

Memoriul de activitate științifică prof.univ.dr.habil.ing. Alina Adriana MINEA

1. REZULTATELE OBTINUTE ÎN ACTIVITATEA DE CERCETARE ȘTIINȚIFICĂ (ARTICOLE PUBLICATE ÎN REVISTE COTATE WoS, VOLUME WoS PROCEEDINGS, REVISTE BDI, CĂRȚI, BREVETE)

1.1. Articole publicate în reviste cotate WoS: 76

De-a lungul anilor am publicat lucrări de specialitate indexate / cotate în baza de date WoS, în reviste cu factor mare de impact, cum ar fi:

• Renewable and Sustainable Energy Reviews	FI 2019: 12.11
• Applied Energy	FI 2019: 8.848
• Solar Energy Materials and Solar Cells	FI 2019: 6.984
• Renewable energy	FI 2019: 6.274
• Journal of Molecular Liquids	FI 2019: 5.065
• International Journal of Heat And Mass Transfer	FI 2019: 4.974
• Nanomaterials	FI 2019: 4.324
• International Communications in Heat and Mass Transfer	FI 2019: 3.971
• Chemical Engineering Science	FI 2019: 3.871
• Thermochemica Acta	FI 2019: 2.762
• Journal of Thermal Analysis and Calorimetry	FI 2019: 2.731
• Experimental Heat Transfer	FI 2019: 2.543
• Microfluidics and Nanofluidics	FI 2019: 2.489
• Applied Sciences	FI 2019: 2.474
• Flow, turbulence and combustion	FI 2019: 2.472
• Mechanics Research Communications	FI 2019: 2.282
• Continuum Mech. Thermodyn	FI 2019: 2.139
• Heat and Mass Transfer	FI 2019: 1.867
• Current Nanosciences	FI 2019: 1.836
• Energy Sources Part B: Economics, Planning, and Policy	FI 2019: 1.758
• Heat Transfer Engineering	FI 2019: 1.693
• Thermal Science Journal	FI 2019: 1.574

având un **factor de impact cumulat de 197.76.**

Lucrările publicate sunt:

1. **A.A. Minea**, Overview of ionic liquids as candidates for new heat transfer fluids, International Journal of Thermophysics, (2020), DOI: 10.1007/s10765-020-02727-3
2. E.I. Cherecheș, J.I. Prado, C. Ibanescu, M. Danu, **A.A. Minea**, L. Lugo, Viscosity and isobaric heat capacity of alumina Nanoparticle Enhanced Ionic Liquids: an experimental approach, Journal of Molecular Liquids, (2020), <https://doi.org/10.1016/j.molliq.2020.114020>.
3. E.I. Chereches, M. Chereches, A. Alexandru, A. Dima, **A.A. Minea**, Nanoparticles in ionic liquids: numerical evaluation of heat transfer behaviour in laminar flow, Heat Transfer Engineering, (2020), <https://doi.org/10.1080/01457632.2020.1818372>.
4. P. Kanti, K. V. Sharma, C. G. Ramachandra, **A. A. Minea**, Effect of ball milling on the thermal conductivity and viscosity of Indian coal fly ash nanofluid, Heat Transfer, DOI: 10.1002/htj.21836, 2020.
5. E.I. Chereches, **A.A. Minea**, Experimental evaluation of electrical conductivity of ionanofluids based on water - [C2mim][CH3SO3] ionic liquids mixtures and alumina nanoparticles, Journal of Thermal Analysis and Calorimetry, (2020), DOI: 10.1007/s10973-020-09925-z.
6. T. M. Simionescu, I. Spiridon, C.D. Varganici, R.N. Darie-Nita, **A. A. Minea**, An experimental study on mechanical and thermal behavior of acrylonitrile butadiene styrene enhanced with fire retardants, Environmental Engineering and Management Journal, 19 (2020) 773-783

