565X	2009	10(5)	704-709	0.941
3	Holotescu S., Stoian F.D.	Prediction of particle size distribution effects on thermal conductivity of particulate composites	MATERIALWISSENSCHAFT UND WERKSTOFFTECHNIK	0933-5137	2011	42(5)	379-385	0.393
4	Timko, M., Marton, K., Tomco, L., Kiraly, J., Molcan, M., Rajnak, M., Kopcansky, P., Cimbala, R., Stoian, F., Holotescu, S., Taculescu, A.	MAGNETO-DIELECTRIC PROPERTIES OF TRANSFORMER OIL BASED MAGNETIC FLUIDS IN THE FREQUENCY RANGE UP TO 2 MHz	MAGNETOHYDRODYNAMICS	0024-998X	2012	48(2)	427-434	0.588

5	Timko, M., Kopcansky, P., Molcan, M., Tomco, L., Marton, K., Molokac, S., Rybar, P., Stoian, F., Holotescu, S., Taculescu, A.	Magnetodielectric Properties of Transformer Oil Based Magnetic Fluids	ACTA PHYSICA POLONICA A	0587-4246	2012	121(5-6)	1253-1256	0.525
6	Bica D., Marinica O., Stoian F.D., Susan-Resiga D., Vekas L.	Strongly polar magnetic fluids with Fe <sub>3</sub> O <sub>4</sub> and CoFe <sub>2</sub> O <sub>4</sub> nanoparticles	CAS: 2002 INTERNATIONAL SEMICONDUCTOR CONFERENCE (ISI Proc.)	ISBN 0-7803-7440-1	2002		143-146	ISI Proc
7	Stoian F.D., Takano K., Nishio S., Tanasawa I.	Fundamental study regarding the activation of nucleation sites using the EHD effect	CONVECTIVE FLOW AND POOL BOILING (ISI Proc.)	ISBN 1-56032-826-6	1999		103-110	ISI Proc



## List of articles published in national journals / Lista de articole in reviste nationale

Nr. crt.	Autori/ Authors	Titlul lucrării/ Article title	Revista/ Journal	ISSN	Anul/ Year	Vol. (nr.)	Pag.	Denumire BDI/ International database
1	Stoian Floriana D., Holotescu S.	Thermodynamic analysis of a solar thermal Brayton cycle	Scientific Bulletin of the Politehnica University Timisoara, Transactions on Mechanics	1224-6077	2016	1	68-76	
2	Stoian Floriana D., Holotescu S.	Theoretical analysis of volume fraction variations on the thermal properties of water based magnetizable nanofluids	Bul.St.UPT, Seria Mecanică (Ediție specială a COFRET 2006)	1224-6077	2006	51	57-62	
3	Holotescu Sorin, Stoian Floriana D.	Analysis method of the real compression process for a diesel engine	Bul.St.UPT, Seria Mecanică (Ediție specială a COFRET 2006)	1224-6077	2006	51	159-164	
4	Stoian Floriana D., Holotescu Sorin	Study regarding the possibilities of using the nanofluids in the engines thermal management system	Bul.St.UPT, Seria Mecanică	1224-6077	2007	52(7)	157-160	
5	Holotescu Sorin, Stoian Floriana D.	Study regarding the influence of the thermal regime on the thermodynamic loss angle for a high power diesel engine	ACTA TECHNICA NAPOCENSIS, Series: Applied Mathematics and Mechanics	1221 – 5872	2007	50	161-164	Google Scholar

