

## NECULAE Adrian Puiu - listă de lucrări

### Articole științifice originale, în extenso, ca autor (selecție)

Nr. crt.	<b>Referința bibliografică</b> (Autori, Titlul, Revista, Vol., anul, pag. încep. – pag.sf.)
1.	<u>A. Neculae</u> , B Goyeau, M. Quintard, D. Gobin: Passive dispersion in dendritic structures; Materials Science & Engineering A, Vol. 323/1-2, p. 368-377, 2002.
2.	P. Bousquet-Melou, <u>A. Neculae</u> , B. Goyeau, M. Quintard: Averaged solute transport during solidification of a binary mixture: active dispersion in dendritic structures; Metallurgical and Materials Transactions B, Vol. 33B, p.365-376, 2002.
3.	D. Gobin, B. Goyeau, <u>A. Neculae</u> : Convective heat and solute transfer in partially porous cavities; Int. J. Heat and Mass Transfer, Vol 48/10, p. 1898-1908, 2005.
4.	M. Paulescu, N. Stefu, E. Tulcan-Paulescu, D. Calinoiu, <u>A. Neculae</u> , P. Gravila: UV solar irradiance from broadband radiation and other meteorological data; Atmospheric Research, 96, p.141-148, 2010.
5.	<u>A. Neculae</u> , C. G. Biris, M. Bunoiu, M. Lungu: Numerical analysis of nanoparticle behavior in a microfluidic channel under dielectrophoresis; J. Nanopart Res. Vol. 14, p. 1154-1165, 2012.
6.	<u>A. Neculae</u> , R. Giugiulan, M. Bunoiu, M. Lungu: Effects of fluid flow velocity upon nanoparticle distribution in microfluidic devices under dielectrophoresis; Romanian Reports in Physics, Vol. 66, No.3, p. 754-764, 2014.
7.	M. Lungu, <u>A. Neculae</u> and A. Lungu: Positive dielectrophoresis used for selective trapping of nanoparticles from flue gas in a gradient field electrodes device, Journal of Nanoparticle Research, Vol. 17 (12):491 1-14, 2015, DOI: 10.1007/s11051-015-3304-y
8.	<u>A. Neculae</u> , M. Bunoiu, A. Lungu and M. Lungu: Filtration of flue gas in microfluidic devices using dielectrophoresis, Romanian Journal of Physics, Vol. 61, No.5-6, p. 957-969, 2016
9.	M. Lungu, <u>A. Neculae</u> : Eddy current separation of small nonferrous particles using a complementary air-water method, Separation Science and Technology Vol. 53 (1), 126-135, 2018
10.	A.M. Balint, S. Balint, <u>A. Neculae</u> : On the objectivity of mathematical description of ion transport processes using general temporal Caputo and Riemann-Liouville fractional partial derivatives, Chaos, Solitons and Fractals 156 (2022) 111802

### Teze de doctorat

Nr. crt.	Titlu teză, Domeniu, Universitatea, Anul
1.	Contributii la obtinerea materialelor monocristaline de tip oxidic prin metoda hidrotermala, Fizică, Universitatea de Vest din Timișoara, 2001
2.	Contributions to the study of transport phenomena in a dendritic mushy zone (Teză în co-tutelă) Mecanică (Universitatea Paris VI, Franța) / Matematică (Universitatea de Vest din Timișoara, Romania), 2003