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8. **AA Minea**, Pumping power and heat transfer efficiency evaluation on Al₂O₃, TiO₂ and SiO₂ single and hybrid water-based nanofluids for energy application, *Journal of Thermal Analysis and Calorimetry*, 2020 139(2), pp. 1171-1181.
9. T. M. Simionescu, **A. A. Minea**, The effect of montmorillonite clay and fire retardants on the heat of combustion of recycled acrylonitrile-butadiene styrene, *Environmental Engineering and Management Journal*, 2019, 18(11) 2387-2396.
10. T.M. Simionescu, **A.A. Minea**, Paulo N.B. Reis, Fire properties of acrylonitrile butadiene styrene enhanced with organic montmorillonite and exolit fire retardant, *Appl. Sci.* 2019, 9(24), 5433
11. **A A Minea**, A Review on Electrical Conductivity of Nanoparticle-Enhanced Fluids, *Nanomaterials* 2019, 9(11), 1592
12. E I Chereches, **A A Minea**, Electrical conductivity of new nanoparticle enhanced fluids: an experimental study, *Nanomaterials* 9 (2019) 1228.
13. **A. Minea**, B. Buonomo, J. Burggraf, D. Ercole, K. R. Karpaiya, A. Di Pasqua, G. Sekrani, J. Steffens, J. Tibaut, N. Wichmann, P. Farber, A. Huminic, G. Huminic, R. Mahu, O. Manca, C. Oprea, S. Poncet, J. Ravnik, , NanoRound: A benchmark study on the numerical approach in nanofluids' simulation, *International Communications in Heat and Mass Transfer*, 108 (2019) 104292
14. E I Cherecheș, JI Prado, M Cherecheș, **AA Minea**, L. Lugo, Experimental study on thermophysical properties of alumina nanoparticle enhanced ionic liquids, *Journal of Molecular Liquids* 291 (2019) 111332
15. Moldoveanu, G.M., **Minea, A.A.**, Specific heat experimental tests of simple and hybrid oxide-water nanofluids: Proposing new correlation, *Journal of Molecular Liquids* 279 (2019) 299-305
16. Moldoveanu, G.M., **Minea, A.A.**, Huminic, G., Huminic, A., Al₂O₃/TiO₂ hybrid nanofluids thermal conductivity: an experimental approach, *Journal of Thermal Analysis and Calorimetry*, 137 (2) (2019) 583-592
17. W. M. El-Maghlany, **A. A. Minea**, Novel empirical correlation for ionanofluid PEC inside tube subjected to heat flux with application to solar energy, *Journal of Thermal Analysis and Calorimetry*, 135 (2019) 1161–1170
18. **A. A. Minea**, M. G. Moldoveanu, Overview of Hybrid Nanofluids Development and Benefits, *Journal of Engineering Thermophysics*, 27 (2018) 27 507–514
19. **A. A. Minea**, P. Estelle, Numerical study on CNT nanofluids behavior in laminar pipe flow, *Journal of Molecular Liquids*, 271 (2018) 281-289
20. Moldoveanu, G.M., Huminic, G., **Minea, A.A.**, Huminic, A., Experimental study on thermal conductivity of stabilized Al₂O₃ and SiO₂ nanofluids and their hybrid, *International Journal of Heat and Mass Transfer*, 127 (2018) 450-457
21. **Minea, A.A.**, Murshed, S.M.S., A review on development of ionic liquid based nanofluids and their heat transfer behavior, *Renewable and Sustainable Energy Reviews*, 91 (2018) 584-599
22. E. I. Chereches, K. V. Sharma, **A. A. Minea**, A numerical approach in describing ionanofluids behavior in laminar and turbulent flow, *Continuum Mech. Thermodyn.*, 30 (2018) 657–666
23. G.M. Moldoveanu, C Ibanescu, M. Danu, **A.A. Minea**, Viscosity estimation of Al₂O₃, SiO₂ nanofluids and their hybrid: An experimental study, *Journal of Molecular Liquids*, 253 (2018) 188-196
24. **A. A. Minea**, W. M. El-Maghlany, Influence of hybrid nanofluids on the performance of parabolic trough collectors in solar thermal systems: recent findings and numerical comparison, *Renewable energy*, 120 (2018) 350-364.
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27. S. Akilu, A. T. Baheta, **A. A. Minea**, K.V. Sharma, Rheology and thermal conductivity of non-porous silica (SiO₂) in viscous glycerol and ethylene glycol based nanofluids, *International Communications in Heat And Mass Transfer*, 88 (2017) 245-253
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1.2. Articole publicate în WoS proceedings: 3

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2. Minea, AA; Luciu, RS; Manca, O, Influence Of Microtube Heating Geometry On Behavior Of An Alumina Nanofluid At Low Reynolds Numbers, INNOVATIVE MANUFACTURING ENGINEERING, Applied Mechanics and Materials, 371 (2013) 596
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1.3. Articole publicate în alte baze de date (Scopus, Scholar): 72

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1.5. Brevete

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2. REZULTATE OBȚINUTE ÎN ACTIVITATEA DE CONDUCERE DE DOCTORAT ȘI MANAGEMENTUL ACTIVITĂȚII DIDACTICE ȘI DE CERCETARE

2.1. Numărul de teze de doctorat finalizate

Conducerea de doctorat am obținut-o în anul 2014, în luna octombrie 2014 am putut prelua primii 2 doctoranzi, iar în anul 2019 primul doctorand a susținut teza.

La momentul actual, 2 dintre doctoranzi au susținut teza, dintre care ultimul cu calificativul „excelent”.

2.2. Activitatea în cadrul școlilor doctorale sau în proiecte de susținere a activității acestora

Activez în cadrul Școlii Doctorale TUIASI începând cu octombrie 2014, după obținerea titlului de dr.habil.

Poziții de management în cadrul Școlii Doctorale TUIASI:

05/2016–02/2018 Director Școala Doctorală SD_SIM, Universitatea Tehnică "Gh. Asachi" Iasi

02/2018–prezent Director CCPD SIM, Universitatea Tehnică "Gh. Asachi" Iasi, domeniul Ingineria materialelor, Facultatea Știința și Ingineria Materialelor.

În ultimii 6 ani am participat în calitate de membru sau președinte la diferite acțiuni cum ar fi:

Membru comisii doctorat: 14 comisii în România și 7 comisii în străinătate (Franța, Canada, Italia, India):

- Președinte al comisiei de doctorat pentru diferite sustineri de teze in cadrul TUIASI: 13 participări (11 ca președinte și 2 ca membru)

- membru comisie de doctorat: București 2007

- Membru comisie doctorat pentru o teza de doctorat in India, decembrie 2017.

- Membru comisie doctorat pentru o teza de doctorat in Franța, Lyon, ianuarie 2018.

- Membru comisie doctorat pentru o teza de doctorat in Montreal, University of Sherbrook, Canada, 25 octombrie 2018.

- Membru comisie doctorat pentru o teza de doctorat in Italia, noiembrie 2018.