6	Stoica Virgil, Ilie Mariana, Stoian Floriana D., Holotescu Sorin	Temperature measurement by means of single interferogram analysis	Bul.St.UPT, Seria Mecanică	1224-6077	2008	53(1)	135-140	
7	Stoica Virgil, Ilie Mariana, Stoian Floriana D., Holotescu Sorin	Microregion theory versus microlayer theory - Experimental investigation	Bul.St.UPT, Seria Mecanică	1224-6077	2008	53(1)	131-134	
8	Gheorghe POP, STOIAN Floriana D., Ladislau VÉKÁS, Doina BICA, Virgil STOICA, Oana MARINICĂ	Studies on the dynamics of gas bubbles in magnetizable nanofluid	Bul.St.UPT, Seria Mecanică (Editie speciala Conferinta HMH 2004)	1224-6077	2004	49	475-480	
9	Ladislau VÉKÁS, Oana Marinică, Daniela SUSAN-RESIGA, Floriana D STOIAN, Doina BICA	Magnetic and flow properties of high magnetization nanofluids	Bul.St.UPT, Seria Mecanică (Editie speciala Conferinta HMH 2004)	1224-6077	2004	49	685-692	
10	Stoian Floriana D., Holotescu Sorin, Pop Gheorghe	The effect of the initial conditions on cluster growth near the critical point of a Lennard- Jones fluid	Buletinul Stiintific al UPT, Seria Mecanica	1224-6077	2001	46(60)	71-78	
11	Stoian Floriana D.	Modeling of the Vapor Bubbles Behavior in a High Voltage DC Electric Field	Bul.St.UPT, Seria Electrotehnica, (Editie speciala a Proceedings of the 3rd Power Systems Conference)	1224-6032	1999	44		
12	Daba Dumitru, Stoian Floriana D.	On an Electrohydro-dynamic Experiment	Bul. St. UPT, Seria Electrotehnica	1224-6032	1998	43(57)		

13	Daba Dumitru, Stoian Floriana D.	The Effects of Electric Fields on The Dynamics of Gas Bubbles Injected in Liquids	Bul.St.UPT, Seria Electrotehnica	1224-6032	1997	42(56)	29-36	
14	Stoian Floriana D., Daba Dumitru	Experimental Studies Regarding the Electrohydrodynamic Effects Used for The Enhancement of Nucleate Boiling Heat Transfer	Bul.St.UPT, Seria Electrotehnica	1224-6032	1997	42(56)	37-42	
15	Ionel Ioana, Ungureanu Corneliu, Stoian Floriana D., Lelea Dorin	Gaussian Dispersion Model with respect to the Environmental Pollution in the Romanian city Timisoara	Buletinul Stiintific al UPT, Seria Mecanica	1224-6077	1996	41(55)	89-95	
16	Ungureanu Corneliu, Ionel Ioana, Stoian Floriana D., Oprisa Paul Dan, Lelea Dorin	Übersicht bezüglich der Verwertung der Primärenergie der Brennstoffe, als Ziel der Forschungs-programme des Lehrstuhls für Thermodynamik und thermische Maschinen	Buletinul Stiintific al UPT, Seria Mecanica	1224-6077	1995	40(54)	18-28	
17	Ionel Ioana, Lelea Dorin, Sturm Peter, Ungureanu Corneliu, Stoian Floriana D.	Air dispersion modelling of the environmental pollution caused by traffic	Mobility & Vehicles Mechanics, (Yugoslavia)	1450-5304	1999	25(2-3)	61-66	Google Scholar

**Conference papers presented at international conferences abroad, published in volumes indexed in international databases/  
Lista de lucrări prezentate la conferințe în străinătate, publicate în volume indexate în baze de date internaționale**

