

# LISTA DE ACTIVITĂȚI ȘTIINȚIFICE (COMPLETE LIST OF PUBLICATIONS)

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

## 1. Cărți (capitole) publicate (books or book chapters): 37, din care 14 sunt în străinătate (CRC Taylor and Francis, Elsevier, Springer etc)

1. **A. A. Minea**, S.M. Murshed, Ionanofluids potential use in heat exchangers, Handbook on Industrial Applications of Nanofluids in Energy Sector, Editors: Matthias H. Buschmann, Leonor Hernández López, Lucía Buj, Publisher: Bubok Publishing S.L, 2020
2. **A. A. Minea**, Hybrid nanofluids potential use on parabolic trough collectors, Handbook on Industrial Applications of Nanofluids in Energy Sector, Editors: Matthias H. Buschmann, Leonor Hernández López, Lucía Buj, Publisher: Bubok Publishing S.L, 2020
3. **A. A. Minea**, Numerical studies on nanoparticle stabilization in ionic liquid medium (IoNanofluids), 30 pages, ch. 5 in Joseph - Theoretical and Computational Approaches to Predicting Ionic Liquid Properties, Editors: Aswathy Joseph, Suresh Mathew, Academic Press Elsevier, ISBN: 9780128202807, 2020.
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5. A. N. Maksimovich, Arakelyan A.S. , Benoganyan N.V. , Byanko V., Vedishcheva Y., Gafiyatullina N.M., Zolotukhina Y., Levchenko A., Ice Yu.A., Maltseva K. V., Mamontov A., Mamontov S., Matis K , Manca O., **Minea A.A.**, Nardini S., Popov I., Prokshits E.A. , Olegovich S., Suzyumov A., Khachatrian R. , Shamamyanyan E., Sharovarov E., *Case studies in energy efficiency*, Publishing House "Agraf" (Moscow), Ekaterinburg, 214 pages, UDC: 69.003.13, eLIBRARY ID: 39251471, ISBN: 978-5-6043063-5-2, 2019
6. **A. A. Minea**, S.M. Murshed, *An insight of ionanofluids flow and heat transfer behavior for solar energy in Nanofluids and their Engineering Applications*, ed. K.R.V. Subramanian, Tubati Nageswara Rao, Avinash Balakrishnan, Chapter 11, CRC press Taylor & Francis, ISBN 9781138605268 - CAT# K388492, 2019
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## 2. Articole publicate (published articles): 149, din care 79 sunt indexate WoS

1. **A.A. Minea**, Overview of ionic liquids as candidates for new heat transfer fluids, International Journal of Thermophysics, 41, pp 151, (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, 114020 (2020), <https://doi.org/10.1016/j.molliq.2020.114020>.
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### 3. Brevete de invenție (Patents)

1. **A.A. Minea**, I.G. Sandu, *Procedeu de eficientizare a proceselor de transfer de caldura in cuptoarele electrice clasice pentru tratamentul termic la temperaturi medii*, B.I. no. 122743/30.12.2009, 2006

### 4. Articole prezentate la conferințe (articles at conferences): 55, din care 40 conferințe internaționale

1. E.I. Chereches, M. Chereches, **A.A. Minea**, A numerical study on ionic liquids - water mixture based ionanofluid enhanced with alumina nanoparticles, 31st European Congress on Nanotechnology and Materials Engineering, February 12-13, 2020, Paris, France.
2. G. Sekrani, S. Poncet, **A. Minea**, A. Di Pasqua and O. Manca, Numerical study on the thermal performance of titanium dioxide waterbased nanofluid in a heated pipe, ESNF 2019, 25-27 iunie, Castellon de la Plana, Spania, ISBN: 978-84-685-3917-1, DOI: <http://dx.doi.org/10.6035/CA15119.03>, 2019
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25. **A. A. Minea**, *Theoretical Approach to Estimate the Air Rate in a Heated Medium Temperature Furnace*, WSEAS, The 10th WSEAS International Conference on Mathematical Methods, Computational Techniques And Intelligent Systems (MAMECTIS '08) Corfu, Greece, October 26-28 2008, Paper ID number: 593-249, pp. 119-121, ISBN 978-960-474-012-3, ISSN 1790-2769, 2008 (*conferinta cotate ISI*)
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39. A Dima, E. Chirila, **A A Minea**, *Computer Design of electric arc furnaces*, 7<sup>th</sup> International Metallurgy and Materials Congress, Turcia, vol.1, p. 107-118, 1993
40. **A.A. Minea**, IG Sandu, R.G.. Stefanica, *The impact of simulation techniques on heat transfer enhancement*, Conferinta ASTR,Iasi, 19-20 nov., ISSN 2066-6586, pp 253-258, 2009
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44. Dima, **A. A. Minea**, I. Dima *A sustainable industrial development of materials science and engineering*, Technomus 2007, Suceava, 4-5 mai 2007, 2007
45. A. Dima, **A. A. Minea**, I. Dima, *Education supporting easting development*, Artcast 2006, 3th International symposion, Galati, 4-5 mai 2006, pg. 163-166, 2006
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50. **A.A. Minea**, A. Dima, O Minea, *Theoretical and experimental studies on an AlCu<sub>2</sub>Mg<sub>1</sub>5Ni aluminum alloy*, International conference on advanced materials and technologies, ROMAT 2004, 21 – 22 octombrie Bucuresti, Ed. Printech, pg 97 – 102, ISBN 973-718-081-X, 2004.
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53. M. Stefan, **A. A. Minea**, *Influenta unor parametri functionali asupra tehnologiilor de incalzire în vid*, Buletinul primului colocviu national tehnic interdisciplinar, Braila, 23 aprilie, 1993
54. A. Dima, E. Chirila, I. Cucos, **A. A. Minea**, *Invatarea creativa si testele de creativitate ca baze ale creativitatii tehnice*, Primul colocviu national tehnic interdisciplinar, Braila, 23 aprilie, 1993
55. **A. A. Minea**, *Instalatie pentru determinarea experimentală a pierderilor energetice prin fante la cuptoarele electrice*, Sesiunea stiintifica de fizica si chimie "Mijloace de învatamânt de concepie proprie", Iasi, 15 mai, 1988