- Membru comisie doctorat pentru o teza de doctorat in India, martie 2019.

- Membru comisie doctorat pentru o teza de doctorat in India, septembrie 2019.

- Membru comisie doctorat pentru o teza de doctorat in Franța, Rennes, octombrie 2020.

Membru comisii indrumare: 4 doctoranzi: <https://sim.tuiasi.ro/wp-content/uploads/2020/05/Tabel-comisii-de-indrumare.pdf>

Membru comisii susținere referate și proiecte de cercetare științifică în cadrul SD TUIASI, din 2010: peste 20 participări

Președinte comisie admitere doctorat domeniul IM: 2016 – 2020 (5 ani)

Membru comisii de concurs posturi didactice:

- național: 10

- internațional: 1 (Danemarca, SDU)

Organizare Seminarii pentru Școala Doctorală: 3 (<https://sim.tuiasi.ro/seminarii-si-evenimente-stiintifice-c-c-p-d-sim/>)

Acțiuni de susținere a activității Școlii Doctorale:

- **activități de promovare** susținute în anul 2019 și 2020 prin intermediul participărilor la diferite târguri, ca de exemplu: Târgul de Cariere 2020.

- **activități de promovare** prin organizarea și actualizarea periodică a site-ului CCPD_SIM.

- **întocmirea dosarului de evaluare** a CCPD-SIM pentru anii 2014-2019

- **activități de susținere a doctoranzilor:** târguri de promovare a studiilor tip Erasmus pentru doctoranzi (2018, 2019, 2020), concretizate prin accesul doctoranzilor la infrastructuri de cercetare europene (**6 doctoranzi**)

- **activități de instruire a doctoranzilor:** seminarii și scoli de vara organizate în cadrul Facultății SIM, (4 Scoli de vară și 2 seminarii): <https://sim.tuiasi.ro/seminarii-si-evenimente-stiintifice-c-c-p-d-sim/>.

- **activități de instruire doctoranzi:** 8 doctoranzi instruiți prin proiectul “Perfecționarea continuă a personalului didactic din universitate – garanție a respectării deontologiei profesionale și a eticii academice (PERF-DEONTETIC)” cod CNFIS-FDI-2017-0065

2.3. Atragerea de tineri cercetători doctoranzi/post-doc

- **activități de promovare** susținute în anul 2019 și 2020 prin intermediul participărilor la diferite târguri, ca de exemplu: Târgul de Cariere 2020.

- **activități de susținere a doctoranzilor:** târguri de promovare a studiilor tip Erasmus pentru doctoranzi (2018, 2019, 2020), concretizate prin accesul doctoranzilor la baze de cercetare europene (6 doctoranzi)

- *activități de instruire a doctoranzilor*: seminarii organizate în cadrul Facultății SIM, Scoli de vară (4 Scoli de vară și 2 seminarii): <https://sim.tuiasi.ro/seminarii-si-evenimente-stiintifice-c-c-p-d-sim/>.

2.4. Implicarea în organizarea de manifestări științifice

Co-Organizator al evenimentelor naționale:

2019: The TUIASI Doctoral School International Conference May, 2019, Iasi, Romania

2020: The TUIASI Doctoral School International Conference November 5th-7th, 2020, Iasi, Romania

Organizator principal al evenimentelor internaționale:

2010: Summer School on ADVANCES IN HEAT TRANSFER ENHANCEMENT: FROM BASIC TO NANO:

<http://www12.tuiasi.ro/facultati/sim/index.php?page=413>

2012: Summer School on ADVANCES IN HEAT TRANSFER ENHANCEMENT: FROM BASIC TO NANO, 2-

nd edition: <http://www12.tuiasi.ro/facultati/sim/index.php?page=413>

2014: Summer School on ADVANCES IN HEAT TRANSFER ENHANCEMENT: FROM BASIC TO NANO, 3-

rd edition: <http://www12.tuiasi.ro/facultati/sim/index.php?page=413>

2016: Summer School on ADVANCES IN HEAT TRANSFER ENHANCEMENT: FROM BASIC TO NANO, 4-

th edition: <http://www12.tuiasi.ro/facultati/sim/index.php?page=413>

Co-organizator evenimente științifice COST Nanouptake, în calitate de Manager cu diseminarea activităților științifice:

- The European Symposium on Nanofluids (ESNf), 2017 – Lisabona, Portugalia
- 1st International Conference on Nanofluids (ICNf) and the 2nd European Symposium on Nanofluids (ESNf), 2019, Castellon, Spania

3. RECUNOAȘTEREA ÎN COMUNITATEA ACADEMICĂ

3.1. Profesor invitat

În decursul anilor am fost invitată să țin diferite prelegeri la Universități de prestigiu europene, prelegeri adresate atât studenților cât și doctoranzilor. Finanțarea a fost oferită prin programul Erasmus, astfel:

1. la Seconda Universita degli Studi di Napoli in 2009
2. la Seconda Universita degli Studi di Napoli in 2010
3. la Seconda Universita degli Studi di Napoli in 2013
4. in Austria, Leoben University, in 2011
5. in Portugal, University of Beira Interior, in 2012
6. in France, University of Poitiers, in 2013
7. in Portugal, University of Beira Interior, in 2014
8. in Bulgaria, University UCTM, in 2014
9. la Seconda Universita degli Studi di Napoli in mai 2015
10. la Technical University of Athens, Grecia in decembrie 2015
11. in Bulgaria, University UCTM, in 2016
12. la Universitatea Peter The Great Polytechnic University, St. Petersburg, Russia în 2018
13. in Norvegia, NTNU Trondheim in 2019