Nr. Crt	Autori	Titlul lucrării	Conferința, Simpozionul, Denumirea volumului, Localitatea, etc.	Anul	Ziua, luna	ISBN și / sau ISSN	Pag.	Baza de date
1	Timko M., P. Kopcansky, K. Marton, L. Tomko, S. Holotescu, Stoian Floriana Daniela, L. Vékás	Magnetic Fluid as cooling and insulation medium for high power transformers	Proceedings of EEESD-10, Energy, Environment, Sustainable Development and Landscaping, Timisoara	2010	21, octombrie	ISSN:1792-5924	321-326	SCOPUS
2	Stoian Floriana Daniela	Magnetizable nanofluids: progresses and prospects regarding their use in thermal applications (invited lecture)	29th Japan Symposium on Thermophysical Properties, Tokyo (Japonia)	2008	8-10 oct.	0911-1743	300-303	Google Scholar
3	Holotescu Sorin, Stoian Floriana Daniela	A study of the influence of filler dimensional distribution on the polymer composite effective thermal conductivity	29th Japan Symposium on Thermophysical Properties, Tokyo (Japonia)	2008	8-10 oct.	0911-1743	318-320	Google Scholar
4	Morega Alexandru, Morega Mihaela, Stoian Floriana Daniela, Holotescu S.	Numerical Simulation of an Experimental Apparatus for the Evaluation of Physical Properties of Magnetic Fluids	COMSOL Conference 2008 Budapesta, Ungaria	978-0-9766792-8-8	2008	24,oct	36-40	Google Scholar

Candidate: F.D. STOIAN

2017

List of scientific works/ Lista lucrărilor

5	Stoian Floriana D., Pop Gheorghe, Bica Doina, Stoica Virgil, Marinica Oana, Vekas Ladislau	Effects of an applied magnetic field on the bubble growth and departure in a magnetic liquid	Proceedings of the Second International Symposium on Two-Phase Flow Modelling and Experimentation Pisa, Italia, Vol. III	88-467-1075-4	2004	22,sept	971-978	Google Scholar
6	Ionel Ioana, Lelea Dorin, Stoian Floriana D., Ungureanu Corneliu, Lorinczi Mariana	Short term average levels for the pollutants CO, NO <sub>x</sub> and SO <sub>2</sub> in the city of Timișoara, Romania	Traffic Induced Air Pollution Emissions, Impact and Air Quality Conference, publicat in Mitteilungen TU Graz, Graz, Austria		1996		299-310	Google Scholar
7	Ionel Ioana, Stoian Floriana, Lelea D., Hill Jane	Contribution of a Romanian power plant to the atmospheric transboundary pollution	Proceedings of the 1995 ASME Cogen-Turbo Power Conference; Vienna, Austria	0402-1215	1995	23,aug	Paper 95 CTP-86	SCOPUS

## Communications at international conference abroad/ Comunicari stiintifice la conferinte din strainatate, neindexate

Nr. Crt	Autori/ Authors	Titlul lucrării/ Paper title	Conferința, Simpozionul, Denumirea volumului, Localitatea, etc./ Conference, Symposium, Title, Place etc	Anul/ Year	Ziua, luna/ Day, month	ISBN și / sau ISSN	Pag.
1	M. Timko, P. Kopcansky, L. Tomko, K. Marton, M. Koneracka, V. Zavisova, L. Kubicar, S. Holotescu, Stoian Floriana Daniela, L. Vekas	Magnetic Fluids for Transformer Technology	5th International Conference on Nanosciences, Nanotechnologies, Nanomaterials, Nanomedicine and Technology Transfer, Book of Abstracts, Bratislava (Slovakia)	2010	16-19 mai	ISBN 978-80-7399-949-0	S6-4
2	M. Timko, P. Kopcansky, K. Marton, L. Tomko, J. Kudelcik, S. Holotescu, Stoian Floriana Daniela, L. Kubicar	The thermal and dielectric properties of transformer oils based magnetic fluid	INDUCTICA 2010, Conference Proceedings, Berlin (Germania)	2010	22-24 iunie	CWIEME Berlin	S5-1

