

## COMPLETE LIST OF PUBLICATIONS

- professor habil.pH D MINEA ALINA ADRIANA -

### 1. books or book chapters: 31

1. **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
2. **A. A. Minea**, *Echipamente si instalatii de incalzire* -356 pag. (30rd/pag), Ed. Pim, Iasi, ISBN 978-606-13-4010-1, 2017
3. **A.A. Minea**, **Advances in Heat Transfer Fluids: from Numerical to Experimental Techniques** (532 pag) Ed. A. A. Minea, CRC press Taylor & Francis, ISBN 9781498751858 - CAT# K27275, 2017.
4. **A. A. Minea**, *Transfer de căldură și masă- aplicații și probleme* -115 pag. (28rd/pag), Ed. Pim, Iasi, ISBN 978-606-13-2619-8, 2015
5. **A.A. Minea**, *Productivity and Technology: Techniques Related to Industrial Energy Savings (ch.9)*, in Human Work productivity – a global perspective,(253 pag) Ed. S. Kumar, A. Mital, A. Pennathur, CRC press Taylor & Francis, pp 192-214, ISBN: 9781439899076, 2013
6. **A.A. Minea**, *Introduction to industrial heat transfer (ch.1)*, in **Advances in industrial heat transfer**,(421 pag) Ed. A. A. Minea, CRC press Taylor & Francis, pp 1-46, ISBN: 9781439899076, 2012
7. **A.A. Minea**, *Heat transfer enhancement in process heating (ch. 7)*, in **Advances in industrial heat transfer**,(421 pag) Ed. A. A. Minea, CRC press Taylor & Francis, pp 229-268, ISBN: 9781439899076, 2012
8. I. Varcolacu, V. Mirea, B. Florea, **A. A. Minea**, Instalatii, utilaje si echipamente metalurgice (cap. 6) ), in **TRATAT DE STIINTA SI INGINERIA MATERIALELOR METALICE** , **Editori:** Rami SERBAN, Mihai COJOCARU, Editura AGIR, pp 632-939, ISBN: 978-973-720-391-5, 2012
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10. A. Dima, S. Dimitriu **A. A. Minea**, C. Trante, Utilaje, instalatii si automatizari pentru tratamente termice (cap. 1.8), in **TRATAT DE STIINTA SI INGINERIA MATERIALELOR METALICE** , **Editori:** Rami SERBAN, Mihai COJOCARU, Editura AGIR, pp145-205, ISBN: 978-973-720-391-5, 2012
11. A. Nicolae, B. Stroe, I. Bors, I. A. Mauthner, A. Semenescu, **A. A. Minea**, *Ecosociologie metalurgica* -141 pag. (43rd/pag), Ed. Matrix Rom București, ISBN 978-973-755-823-7, 2012
12. **A. A. Minea**, **D. G. Galusca**, Heat Treatment: Theory, Techniques and Applications, chapter AlCu<sub>2</sub>5Mg Alluminum Alloy Heat Treatment: Theory, Techniques and Applications, Nova Publishers, ISBN: 978-1-61728-348-2, pg. 107 - 139, 2010
13. **D. G. Galusca**, **A. A. Minea**, Heat Treatment: Theory, Techniques and Applications, chapter Quenching under Fog Conditions: Theory, Technique and Application on Rolling Mills, Nova Publishers, ISBN: 978-1-61728-348-2, pg. 79 -106, 2010
14. **A. A. Minea**, *Tehnici de simulare a proceselor termogazodinamice* -277 pag. (47rd/pag), Ed. Matrix Rom București, ISBN 978-973-755-603-5, 2010
15. **A. A. Minea**, *Transfer de căldură și masă- notițe de curs și aplicații* -262 pag. (28rd/pag), Ed. Pim, Iasi, ISBN 606-520-835-3, 2010
16. **A. A. Minea** *Engineering heat and mass transfer*, 210 pag, (42 rd/pag) Ed. Praise Worthy Praise, Italy, ISBN 978-88-96329-01-6, 2009
17. **A. A. Minea** *Techniques for studying heat and mass transfer enhancement*, 243 pag, (29rd/pag) Ed. VDM Publishing House, Germany, ISBN 978-3—639-17191-4, 2009
18. **A. A. Minea**, *Tehnici de studiu a intensificării proceselor de transfer de căldură și masă* -229 pag. (32rd/pag), Ed. Politehniun, Iasi, ISBN 978-973-621-213-0, 2008
19. **A. A. Minea**, *Cuptoare si instalatii de incalzire, Indrumar de proiectare*-98 pag.(28rd/pag) , Ed. Cerami, Iasi, ISBN 978-973-667-219-4, 2007
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## 2. Articles in journals: 124