3.2. Lucrări/ prelegeri la conferințe (Key – note speaker)

Începând cu anul 2019 am fost invitată în calitate de *Key Note Speaker la 15 conferințe sau evenimente internaționale (tip Training School)*:

1. Invited speaker pentru HTE Conference, Moscow, 2009:
<http://www.wseas.org/conferences/2009/russia/hte/Plenary3.htm>
2. Invited speaker pentru TEHNOMUS 2013, Suceava, Romania:
http://www.fim.usv.ro/conf_1/TEHNOMUS/
3. Invited speaker pentru Conference IManE 2014, 27-30 May 2014, Chisineu, Moldavia:
<http://www.imane.ro/conference-program/>
4. Invited trainer pentru Summer school in Composite Materials in Portugalia in: 2012, 2013, 2014.
5. Invited speaker pentru Conference ISTP 26, Austria, 27.09 – 1.10 2015: <http://www.istp26.at/en/1/>
6. Invited speaker pentru INTERNATIONAL CONFERENCE ON MATERIAL SCIENCE & ENGINEERING, UgalMat 2016, MAY 19 - 21, 2016, GALATI, ROMANIA:
<http://www.ugalmat.ugal.ro/>
7. Invited speaker pentru Conference ICMM 2016, Bulgaria, 26.09 2016:
<http://icmm2016.com/organizers/conference-committee/>
8. Key speaker for TUIasi, First conference of Doctoral Schools, 29-30 mai 2017, Iasi, Romania
9. Invited speaker la First International Conference on Energy Systems Engineering, (ICESE'17) 2017, Turcia, november 2017, <http://icese17.com/22-2/>
10. Invited speaker at NANOSTRUC 2018, Berlin, may 2018: <https://www.nanostruc.info/nanostruc-conference.html>
11. Invited speaker at Modtech 2018, Constanta, Romania, iunie 2018:
http://modtech.ro/conference/invited_speakers.php
12. Invited Trainer la COST Training School in nanofluids, Rzeszow, Polonia, 2018.
13. Invited speaker at IAPE 2019: Innovative Applied Energy, Oxford, UK, martie 2019; <http://iape-conference.org/index.php/2018-05-02-19-15-06/keynote-talks>

3.3. Citări în reviste cotate WoS (cu excepția autocitărilor)

79 lucrări indexate WoS, h-index 15 și 772 citări (659 citări fără autocitări), Sursa: Web of Science
97 lucrări indexate Scopus, h-index 16 și 909 citări (778 citări fără autocitări), Sursa: SCOPUS
h-index 18, i-10 index 31 și 1176 citări, Sursa: GOOGLE SCHOLAR

Profilul public:

<http://orcid.org/0000-0002-2473-184X>

ResearcherID: C-7307-2009

Scopus Author ID: 23493089800

PUBLONS: <https://publons.com/researcher/444769/alina-adriana-minea>

3.4. Membru în comisii de interes național (CNATDCU, CNCS ș.a.).

- membru comisie de analiză a raportului “Energy Transition and the Future of Energy Research, Innovation and Education: An Action Agenda for Europe’s Universities”, decembrie 2017
- Membru registrul national de evaluatori ARACIS: <http://pfe.aracis.ro/inscriere/registru/evaluator/233/>
- Membru comisie contestație CNATDCU Ingineria Materialelor 2016-2020
- Membru Advisory Board TEST (www.thermofluids.net), cursuri web based

3.5. Alte forme de recunoaștere

Începând cu anul 2009 am inițiat și sunt responsabil TUIASI în numeroase acorduri de colaborare inter-instituționale ce au inclus atât cooperarea în domeniul didactic cât și în cercetare. Se pot evidenția:

- acorduri tip Erasmus cu Universități din Italia, Spania, Portugalia, Franța, Bulgaria, Austria, Norvegia, Grecia;
- acorduri de cooperare științifică între TUIASI și universități de prestigiu din Italia (Parma și Campagna), Rusia (TSTU and St. Petersburg).

Capacitatea de a coopera la nivel internațional este dovedită atât prin proiecte finanțate, propuneri de proiecte (Horizon 2020, EEA grants etc), invitații în Editorial Board, Key speaker, dar și prin realizarea de lucrări comune cu experți recunoscuți în domeniu (de la universități de prestigiu: University of Lisbon - Portugal, University of Campagna - Italy, University of Rennes - France, Hiderabad University – India, University of Sherbrooke – Canada, University of Coimbra – Portugal etc), și așa putea cita lucrările:

1. P. Kanti, **K. V. Sharma**, C. G. Ramachandra, **A. A. Minea**, Effect of ball milling on the thermal conductivity and viscosity of Indian coal fly ash nanofluid, *Heat Transfer*, DOI: 10.1002/htj.21836, 2020.
2. E I Chereches, **A A Minea, K.V. Sharma**, A complex evaluation of [C 2 mim][CH 3 SO 3]–alumina nanoparticle enhanced ionic liquids internal laminar flow, *International Journal of Heat and Mass Transfer*, 154 (2020) 119674.
3. T.M. Simionescu, **A.A. Minea, Paulo N.B. Reis**, Fire properties of acrylonitrile butadiene styrene enhanced with organic montmorillonite and exolit fire retardant, *Appl. Sci.* 2019, 9(24), 5433
4. **A. Minea, B. Buonomo, J. Burggraf, D. Ercole, K. R. Karpaiya, A. Di Pasqua, G. Sekrani, J. Steffens, J. Tibaut, N. Wichmann, P. Farber, A. Huminic, G. Huminic, R. Mahu, O. Manca, C. Oprea, S. Poncet, J. Ravnik**, , NanoRound: A benchmark study on the numerical approach in nanofluids' simulation, *International Communications in Heat and Mass Transfer*, 108 (2019) 104292
5. E I Cherecheș, **J I Prado**, M Cherecheș, **AA Minea, L. Lugo**, Experimental study on thermophysical properties of alumina nanoparticle enhanced ionic liquids, *Journal of Molecular Liquids* 291 (2019) 111332
6. **W. M. El-Maghlany, A. A. Minea**, Novel empirical correlation for ionanofluid PEC inside tube subjected to heat flux with application to solar energy, *Journal of Thermal Analysis and Calorimetry*, 135 (2019) 1161–1170
7. **A. A. Minea, P. Estelle**, Numerical study on CNT nanofluids behavior in laminar pipe flow, *Journal of Molecular Liquids*, 271 (2018) 281-289
8. **Minea, A.A., Murshed, S.M.S.**, A review on development of ionic liquid based nanofluids and their heat transfer behavior, *Renewable and Sustainable Energy Reviews*, 91 (2018) 584-599
9. E. I. Chereches, **K. V. Sharma, A. A. Minea**, A numerical approach in describing ionanofluids behavior in laminar and turbulent flow, *Continuum Mech. Thermodyn.*, 30 (2018) 657–666
10. **A. A. Minea, W. M. El-Maghlany**, Influence of hybrid nanofluids on the performance of parabolic trough collectors in solar thermal systems: recent findings and numerical comparison, *Renewable energy*, 120 (2018) 350-364.
11. S. Akilu , A. T. Baheta , M. A. M.Said , **A.A. Minea , K.V. Sharma**, Properties of glycerol and ethylene glycol mixture based SiO₂-CuO/C hybrid nanofluid for enhanced solar energy transport, *Solar Energy Materials and Solar Cells*, 179 (2018) 118-128
12. S. Akilu, A. T. Baheta, **A. A. Minea, K.V. Sharma**, Rheology and thermal conductivity of non-porous silica (SiO₂) in viscous glycerol and ethylene glycol based nanofluids, *International Communications in Heat And Mass Transfer*, 88 (2017) 245-253
13. **A. A. Minea, W. M. El-Maghlany**, Natural convection heat transfer utilizing ionic nanofluids with temperature-dependent thermophysical properties, *Chemical Engineering Science* 174 (2017) 13–24
14. **A.A. Minea, G. Lorenzini**, A numerical study on ZnO based nanofluids behavior on natural convection, *International Journal Of Heat And Mass Transfer* 114 (2017) 286-296 2017
15. **AA Minea, O Manca**, Field-synergy and Figure of Merit Analysis of Two Oxide Water Based Nanofluid Flow in Heated Tubes, *Heat Transfer Engineering*, 38, (2017) 909-918.
16. **A. M. Amaro, F. V. Antunes, M. A. Neto, P. N. B. Reis, A. A. Minea**, Resonant techniques as non-destructive techniques (ndt) applied to composite materials: case study on low velocity impacts detection, *Environmental Engineering and Management Journal*, 14 (5): 1045-1052, 2015

17. V. Bianco, O. Manca, A. A. Minea, S. Nardini, An analysis of the electricity sector in Romania, *Energy Sources Part B: Economics, Planning, and Policy*, DOI:10.1080/15567241003792366, vol. 9, pp. 149 – 155, 2014.

Coordonarea unor proiecte unice pe plan internațional, în domeniul noilor fluide de transfer de căldură: o lucrare tip Benchmark (Nanoround – publicată în 2019 în *International Communications in Heat and Mass transfer*) și prima carte la nivel internațional despre noi fluide de transfer termic: *Advances in New Heat Transfer Fluids* (publicată la Taylor and Francis în 2017).

Premii obținute (sumar): 52 premii naționale, 10 premii internaționale și 2 premii TUIASI pentru cele mai bune rezultate în cercetarea științifică (în 2016 și 2019)

- BEST REVIEWER for 2012, *Journal Applied Energy*, ELSEVIER
- BEST REVIEWER for 2016, *Journal Applied Energy*, ELSEVIER
- 2017: Premiul “Traian Negrescu” al ASTR pentru cartea: “Tratat de Stiinta si Ingineria Materialelor”
- premii UEFISCDI România pe lucrări publicate: 42 premii în perioada 2015-2019

Associate Editor pentru reviste indexate WoS, Elsevier / Springer:

- Associate Editor, **Journal of Thermal Science (Springer)** (WoS, IF 1.228)
- Associate Editor **International Journal of Thermophysics (SPRINGER)**, (WoS, IF 0.853),
- Guest Editor in Chief Special Issue "Future and Prospects in Nanofluids Research" in **Nanomaterials journal, MDPI**, (WoS, IF 4.034)
- Guest Editor in Chief Special Issue on nanoparticle enhanced ionic liquids. **International Journal of Thermophysics (SPRINGER)**, (WoS, IF 0.853)

Membru in Editorial Boards pentru reviste Web of Science / SCOPUS:

- Membru in Editorial Board ANNALS OF “DUNAREA DE JOS” UNIVERSITY OF GALATI, Fascicle XII, WELDING EQUIPMENT AND TECHNOLOGY:(SCOPUS)
- Membru in Regional Editorial Board **Journal of Thermal Sciences (WoS, IF 1.541)**
- Guest Editor in chief IREME – Special Issue on Heat Transfer 2010, 2011, 2012 and 2013
- Membru in Editorial Board **Thermal Science and Engineering Progress (Elsevier)** (SCOPUS)
- Membru Reviewer Board **Micromachines, MDPI**, (WoS, IF 2.426)
- Topic Editor **Nanomaterials journal, MDPI**, (WoS, IF 4.324)

Membru in Editorial Boards alte reviste (indexate Scholar)- selecție:

- Editor in chief IREHeat: <http://www.praiseworthyprize.com/ireheat.htm>
- Editor-in-chief International Journal of Metallurgical Engineering from 2012: <http://www.sapub.org/journal/editorialboard.aspx?JournalID=1063>
- Membru in Editorial Board International Journal of Advanced Thermofluid Research (IJATR): http://ijatr.org/index.php?option=com_content&view=article&id=19&Itemid=63
- Membru in Editorial Board International Journal of Energy and Environment from 2012: <http://www.naun.org/wseas/cms.action?id=3043>
- International Journal of Nanoparticles and Nanotechnology: <https://www.vibgyorpublishers.org/journals/reviewer-board.php?jid=ijnn>
- Membru Editorial Board Insight Physics: <http://insight.piscomed.com/index.php/IP/about/editorialTeam>

Chairman la evenimente internaționale:

- chairmen session U.2.4. HEAT AND MASS TRANSFER, Conference ASME-ATI-UIT: Thermal and Environmental Issues in Energy Systems 2010, may 2010, Sorrento, Italy
- chairman session G: Mechanical Equipment Design and Analysis, Conference IManE 2013, 22-24 May 2013, Iasi, Romania
- chairman session G: Mechanical Equipment Design and Analysis, Conference IManE 2014, 29-30 May 2014, Chisinau, Rep. Moldova
- chairmen session M1.3. Single phase heat transfer, Conference ASME-ATI-UIT: Thermal Energy Systems: Production, Storage, Utilization and the Environment 2015, may 2015, Naples, Italy
- chairmen session M1.4. Heat exchangers, Conference ASME-ATI-UIT: Thermal Energy Systems: Production, Storage, Utilization and the Environment 2015, may 2015, Naples, Italy
- chairman session A2: Heat exchanger, Conference ISTP26, september 2015, Leoben, Austria
- chairman session A3: Heat transport technology, Conference ISTP26, september 2015, Leoben, Austria
- chairman session C6: Micro and nano scale transport, Conference ISTP26, september 2015, Leoben, Austria
- chairman Session E: Physical & Mechanical Metallurgy. Materials, Conference ICMM 2016, Sofia, Bulgaria

- chairman Conference of PHD School, Technical University "Gh. Asachi" Iasi 2017
- chairman Session 1 (Renewable energy) IAPE 2019
- chairman Session 2 (Green energy) IAPE 2019:
- chairman session no. S6: Numerical Simulation on the Microscopic and Macroscopic Levels, ICNF 2019, Spania

Membru în International Committee la diferite conferințe: 95 invitații începând cu anul 2011, dintre care se pot evidenția:

- SOLARIS 2011, Czech Republic
- SUSTEM 2011, UK
- Conference IManE 2014, 27-30 May 2014, Chisineu, Moldavia
- International Conference on Computer and Systems Engineering Applications, CCSE 2014, 25-26 april Dubai
- Conference IManE 2015, 21-22 May 2015, Iasi, Romania
- International conference TEME 2015, Galati, Romania
- ISTP 26, Leoben, Austria
- SUSTEM 2015, Newcastle, UK
- 2015 International Conference on Systems Engineering and Computational Advances, 29-30 may 2015, China
- HTE '15: 13th International Conference on Heat Transfer, Thermal Engineering and Environment, Salerno Italy
- IMANE 2016, September 23-25, 2016 Kallithea Chalkidiki, Greece
- 7 th edition of INTERNATIONAL CONFERENCE ON MATERIAL SCIENCE & ENGINEERING, UgalMat 2016, MAY 19 - 21, 2016, GALATI, ROMANIA
- IMEIA 2016 Phuket, Thailand, 24-25 aprilie 2016
- The International Conference on Metallurgy & Materials (ICMM'16), Sofia, September 26 – 28, 2016
- 11th European Conference on Industrial Furnaces and Boilers, Portugal, 18-21 April 2017: - The 7th International Symposium on Advances in Computational Heat Transfer, CHT-17, Napoli, Italy, during 28 May - 02 June 2017
- The 21th edition of IManEE 2017 International Conference, May 25-26, 2017 Iasi, Romania
- TEME 2017: New trends in environmental and materials engineering, Galati, ROMANIA, 25-27 october
- European Symposium on Nanofluids (ESNF) Lisbon, Portugal, 8-10 October 2017
- ICPM 2017: 9TH International congress on precision machining, 6 - 9 september 2017, Athens, Greece
- TUIasi, First conference of Doctoral Schools, mai 2017, Iasi, Romania
- INTERNATIONAL CONGRESS ON CHEMISTRY AND MATERIALS SCIENCE, 5 - 7 OCTOBER, 2017 / ANKARA – TURKEY
- 2nd Renewable Energy Sources - Research and Business (RESRB) 2017 conference, June 19-21, Wrocław, Poland
- International Conference on Energy Management and Environmental Protection, Belek, Antalya, Turkey in February 1-4, 2018
- First International Conference on Energy Systems Engineering, (ICESE'17) 2017, Turcia, november 2017
- 1ST INTERNATIONAL CONFERENCE ON ADVANCES IN ENGINEERING AND TECHNOLOGY (ICAET)
- SCIENTIFIC COMMITTEE OF THE 2nd INTERNATIONAL SYMPOSIUM CIMEE'2018
- UGalMat 2018
- membru in Scientific Advisory Board (SAB) pentru conference RESRB 2018 – Belgium
- ICNF 2019, Castellon, Spania
- 3rd INTERNATIONAL ENGINEERING RESEARCH SYMPOSIUM (INERS'19) 5-7 SEPTEMBER 2019
- The 23rd edition of IManEE 2019 International Conference May 22 – 24, 2019 Pitesti, Romania
- The TUIASI Doctoral School International Conference, November 5th-7th, 2020, Iasi, Romania
- Building Services and Energy Efficiency, July 2, 2020 - July 3, 2020 - Iași, Romania