## Patents/Brevete de inventie

Nr. crt.	Autori	Titlul brevetului	Număr brevet	Titular	Data de înregistrare (ziua, luna)	Anul
1	Pislaru-Danescu Lucian, Macamete Elena, Telipan Gabriela, Pinte Jana, Nouras Florica, Paduraru Nicolae, Vekas Ladislau, Stoian Floriana D., Borbath Istvan, Borbath Tunde, Morega Alexandru, Morega Mihaela	<b>Transformator cu agent de racire cu nanofluid</b> magnetic (Transformer with magnetic nanofluid cooling agent)	Patent no. 126613 B1/2014	ICPE - CA Bucuresti, ICMET Craiova, ROSEAL SA Odorheiu Secuiesc	31.08	2010
2	Pislaru-Danescu, L., Popa, M., Ilie, C.-I., Chihaia, R.A, Babutanu C.A., Nicolae, S., Bunea, F., <b>Stoian, F.D.</b> , Holotescu, S., Marinica, O., Morega, A.M., Morega, M., Dumitru, J.B., Popa, N.C.	<b>Transformator planar cu nanofluid magnetic</b> ( Planar transformer with magnetic nanofluid)	approved	ICPE - CA Bucuresti, Universitatea Politehnica Timisoara	A/00713/07.10	2016

**Project director & Project responsible for international projects/ Director sau responsabil partener grant internațional**

Nr. crt.	Denumirea grantului	Nr. Grant	Anul	Valoare grant EURO	Finanțator
1	Nanofluid magnetic – un nou mediu izolator și de răcire pentru transformatoarele electrice (Magnetic Fluid – New Insulated and Cooling Medium for Power Transformers) – MAFINCO	FP7 MNT-ERANET, nr. 7-018	2011	13925	UEFISCDI
2	Nanofluid magnetic – un nou mediu izolator și de răcire pentru transformatoarele electrice (Magnetic Fluid – New Insulated and Cooling Medium for Power Transformers) – MAFINCO	FP7 MNT-ERANET, nr. 7-018	2010	19715	UEFISCDI
3	Nanofluid magnetic – un nou mediu izolator și de răcire pentru transformatoarele electrice (Magnetic Fluid – New Insulated and Cooling Medium for Power Transformers) – MAFINCO	FP7 MNT-ERANET, nr. 7-018	2009	13072	UEFISCDI

**Project director & Project responsible for national projects/ Director sau responsabil partener grant internațional**

Nr. crt.	Denumirea grantului/ Grant title	Nr. Grant	Anul/ Year	Valoare grant RON/ Value RON	Finantator/ Funding body
1	Sistem hibrid de recoltare a energiei din mediul inconjurator prin conversie fotovoltaica si piezoelectrica, transformare DC/DC cu integrare MEMS si stocare adaptiva	63	2016	83,000	UEFISCDI
2	Sistem hibrid de recoltare a energiei din mediul inconjurator prin conversie fotovoltaica si piezoelectrica, transformare DC/DC cu integrare MEMS si stocare adaptiva	63	2015	40,000	UEFISCDI



3	Sistem hibrid de recoltare a energiei din mediul inconjurator prin conversie fotovoltaica si piezoelectrica, transformare DC/DC cu integrare MEMS si stocare adaptiva	63	2014	15,000	UEFISCDI
4	Nanofluidice magnetice si fluide magnetizabile nano-micro compozite cu magnetizare ridicata: aplicatii in etansari rotitoare pentru presiuni ridicate si conditii grele de exploatare, respectiv in dispozitive magnetoreologice de control	157	2016	237,320	UEFISCDI
5	Nanofluidice magnetice si fluide magnetizabile nano-micro compozite cu magnetizare ridicata: aplicatii in etansari rotitoare pentru presiuni ridicate si conditii grele de exploatare, respectiv in dispozitive magnetoreologice de control	157	2015	100,000	UEFISCDI
6	Nanofluidice magnetice si fluide magnetizabile nano-micro compozite cu magnetizare ridicata: aplicatii in etansari rotitoare pentru presiuni ridicate si conditii grele de exploatare, respectiv in dispozitive magnetoreologice de control	157	2014	135,500	UEFISCDI
7	Nanofluidice magnetice si fluide magnetizabile nano-micro compozite cu magnetizare ridicata: aplicatii in etansari rotitoare pentru presiuni ridicate si conditii grele de exploatare, respectiv in dispozitive magnetoreologice de control	157	2013	157,180	UEFISCDI
8	Nanofluidice magnetice si fluide magnetizabile nano-micro compozite cu magnetizare ridicata:aplicatii in etansari rotitoare pentru presiuni ridicate si conditii grele de exploatare, respectiv in dispozitive magnetoreologice de control	157	2012	90,000	UEFISCDI
9	Cercetari privind utilizarea unor nanofluidice magnetizabile ca agent termic	A665	2007	20,600	CNCSIS
10	Cercetari privind utilizarea unor nanofluidice magnetizabile ca agent termic	A665	2006	18,500	CNCSIS
11	Cercetari privind utilizarea unor nanofluidice magnetizabile ca agent termic	A665	2005	15,000	CNCSIS