### Capitole de cărți în edituri internaționale recunoscute *Web of Science*, în calitate de autor

Nr. crt.	Titlul capitolului	Autori	Editura, an / revista, an, pagini, link (dacă este cazul)
1.	Chapter 13, pp. 245-268: <i>Nanoparticle Characterization Using Nanoparticle Tracking Analysis, Part III: Characterization and Detection Methods for Nanoparticles</i> , Book: <i>Nanoparticles' Promises and Risks; Characterization, Manipulation, and Potential Hazards to Humanity and the Environment</i>	A. Lungu, M. Lungu, <u>A. Neculae</u> , R. Giugiulan	Springer Science+Business Media, ISBN: 978-3-319-11727-0 (Print) 978-3-319-11728-7 (Online), 2014. <a href="https://www.springer.com/la/book/9783319117270">https://www.springer.com/la/book/9783319117270</a>
2.	Chapter 14, pp. 271-301: <i>Dielectrophoresis Used for Nanoparticle Manipulation in Microfluidic Devices</i> , Part IV: <i>Methods for Sorting, Separating and Manipulating Nanoparticles</i> , Book: <i>Nanoparticles' Promises and Risks; Characterization, Manipulation, and Potential Hazards to Humanity and the Environment</i>	M. Lungu, M. Bunoiu and <u>A. Neculae</u>	Springer Science+Business Media, ISBN: 978-3-319-11727-0 (Print) 978-3-319-11728-7 (Online), 2014. <a href="https://www.springer.com/la/book/9783319117270">https://www.springer.com/la/book/9783319117270</a>
3.	Chapter 15, pp. 355-381 - The micro and nanoinvestigation and control of physical processes using optical fiber sensors and numerical simulations, a mathematical approach. Book: "Micro- and Nanophotonic Technologies" Editors: P. Meyrueis, K. Sakoda, M. Van de Voorde,	<u>A. Neculae</u> , D. Curticaean	Wiley-VCH Verlag, Weinheim, Germany, ISBN: 978-3-527-34037-8 (2017) <a href="https://www.wiley.com/en-ro/Micro+and+Nanophotonic+Technologies-p-9783527340378">https://www.wiley.com/en-ro/Micro+and+Nanophotonic+Technologies-p-9783527340378</a>

### Cărți în edituri internaționale recunoscute *Web of Science* în calitate de editor

Nr. crt.	Titlul	Editori	Editura, an, link (dacă este cazul)
1.	<i>Nanoparticles' Promises and Risks; Characterization, Manipulation, and Potential Hazards to Humanity and the Environment</i>	Lungu M, <u>Neculae A.</u> , Bunoiu M. and Biris C.	Springer Science+Business Media, ISBN: 978-3-319-11727-0 (Print) 978-3-319-11728-7 (Online), 2014. <a href="https://www.springer.com/la/book/9783319117270">https://www.springer.com/la/book/9783319117270</a>

### Cărți, manuale, îndrumătoare de laborator în edituri naționale

Nr. crt.	Titlul	Autori	Editura, an, link (dacă este cazul)
1.	Îndrumător pentru lucrări de laborator de electricitate, magnetism, electrotehnică. Măsurări, Modelare, Simulare, Control. (254 pag.)	M. Balint, <u>A. Neculae</u> , O. Craiu	Tipografia Universității de Vest din Timișoara, 1996
2.	Studiu privind procesele de transport de căldură, masă și impuls, respectiv de separare a fazelor și fenomene	A. M. Balint, <u>A. Neculae</u> , D. Bălțean, M. Mihailovici, Șt. Balint	Univ. de Vest din Timișoara, Monografiile de Fizică 14, Editura