- Expert pentru programe de cercetare internaționale:

- expert EACI-IEE for Intelligent Energy Europe
- expert programme Fp7, HORIZON 2020
- expert HORIZON 2020, in aprilie-mai 2014, competition H2020-EE
- raporteur HORIZON 2020, in aprilie-mai 2014, competition H2020-EE
- expert HORIZON 2020, in octombrie 2014, competition H2020-LCE
- raporteur HORIZON 2020, in octombrie 2014, competition H2020
- expert HORIZON 2020, in martie 2015, competition H2020-EASME
- expert HORIZON 2020, in iunie 2015, competition H2020-second stage
- expert HORIZON 2020, in 2016, competition H2020
- raporteur HORIZON 2020, in 2016, competition H2020
- expert NCRB Poland in martie 2017, februarie 2018
- expert EUROSTARS, programme CDI in 2017: 3 projects; 2018: 4 projects; 2019: 4 projects; 2020: 6 projects
- expert Kazakhstan Ministry of Research, 2017

- expert HORIZON 2020, in 2018, competition H2020
- expert HORIZON 2020, in 2019, competition RES
- expert NCRB Poland in march 2019, february 2020

- **Stagii de cercetare – documentare în străinătate:**

- Portugal, Lisbon
- France, Paris
- Italy: Aversa, Rome, Milano
- Spain, Madrid
- UK, London

În iunie 2020 am fost invitată de firma Wattco Canada pentru a scrie câteva articole privind noi fluide de transfer termic, primul articol fiind deja publicat pe site la adresa: <https://www.wattco.com/2020/08/nanoparticle-heat-transfer-fluids/>. Wattco este o companie de prestigiu înființată în anul 1969, având ca obiect de activitate oferirea de soluții în diferite industrii cum ar fi: energie solară, sisteme HVAC, energie regenerabilă etc.

În comunitatea academică locală, **la nivelul TUIASI**, sunt sau am fost membru în:

- Consiliul Facultății SIM în perioada 2012 – 2016 și din 2020 până în prezent,
- Membru în numeroase echipe de expertizare a cercetării științifice (exemplu: proiecte tip Compete, ARUT, UEFISCDI etc),
- Membru în echipe de evaluare a programelor de studii pentru acreditare inițială sau periodică.

4. RESURSE FINANCIARE ATRASE PENTRU CERCETAREA ȘTIINȚIFICĂ SAU DEZVOLTAREA ȘCOLILOR DOCTORALE

4.1. Fonduri atrase prin proiecte de cercetare națională/ internațională, fonduri private sau contracte de cercetare cu angajatori economici;

De-a lungul anilor, **am coordonat ca director 4 proiecte de cercetare științifică câștigate prin competiție națională și am fost membru la 14 contracte științifice derulate prin TUIASI** (vezi lista de lucrări, care cuprinde denumirea contractelor și sumele atrase). În plus, **am coordonat la nivel național 8 contracte științifice și de networking internaționale**, oferind suport financiar (deplasări, achiziții echipamente, salarii etc) atât pentru doctoranzi cât și pentru diferite cadre didactice din universitate.

În ce privește doctoranzii, **un număr de 20 studenți doctoranzi au primit finanțare prin participarea în diferite proiecte de cercetare sau networking pe care le-am gestionat la nivelul universității**. În plus, există în derulare și alte proiecte care pot oferi finanțare studenților doctoranzi interesați sau care au tema lucrării de doctorat în domeniul proiectului. Detalii concrete sunt inserate în cele ce urmează.