12	Nanostructuri functionalizate pe baza de polimeri conjugati si nanocompozitele acestora	12811	2007	122,000	CEEX
13	Sisteme hibride nanostructurate pe baza de polimeri conductori, nanoparticule magnetice si nanotuburi de carbon	4-139	2006	9,900	CERES
14	Sisteme hibride nanostructurate pe baza de polimeri conductori, nanoparticule magnetice si nanotuburi de carbon	4-139	2005	4,000	CERES
15	Surfactanti si medii de dispersie deuterate pentru nanofluide magnetice	14266	2006	11,000	CERES
16	Studiu privind fenomenele și procesele de transport în medii polarizabile în condiții terestre și de microgravitație	11657	2004	33,635	Agentia Spatiale Romana (ROSA)
17	Studiu privind fenomenele și procesele de transport în medii polarizabile în condiții terestre și de microgravitație	11657	2003	24,875	Agentia Spatiale Romana (ROSA)
18	Studiu privind fenomenele și procesele de transport în medii polarizabile în condiții terestre și de microgravitație	11657	2002	29,421	Agentia Spatiale Romana (ROSA)
17	Studiu privind fenomenele și procesele de transport în medii polarizabile în condiții terestre și de microgravitație	11657	2001	12,175	Agentia Spatiale Romana (ROSA)
18	Studiul tranzitiei de faza in apropierea starii critice a unui fluid sub influenta campurilor externe de forte	33501/Tema 11/ CNCSIS 75	2002	4,500	CNCSIS
19	Studiul tranzitiei de faza in apropierea starii critice a unui fluid sub influenta campurilor externe de forte	34977/Tema 40/ CNCSIS 147	2001	4,000	CNCSIS
20	Rețea de laboratoare de cercetare in domeniul nanotehnologiilor - NANOTEHNET	15908/2001	2001	2,500	MATNANTECH

**Member of the research team for national projects/ Membru in echipa de cercetare in granturi nationale**

<b>Nr. crt.</b>	<b>Denumirea grantului/ Grant title</b>	<b>Nr. Grant</b>	<b>Anul/ Year</b>	<b>Valoare grant RON/ Value RON</b>	<b>Finantator/ Funding body</b>
1	Sistem integrat de determinare a sudabilitatii cu facicul laser a materialelor polimerice, de monitorizare si control in timp real a procesului de sudare (POLYWELDSYS)	71-088	2009	135,086	UEFISCDI
2	Sistem integrat de determinare a sudabilitatii cu facicul laser a materialelor polimerice, de monitorizare si control in timp real a procesului de sudare (POLYWELDSYS)	71-088	2008	210,092	UEFISCDI
3	Sistem integrat de determinare a sudabilitatii cu facicul laser a materialelor polimerice, de monitorizare si control in timp real a procesului de sudare (POLYWELDSYS)	71-088	2007	32,239	UEFISCDI
4	Sisteme autonome avansate pentru controlul oscilatiei structurilor	51	2005	8,000	CEEX
5	Sisteme autonome avansate pentru controlul oscilatiei structurilor	51	2006	10,000	CEEX
6	Nanoparticule pe baza de fier si oxid de fier pentru nanofluidice magnetice: preparare, caracterizare si aplicatii	11711	2006	34,000	CEEX