	interfaciale specifice procesării materialelor cristaline, amorse și compozite în condiții de microgravitație; (164 pag.)		MIRTON Timișoara, ISBN 1453-7710, 1998
3.	Modelarea fenomenelor de transport (74 pag.)	A.M. Balint, D. Bălțean, <u>A. Neculae</u> , Șt. Balint	Editura MIRTON Timișoara, ISBN 973-578-715-6, 1998
4.	Îndrumător pentru lucrări de laborator de electricitate și electromagnetism – Măsurări, Modelare, Simulare, Control (250 pag.)	A. M. Balint, <u>A. Neculae</u>	Editura MIRTON Timișoara , ISBN 973-578-743-1, 1999
5.	Modelarea fenomenelor electrice și magnetice. Îndrumător pentru lucrări de laborator (76 pag.)	A. M. Balint, <u>A. Neculae</u>	Editura MIRTON Timișoara , ISBN 973-578-742-3, 1999
6.	Fizica solului (60 pag.)	A.M. Balint, D. Bălțean, <u>A. Neculae</u> , Șt. Balint	Editura MIRTON Timișoara , ISBN 973-578-744-X, 1999
7.	Măsurarea și estimarea radiației solare, (170 pag.)	M. Paulescu, <u>A. Neculae</u> , E. Tulcan Paulescu	Editura Universității de Vest, Timișoara, ISBN (13) 978-973-125-189-9, 2008
8.	Fizica Mediului I; Lucrări de laborator, (56 pag.)	N. Stefu, <u>A. Neculae</u> , A. Balint	Editura Universității de Vest, Timișoara, ISBN 978-973-125-283-4, 2010
9.	Elemente de algebra liniară (124 pag.)	<u>A. Neculae</u>	Editura Eurobit, Timișoara, 2019 ISBN 978-973-132-571-2

### Capitole de cărți în edituri naționale sau alte edituri internaționale ca autor

Nr. crt.	Titlul capitolului - titlul cărții	Autori	Editura, an, link (dacă este cazul)
1.	Cap. 3: Tipuri convenționale de celule solare (pag. 55-79) capitol în cartea "Celule solare nanostructurate", Editor: M. Paulescu (204 pag.)	<u>A. Neculae</u>	Editura Universității de Vest, Timișoara, ISBN 978-973-125-110-3, 2007
2.	Cap. 6: Celule solare cu colorant senzitiv (pag. 133-164) capitol în cartea "Celule solare nanostructurate", Editor: M. Paulescu (204 pag.)	M. Paulescu, <u>A. Neculae</u> , P. Gravila,	Editura Universității de Vest, Timișoara, ISBN 978-973-125-110-3, 2007
3.	Cap. 1: Simularea funcționării celulelor solare cu joncțiune p-n sau p-i-n (pag.1-10) capitol în cartea: "Modelarea numerică a celulelor fotovoltaice nanostructurate", Autori: M. Paulescu, <u>A. Neculae</u> , E. Tulcan Paulescu, D. Comanescu (168 pag.)	<u>A. Neculae</u>	Editura Universității de Vest, Timișoara, ISBN 978-973-125-174-5, 2008
4.	Cap. 2: Modelarea și simularea fenomenelor de transport într-o celulă solară cu colorant senzitiv (pag.11-28) capitol în cartea: "Modelarea numerică a celulelor fotovoltaice nanostructurate", Autori: M. Paulescu, <u>A. Neculae</u> , E. Tulcan Paulescu, D. Comanescu (168 pag.)	<u>A. Neculae</u>	Editura Universității de Vest, Timișoara, ISBN 978-973-125-174-5, 2008
5.	George Emil Palade – a pioneer of cell biology (pages 88-96), chapter in the book "Inquiry Based Science Education (IBSE) in the primary	T. Nicolici-Schultz, <u>A. Neculae</u>	Printing office of Vinca Institute of Nuclear Sciences, University of Belgrade, ISBN 978-86-7306-106-1, 2012

school”, editors S. Jokic, D. Milicic, (112 pag.)		
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### Articole științifice originale, în extenso, ca autor