#### 5. Proiecte de cercetare-dezvoltare (national research grants): 14 din care 4 ca director de proiect

1. Contract de finanțare pentru executie proiecte nr. 37 PCCDI /2018

*Programul PCCDI*

Categoria de proiect: proiecte complexe

Denumirea proiectului: Platforme teranostice antitumorale pe baza de carbon-dots si matrice polimerice

Autoritatea Contractantă: *UEFISCDI*

Contractor: Universitatea Tehnică „Gh. Asachi” din Iași

Director de proiect: Simionescu Bogdan, membru: **Minea Alina Adriana**

Valoarea proiectului: 5 287 500 lei (RON)

Valoare TUIASI: 2 009 300 ron

2. Contract de finanțare pentru executie proiecte nr. 275 /31.10.2008

*Programul INOVARE*

Categoria de proiect: CDI- orientate

Denumirea proiectului: *Tehnologia de realizare a pieselor auto metalice su straturi superficiale modificate zonal*

Autoritatea Contractantă: *AMCSIT*

Contractor: PROCOMIMPEX SRL Iași

Director de proiect: **Minea Alina Adriana**

Valoarea proiectului: 1 502 016 lei (RON)

3. 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)

4. Contract de finanțare pentru executie proiecte nr. 113.1 /29.09.2007

*Programul INOVARE*

Categoria de proiect: CDI- orientate

Denumirea proiectului: *tehnologie pentru sudo-brazarea structurilor duplex din otel de constructii protejat cu straturi de zinc*

Autoritatea Contractantă: AMCSIT

Director de proiect: Baciou Constantin, membru: **Minea Alina Adriana**

Valoarea proiectului: 1 822 963lei (RON)

5. Contract de finanțare pentru executie proiecte nr. 71-086 / 18.09.2007

*Programul PARTENERIATE IN DOMENIILE PRIORITARE*

Categoria de proiect: PROIECTE COMPLEXE

Denumirea proiectului: *Tehnologie modernă de obținere a straturilor fosfatate de înaltă porozitate pentru prelucrarea plastică volumică a pieselor din industria de automobile*

Autoritatea Contractantă: Centrul National de Management

Programe

Contractor: Universitatea Tehnică „Gh. Asachi” din Iași

Director de proiect: Bejinariu Costică, membru: **Minea Alina Adriana**

Valoarea proiectului: 1 640 000 lei (RON)

6. 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)

7. 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)

8. Contract de finanțare pentru executie proiecte nr. 171/2006

*Programul MCT EXCELENTA*

Categoria de proiect:MODUL1

Denumirea proiectului: *Sisteme expert pentru comanda sistemelor termice*

Contractor: Universitatea Tehnică „Gh. Asachi” din Iași

Director de proiect: Vizureanu Petrica, membru: **Minea Alina Adriana**

Valoarea proiectului: 930 000 lei (RON)

9. Contract de finanțare pentru executie proiecte nr. 293 / 13.09.2006  
*Programul „Cercetare de excelenta”*  
Categoriza de proiect: Modul: 1; Tip de proiect: P-CD  
Denumirea proiectului: *Sistem tehnologic performant pentru tragerea țevilor din oțeluri inoxidabile cu vibrații ultrasonice*  
Autoritatea Contractantă: *Agenția Managerială de Cercetare Științifică, Inovare și Transfer Tehnologic - POLITEHNICA*  
Contractor: Universitatea Tehnică „Gh. Asachi” din Iași  
Director de proiect: Susan Mihai, membru: **Minea Alina Adriana**  
Valoarea proiectului: 1 236 500 lei (RON)