1. 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
2. Moldoveanu, G.M., **Minea, A.A.**, Humenic, G., Humenic, A., Al<sub>2</sub>O<sub>3</sub>/TiO<sub>2</sub> hybrid nanofluids thermal conductivity: an experimental approach, *Journal of Thermal Analysis and Calorimetry*, DOI : 10.1007/s10973-018-7974-4, 2018
3. **A. A. Minea**, M. G. Moldoveanu, Overview of Hybrid Nanofluids Development and Benefits, *Journal of Engineering Thermophysics*, 27 (2018) 27 507–514
4. **A. A. Minea**, P. Estelle, Numerical study on CNT nanofluids behavior in laminar pipe flow, *Journal of Molecular Liquids*, 271 (2018) 281-289
5. 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
6. Moldoveanu, G.M., Humenic, G., **Minea, A.A.**, Humenic, A., Experimental study on thermal conductivity of stabilized Al<sub>2</sub>O<sub>3</sub> and SiO<sub>2</sub> nanofluids and their hybrid, *International Journal of Heat and Mass Transfer*, 127 (2018) 450-457
7. **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
8. 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
9. G.M. Moldoveanu, C Ibanescu, M. Danu, **A.A. Minea**, Viscosity estimation of Al<sub>2</sub>O<sub>3</sub>, SiO<sub>2</sub> nanofluids and their hybrid: An experimental study, *Journal of Molecular Liquids*, 253 (2018) 188-196
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. GM Moldoveanu, **AA Minea**, M Iacob, C Ibanescu, M Danu, Experimental study on viscosity of stabilized Al<sub>2</sub>O<sub>3</sub>, TiO<sub>2</sub> nanofluids and their hybrid, *Thermochimica Acta*, 659 (2018) 203–212

12. S. Akilu , A. T. Baheta , M. A. M.Said , **A.A. Minea** , K.V. Sharma, Properties of glycerol and ethylene glycol mixture based SiO<sub>2</sub>-CuO/C hybrid nanofluid for enhanced solar energy transport, *Solar Energy Materials and Solar Cells*, 179 (2018) 118-128
13. S. Akilu, A. T. Baheta, **A. A. Minea**, K.V. Sharma, Rheology and thermal conductivity of non-porous silica (SiO<sub>2</sub>) in viscous glycerol and ethylene glycol based nanofluids, *International Communications in Heat And Mass Transfer*, 88 (2017) 245-253
14. **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
15. **A.A. Minea**, M. G. Moldoveanu, O. Dodun, Thermal Conductivity Enhancement by Adding Nanoparticles to Ionic Liquids, *Precision Machining IX*, Edited by: Angelos P. Markopoulos and George Christopher Vosniakos, Solid State Phenomena (Volume 261),Pages: 121-126, DOI: 10.4028/www.scientific.net/SSP.261.121, 2017
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17. **A.A. Minea**, M.G. Moldoveanu, STUDIES ON Al<sub>2</sub>O<sub>3</sub>, CuO AND TiO<sub>2</sub> WATER BASED NANOFLUIDS: A COMPARATIVE APPROACH IN LAMINAR AND TURBULENT FLOW, *Journal of engineering thermophysics*, 26 (2017), 291-301.
18. **A.A. Minea**, Challenges in hybrid nanofluids behavior in turbulent flow: Recent research and numerical comparison, *Renewable and Sustainable Energy Reviews*, 71 (2017) 426–434
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20. **A.A Minea**, Advances in heating equipment: saving energy by numerical and analytical heat transfer enhancement techniques, *Journal of Chemical Technology and Metallurgy*, 52 (2017) 277-287
21. M.G. Moldoveanu, T.M. Simionescu, **A.A. Minea** and A. Dima, Analytical Technique for Estimating the Thermophysical Properties of Hybrid Nanofluids, *Advanced Materials Research*, ISSN: 1662-8985, doi:10.4028/www.scientific.net/AMR.1143.207 Vol. 1143, 207-214, 2017
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26. B Buonomo, D Ercole, O Manca, **AA Minea**, A numerical investigation on laminar forced convection with nanofluid in heated flat tubes, 26th International Symposium on Transport Phenomena (ISTP-26), 1-8, 2015
27. M.G. Moldoveanu, **A.A. Minea**, Studies on few water based nanofluids behavior at heating, *Advanced Materials Research*, Vol. 1128, pp 384-389, 2015
28. T. M. Simionescu, **A.A. Minea**, Theoretical considerations on nanocomposites thermal conductivity uncertainties, *Advanced Materials Research*, Vol. 1128, pp 171-177, 2015
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