Nr. crt.	Referința bibliografică (Autori, Titlul, Revista, Vol., anul, pag. încep. – pag.sf.
1.	A.M. Balint, D.G. Bălțean, Th. Levy, M. Mihailovici, <u>A. Neculae</u> , Șt. Balint: The dopant fields in “uniform-diffusion-layer”, “global-thermal-convection” and “precrystallization-zone” models; Materials Science in Semiconductor Processing, 3, p.115-121, 2000
2.	<u>A. Neculae</u> , B Goyeau, M. Quintard, D. Gobin: Passive dispersion in dendritic structures; Materials Science & Engineering A, Vol. 323/1-2, p. 368-377, 2002.
3.	P. Bousquet-Melou, <u>A. Neculae</u> , B. Goyeau, M. Quintard: Averaged solute transport during solidification of a binary mixture: active dispersion in dendritic structures; Metallurgical and Materials Transactions B, Vol. 33B, p.365-376, 2002.
4.	D. Gobin, B. Goyeau, <u>A. Neculae</u> : Convective heat and solute transfer in partially porous cavities; Int. J. Heat and Mass Transfer, Vol 48/10, p. 1898-1908, 2005.
5.	<u>A. Neculae</u> , A.M. Balint: Axial segregation in unsteady diffusion-dominated solidification of a binary alloy in a finite cylindrical ampoule, International Journal of Modern Physics B, Vol 20, No.18, p. 2551-2560, 2006.
6.	<u>A. Neculae</u> and M. Paulescu: Numerical simulation for the current density of p-n junction like-type solar cells; Journal of Optoelectronics and Advanced Materials, Vol. 10, No.9, p.2438-2440, 2008.
7.	M. Paulescu, E. Tulcan-Paulescu, <u>A. Neculae</u> , P. Gravila: Internal Reflection Influence on the Multiple Quantum Well Solar Cell Efficiency; Journal of Optoelectronics and Advanced Materials, Vol. 10, No.9, p.2441-2444, 2008.
8.	M. Paulescu, N. Stefu, E. Tulcan-Paulescu, D. Calinoiu, <u>A. Neculae</u> , P. Gravila: UV solar irradiance from broadband radiation and other meteorological data; Atmospheric Research, 96, p.141-148, 2010.
9.	M. Lungu, <u>A. Neculae</u> , M. Bunoiu: Some considerations on the dielectrophoretic manipulation of nanoparticles in fluid media, Journal of Optoelectronic and Advanced Materials, Vol. 12 ISS 12, p. 2423-2426, 2010.
10.	M. Lungu, <u>A. Neculae</u> , M. Bunoiu, N. Strambeanu: Some considerations on the nanoparticles manipulation in fluid media using dielectrophoresis; Romanian Journal of Physics, Vol. 56 (5-6), p. 749-756, 2011.
11.	<u>A. Neculae</u> , C. G. Biris, M. Bunoiu, M. Lungu: Numerical analysis of nanoparticle behavior in a microfluidic channel under dielectrophoresis; J. Nanopart Res. Vol. 14, p. 1154-1165, 2012.
12.	D. Curticean, <u>A. Neculae</u> : Radiative heat transfer in optical fibers with applications to temperature measurement and controlled splicing processes considering the SP1 approximation; FiO/LS - Frontiers in Optics 2012/ Laser Science XXVIII, Rochester, NY, USA, October 14-18, 2012; Code 102355 (2 pages)
13.	A. Otte, A. Neculae, and D. S. Curticean, "Near-Infrared Spectroscopy for Real-Time Brain Perfusion Diagnostics in Patients with Late Whiplash Syndrome," in Frontiers in Optics 2013, P. Delyett, Jr. and D. Gauthier, eds., OSA Technical Digest (online) (Optical Society of America, 2013), paper JW3A.25. (2 pages) <a href="http://www.opticsinfobase.org/abstract.cfm?URI=LS-2013-JW3A.25">http://www.opticsinfobase.org/abstract.cfm?URI=LS-2013-JW3A.25</a>
14.	<u>A. Neculae</u> , R. Giugiulan, M. Bunoiu, M. Lungu: Effects of fluid flow velocity upon nanoparticle distribution in microfluidic devices under dielectrophoresis; Romanian Reports in Physics, Vol. 66, No.3, p. 754-764, 2014.