10. Contract de finanțare pentru executie proiecte nr. 193 / 20.07.2006  
*Programul „Cercetare de excelenta”*  
Categoriza de proiect: Modul: 1; Tip de proiect: P-CD  
Denumirea proiectului: *Materiale multifuncționale cu granulație ultrafină/nanometrică obținută prin deformare plastică severă*  
Autoritatea Contractantă: *Agenția Managerială de Cercetare Științifică, Inovare și Transfer Tehnologic - POLITEHNICA*  
Contractor: Universitatea Tehnică „Gh. Asachi” din Iași  
Director de proiect: Comănești Radu, membru: **Minea Alina Adriana**  
Valoarea proiectului: 910 000 lei (RON)

11. Contract de finanțare pentru executie proiecte nr. 191 / 20.07.2006  
*Programul „Cercetare de excelenta”*  
Categoriza de proiect: Modul: 1; Tip de proiect: P-CD  
Denumirea proiectului: *„Sistem automat pentru obținerea piulițelor olandeze din oțel prin extrudare indirectă la rece”*  
Autoritatea Contractantă: *Agenția Managerială de Cercetare Științifică, Inovare și Transfer Tehnologic - POLITEHNICA*  
Contractor: Universitatea Tehnică „Gh. Asachi” din Iași  
Director de proiect: Bejinariu Costică, membru: **Minea Alina Adriana**  
Valoarea proiectului: 1 030 000 lei (RON)

12. Contract de finanțare pentru executie proiecte nr. 1123 / 12.01.2001  
*Programul RELANSIN’*  
Categoriza de proiect: TM  
Denumirea proiectului: *Realizarea unei tehnologii complexe de tratament termic criogenic și/sau termomecanic a corpurilor de rulmenți în scopul creșterii fiabilității rulmenților*  
Contractor: Universitatea Tehnică „Gh. Asachi” din Iași  
Director de proiect: Susan Mihai, membru: **Minea Alina Adriana**

13. Contract de finanțare pentru executie proiecte nr. 905 / 19.09.2000  
*Programul RELANSIN’*  
Categoriza de proiect: TM  
Denumirea proiectului: *Tehnologii moderne, de mare eficiență economică, pentru obținerea țevilor cu pereți subțiri și a cablurilor cu izolație minerală pentru termocupluri în tub metalic, din oțeluri inoxidabile, prin tragere în câmp ultrasonor*  
Contractor: Universitatea Tehnică „Gh. Asachi” din Iași  
Director de proiect: Dima Adrian, membru: **Minea Alina Adriana**  
Valoarea proiectului: 85 000 lei (RON)

14. Contract de finanțare pentru execuție proiecte nr. 1274/1996, act adițional nr. 433 din 11.06.1999  
*Programul: ORIZONT 2000 / 11.1.2 – Tehnici, tehnologii convenționale și neconvenționale în procese industriale*

Tema B1 : *Cercetări privind obținerea tevelor cu pereți subțiri prin tragere la rece, cu activarea ultraacustică a țijeii port-dop și posibilitatea implementării noii tehnologii în industria tevelor*

Faza unică 1999 : Stadiul actual, fundamentare teoretică și elemente de proiectare tehnologică

Finanțare: MCT / ANSTI – 1999

Contractor: Universitatea Tehnică "Gheorghe Asachi" din Iași

Director de proiect : Dima Adrian, membru: **Minea Alina Adriana**

Valoare fază unică 1999 : 4000 lei (RON)

#### **6. Proiecte internaționale, ca Responsabil partener (*International research grants*): 8**

1. Coordonator partea română pentru programul Erasmus IP cu Portugalia, Spania și Polonia (nr 2013-1-PT1-ERA10-16665).
2. Energy Efficiency in Buildings in Russia and Armenia – MARUEEB: 2015, Erasmus KA2\_ Horizon 2020
3. Overcoming Barriers to Nanofluids Market Uptake (NANO-UPTAKE), membru în Management Committee și Dissemination Manager: 2016, COST\_ Horizon 2020
4. Membru rețea de cercetare Research Network GreTInMat: Horizon 2020, BG05M2OP001-2.009-0015, coordonator: UCTM, Sofia, Bulgaria
5. Membru în 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
6. CA18234 - Computational materials sciences for efficient water splitting with nanocrystals from abundant elements - Membru în Management Committee: 2019, COST\_ Horizon 2020
7. CA18202 -Network for Equilibria and Chemical Thermodynamics Advanced Research - Membru în Management Committee: 2019, COST\_ Horizon 2020
8. CIG-15119: Nanofluids for convective heat transfer devices, COST\_ Horizon 2020, April 2020- April 2021: membru în Management Committee și Dissemination Manager

12.09.2020

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