Fonduri atrase prin proiecte naționale:

- 3 granturi derulate prin TUIASI, ca director

- nr de doctoranzi finanțați: 4

Contract de finanțare pentru executie proiecte nr. 81 / 01.10.2007

Programul PNCDI II, Categoria de proiect: IDEI

Denumirea proiectului: *Tehnici experimentale si CFD pentru optimizarea energetica a cuptoarelor electrice, prin modificarea geometriei spatiului de lucru*

Contractor: Universitatea Tehnică „Gh. Asachi” din Iași

Director de proiect: Minea Alina Adriana

Valoarea proiectului: 931 050 lei (RON)

Contract de finanțare pentru executie proiecte nr. 5882 / 2006

Programul MCT- EXCELENTA, Categoria de proiect:ET

Denumirea proiectului: *Reducerea consumurilor energetice ale instalatiilor de incalzire la temperaturi medii prin intensificarea proceselor de transfer de caldura si masa*

Contractor: Universitatea Tehnică „Gh. Asachi” din Iași

Director de proiect: Minea Alina Adriana

Valoarea proiectului: 130 000 lei (RON)

Contract de finanțare pentru executie proiecte nr. 63GR tema 28 / 2006

Programul CNCSIS, Categoria de proiect: AT

Denumirea proiectului: *Optimizarea energetica a instalatiilor de tratament termic al aliajelor de aluminiu, prin eficientizarea proceselor de transfer termic. Implicatii metalurgice*

Contractor: Universitatea Tehnică „Gh. Asachi” din Iași

Director de proiect: Minea Alina Adriana

Valoarea proiectului: 45 000 lei (RON)

Fonduri atrase prin proiecte internaționale:

- doctoranzi finanțați prin programul Erasmus plus, pe acordurile gestionate: 6

Responsabil acorduri de cooperare care includ doctoranzii: 12

1. Responsabil acord interuniversitar ERASMUS/ERASMUS+ între Universitatea Tehnică Gheorghe Asachi din Iași și Seconda Universita degli Studi di Napoli, Italia
2. Responsabil acord interuniversitar ERASMUS/ERASMUS+ între Universitatea Tehnică Gheorghe Asachi din Iași și MontainUniversitat Leoben, Austria
3. Responsabil acord interuniversitar ERASMUS/ERASMUS+ între Universitatea Tehnică Gheorghe Asachi din Iași și University of Beira Interior, Portugalia
4. Responsabil acord interuniversitar ERASMUS/ERASMUS+ între Universitatea Tehnică Gheorghe Asachi din Iași și UCTM, Bulgaria
5. Responsabil acord interuniversitar ERASMUS/ERASMUS+ între Universitatea Tehnică Gheorghe Asachi din Iași și University of Poitiers, Franta

6. Responsabil acord interuniversitar ERASMUS/ERASMUS+ între Universitatea Tehnică Gheorghe Asachi din Iasi și Technical University of Athens, Grecia
7. Responsabil acord interuniversitar ERASMUS+ între Universitatea Tehnică Gheorghe Asachi din Iasi și University of Lisbon, Portugalia
8. Responsabil acord interuniversitar ERASMUS+ între Universitatea Tehnică Gheorghe Asachi din Iasi și University of Parma, Italia
9. Responsabil acord interuniversitar ERASMUS+ între Universitatea Tehnică Gheorghe Asachi din Iasi și Technologiko Ekpaideftiko Idryma (TEI) of Sterea Ellada, Grecia
10. Responsabil acord interuniversitar ERASMUS+ între Universitatea Tehnică Gheorghe Asachi din Iasi și University of Vigo, Spain
11. Coordonator partea română pentru programul Erasmus IP cu Portugalia, Spania si Polonia (nr 2013-1-PT1-ERA10-16665).
12. Responsabil acord interuniversitar ERASMUS+ între Universitatea Tehnică Gheorghe Asachi din Iasi și University of Trondheim, NORWAY

Responsabil acorduri interuniversitare de cercetare care includ doctoranzii: 3

1. Tambov University, Russia
2. Parma University, Italia
3. University of Campania, Italia

Finanțare doctoranzi pentru participare la conferințe internaționale și Training school: 9 acțiuni prin proiectul COST CA 15119: Overcoming Barriers to Nanofluids Market Uptake (NANO-UPTAKE)

Doctoranzi finanțați prin Erasmus KA2: 1, în proiectul Erasmus IP cu Portugalia, Spania si Polonia (nr 2013-1-PT1-ERA10-16665).

Alte surse de finanțare atrase prin proiecte (în calitate de coordonator din partea TUIASI):

- Research Network GreTInMat: Horizon 2020, BG05M2OP001-2.009-0015, coordonator: UCTM, Sofia, Bulgaria
- CEEPUS III network: RS-1012 Building Knowledge and Experience Exchange in CFD; Coordinator of the whole network: University of Novi Sad, Faculty of Technical Sciences, Department for Energy and Process Engineering, PhD Sinisa Bikic
- April 2020- April 2021: Dissemination Manager of COST Action CIG-15119: Nanofluids for convective heat transfer devices, COST_ Horizon 2020
- April 2020- April 2021: Management Committee member of COST Action CIG-15119: Nanofluids for convective heat transfer devices, COST_ Horizon 2020
- Octombrie 2019 – Octombrie 2023: Membru în Management Committee COST Action CA18234 - Computational materials sciences for efficient water splitting with nanocrystals from abundant elements, COST_ Horizon 2020
- Octombrie 2019 – Octombrie 2023: Membru în Management Committee COST Action CA18202 - Network for Equilibria and Chemical Thermodynamics Advanced Research, COST_ Horizon 2020

4.2. Implicarea în proiecte finanțate din fonduri structurale de dezvoltare a programelor doctorale și post-doctorale (număr de doctoranzi și post-doctoranzi finanțați din fonduri structurale).

“Perfecționarea continuă a personalului didactic din universitate – garanție a respectării deontologiei profesionale și a eticii academice (PERF-DEONTETIC)” cod CNFIS-FDI-2017-0065

contribuție proiect: **8 studenți doctoranzi SIM**

12.09.2020

prof.univ.dr.habil.ing. Alina Adriana MINEA