15.	M. Lungu, <u>A. Neculae</u> and A. Lungu: Positive dielectrophoresis used for selective trapping of nanoparticles from flue gas in a gradient field electrodes device, Journal of Nanoparticle Research, Vol. 17 (12):491 1-14, 2015, DOI: 10.1007/s11051-015-3304-y
16.	<u>A. Neculae</u> , M. Bunoiu, A. Lungu and M. Lungu: Filtration of flue gas by retaining of nanoparticles in microfluidic devices using dielectrophoresis, Romanian Reports in Physics, Vol. 68, No. 3, p. 1085-1096, 2016
17.	<u>A. Neculae</u> , M. Bunoiu, A. Lungu and M. Lungu: Filtration of flue gas in microfluidic devices using dielectrophoresis, Romanian Journal of Physics, Vol. 61, No.5-6, p. 957-969, 2016
18.	M. Lungu, <u>A. Neculae</u> : Eddy current separation of small nonferrous particles using a complementary air-water method, Separation Science and Technology Vol. 53 (1), 126-135, 2018
19.	A.M. Balint, S. Balint, <u>A. Neculae</u> : On the objectivity of mathematical description of ion transport processes using general temporal Caputo and Riemann-Liouville fractional partial derivatives, Chaos, Solitons and Fractals 156 (2022) 111802

### Lucrări în extenso (cel puțin 3 pagini) publicate în Proceedings-uri cu ISBN indexate ISI

Nr. crt.	Titlul	Autori	Revista, editura, an, link
1.	Analysis of the convective-diffusive transport equation of the dopant in the neighbourhood of the growth interface in the context of Bridgman-Stockbarger crystal growth configuration;	St. Balint, A.M. Balint, D.G. Baltean, <u>A. Neculae</u>	Second International Conference on Nonlinear Problems in Aviation and Aerospace, S. Sivasundaram (Ed.), European Conference Publications, Cambridge, 1999, Vol.1, p.63-72, ISBN 0-95226643-1-3,
2.	The influence of the precrystallization zone on the dopant field in microgravity;	A.M. Balint, D. Băltean, M. Mihailovici, <u>A. Neculae</u> , Șt. Balint	SIOEL '99: SIXTH SYMPOSIUM ON OPTOELECTRONICS Book Series: PROCEEDINGS OF THE SOCIETY OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS (SPIE) Volume: 4068 Pages: 33-44, 2000
3.	The influence of the solid inclusions on the heat transport in the precrystallization zone;	A.M. Balint, M.M. Mihailovici, D.G. Baltean, <u>A. Neculae</u> , St. Balint	Advanced Computational Methods in Heat Transfer VI, Ed. B. Sundén & C.A. Brebbia, WIT Press, Southampton, Boston, p.43-52, 2000
4.	On the solute concentration field in the neighbourhood of the seed in a hydrothermal crystal growth system;	<u>A. Neculae</u> , A.M. Balint, D.G. Băltean, St. Balint	The Third International Conference on Non-Linear Problems in Aviation and Aerospace, May 10-12, 2000, Daytona-Beach, Florida, USA, Ed. S. Sivasundaram, European Conference Publications, Cambridge, 2002, Vol.1-2, p.513-520
5.	Mass transport by diffusion and convection through periodic porous media;	D. Băltean, A.M. Balint, Th. Levy, <u>A. Neculae</u> , S. Balint	The Third International Conference on Non-Linear Problems in Aviation and Aerospace, May 10-12, 2000, Daytona-Beach, Florida, USA, Ed. S. Sivasundaram, European Conference Publications, Cambridge, 2002, Vol.1-2, p.63-70
6.	Temperature measurement using optical fibre with applications to automobiles considering a high accurate numerical solution for the conductive heat transport in a circular cylinder;	D. Curticean and <u>A. Neculae</u>	Proceedings of SPIE, Vol. 7003, 70032K-1, 2008, ISBN 978-0-8194-7203-8, 12 pagini
7.	Modeling and numerical simulation of the transport processes inside DSSC using a monodomain approach;	<u>A. Neculae</u> , M. Paulescu and D. Curticean	Proceedings of SPIE, Vol. 7002, 70020Y-1, 2008, ISBN 978-0-8194-7203-8, 8 pagini

8.	A simple but accurate multiband solar cells model;	M. Paulescu, E. Tulcan-Paulescu, <u>A. Neculae</u> , and P. Gravila	Proceedings of SPIE, Vol. 7002, 70020T-1, 2008, ISBN 978-0-8194-7203-8, 8 pagini
9.	Some consideration on the dynamics of nanometric suspensions in fluid media;	M. Lungu, <u>A. Neculae</u> , M. Bunoiu	American Institute of Physics Conference Proceedings 1131, Proceedings of the physics conference TIM-08, Timisoara, ROMANIA, November 28-29, 2008, p.164-168, 2009, ISBN 978-0-7354-0668-1
10.	Numerical study on radiative heat transfer and boundary control of glass fibers cooling process;	<u>A. Neculae</u> , D. Curticapean	American Institute of Physics Conference Proceedings 1262, Proceedings of the physics conference TIM-09, Timisoara, ROMANIA, November 27-28, 2009, p.155-160, 2010, ISBN 978-0-7354-0810-4
11.	Numerical simulation of the bioparticle manipulation process using dielectrophoresis;	<u>A. Neculae</u> , M. Bunoiu, M. Lungu	American Institute of Physics Conference Proceedings 1262, Proceedings of the physics conference TIM-09, Timisoara, ROMANIA, November 27-28, 2009, p.144-149, 2010, ISBN 978-0-7354-0810-4
12.	Numerical study of heat transfer in buildings=for different environmental conditions;	<u>A. Neculae</u> , S. Arjoca, D. Vizman	American Institute of Physics Conference Proceedings 1387, Proceedings of the physics conference TIM-10, Timisoara, ROMANIA, November 25-27, 2010, p.276-281, 2011, ISBN 978-0-7354-0951-4
13.	Numerical study regarding the influence of electrodes' geometry on the dielectrophoretic forces;	<u>A. Neculae</u> , M. Lungu, T. Nicolici-Schultz, M. Bunoiu	American Institute of Physics Conference Proceedings 1387, Proceedings of the physics conference TIM-10, Timisoara, ROMANIA, November 25-27, 2010, p.270-275, 2011, ISBN 978-0-7354-0951-4
14.	Electrohydrodynamic modeling for manipulation of micro/nano particles in microfluidic systems;	<u>A. Neculae</u> , M. Lungu, M. Bunoiu, R. Giugiulan	American Institute of Physics Conference Proceedings 1472, Proceedings of the physics conference TIM-11, Timisoara, ROMANIA, November 24-27, 2011, p.155-161, 2012, ISBN 978-0-7354-1079-4
15.	Numerical analysis of the diffusive mass transport in brain tissues with applications to optical sensors;	<u>A. Neculae</u> , A. Otte, D. Curticapean:	Proceedings of SPIE, Book Editor(s): Gannot, I, Volume: 8576, Article Number: 857605, DOI: 10.1117/12.2004436 Published: 2013, ISBN: 978-0-8194-9345-3 <a href="http://spie.org/Publications/Proceedings/Volume/8576">http://spie.org/Publications/Proceedings/Volume/8576</a> ; 8 pagini
16.	Submicron particle trapping using traveling wave dielectrophoresis;	M. Lungu, R. Giugiulan, M. Bunoiu, N. Strambeanu and <u>A. Neculae</u>	American Institute of Physics Conference Proceedings 1564, Proceedings of the physics conference TIM-12, Timisoara, ROMANIA, November 27-30, 2012, p.111-116, 2013, ISBN 978-0-7354-1192-0 <a href="http://dx.doi.org/10.1063/1.4832804">http://dx.doi.org/10.1063/1.4832804</a>
17.	Numerical simulation of bioparticle separation by Dielectrophoretic Field-Flow-Fractionation (DEP-FFF);	A. Marchis, <u>A. Neculae</u>	American Institute of Physics Conference Proceedings 1634, Proceedings of the physics conference TIM-13, Timisoara, ROMANIA, November 21-24, 2013, p.161-167, Melville, New York, 2014, ISBN 978-0-7354-1273-6
18.	Study of a 3D DEP-based microfluidic system for selective nanoparticle manipulation,	M. Lungu, S. Balasiu, M. O. Bunoiu and <u>A. Neculae</u>	American Institute of Physics Conference Proceedings 1634, Proceedings of the physics conference TIM-13, Timisoara, ROMANIA, November 21-24, 2013, p.89-94, Melville, New York, 2014, ISBN 978-0-7354-1273-6

19.	Nanoparticles Trapping from Flue Gas Using Dielectrophoresis,	<u>Neculae, A</u> ; Strambeanu, N ; Lungu, A; Bunoiu, M; Lungu, M	TIM14 PHYSICS CONFERENCE: PHYSICS WITHOUT FRONTIERS Book Series: AIP Conference Proceedings Volume: 1694 Article Number: UNSP 040004 Published: 2015
20.	Recovery of Nanoparticles from Flue Gas using Dielectrophoresis,	<u>Neculae, A</u> ; Lungu, A; Strambeanu, N; Lungu, M.	Proceedings of the 24th International Mining Congress and Exhibition of Turkey, IMCET 2015 Pages: 1382-1388 Published: 2015
21.	Analysis of Airborne Particulate Matter Pollution in Timisoara City Urban Area and Correlations Between Measurements and Meteorological Data,	Lungu, M; Lungu, A; Stefu, N; <u>Neculae, A</u> ; Strambeanu, N.	AIP Conference Proceedings Volume: 1796 Article Number: UNSP 040011, Published: 2017
22.	Study on nanoparticles flow reduction tests to HWI plants using numerical simulations,	Lungu, M; <u>Neculae, A</u> ; Lungu, A; Strambeanu, N; Arghiriade, D; Demetrovici, L.	20TH INTERNATIONAL SYMPOSIUM - THE ENVIRONMENT AND THE INDUSTRY (SIMI 2017) 99-111, 2017

### Proiecte de cercetare (lista celor mai importante)

- 16 contracte de cercetare nationale si internationale (membru)

Selectie:

1) NANOPV : Cercetari privind cresterea eficientei celulelor fotovoltaice nanostructurate – Contract Nr. 247/1/2006 (pana in 2008)

2) PASOR : Cercetari privind elaborarea si promovarea solutiilor de arhitectura solara pentru sisteme PV integrate in cladiri – Contract tip PN II, nr. 1/21039/2007 (pana in 2010) - membru

3) STEPS TWO (European project), 142371-LLP-1-2008-BE-ERASMUS-ENV (01.10.2008-30.09.2011) – expert

4) HOPE - Horizons in Physics Education (European Project) 2013-2016, <http://hopenetwork.eu/content/horizons-physics-education> - expert

5) EPCOMDA (proiect transfrontalier România-Ungaria) – Depozit complex de date moleculare pentru protectia mediului; HURO/0901/037/2.2.2. (01.02.2011-31.07.2012) – expert

6) Reducerea emisiilor de nanoparticule prin optimizarea proceselor de filtrare a gazelor reziduale de ardere – PN-II-ID-PCE-2011-3-0762 (25 octombrie 2011 – 24 oct. 2014) – membru

### Alte distincții

- Premiul “Șerban Țițeica” -2015, Științe Fizice, al Academiei Oamenilor de Știință din România, pentru cartea “Nanoparticles’ Promises and Risks”, Editura Springer, 2015.

01.06.2023

