

COMPLETE LIST OF PUBLICATIONS

- professor habil.pH D MINEA ALINA ADRIANA -

1. books or book chapters: 30

1. **A.A. Minea**, *Advances in Heat Transfer Fluids: from Numerical to Experimental Techniques* (532 pag) Ed. A. A. Minea, CRC press Taylor & Francis, 532 pg, ISBN 9781498751858 - CAT# K27275, 2017, in print
2. **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
3. **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
4. **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
5. **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
6. 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
7. **A.A. Minea**, *Rolul tehnicii, tehnologiei si ingineriei in dezvoltarea ecosociala (cap. 7.2)*, in **TRATAT DE STIINTA SI INGINERIA MATERIALELOR METALICE**, Editori: Rami SERBAN, Mihai COJOCARU, Editura AGIR, pp. 963-972, ISBN: 978-973-720-391-5, 2012
8. 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, pp 145-205, ISBN: 978-973-720-391-5, 2012
9. 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
10. **A. A. Minea**, **D. G. Galusca**, *Heat Treatment: Theory, Techniques and Applications*, chapter AlCu₂5Mg Aluminum Alloy Heat Treatment: Theory, Techniques and Applications, Nova Publishers, ISBN: 978-1-61728-348-2, pg. 107 - 139, 2010
11. **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
12. **A. A. Minea**, *Tehnici de simulare a proceselor termogazodinamice* -277 pag. (47rd/pag), Ed. Matrix Rom București, ISBN 978-973-755-603-5, 2010
13. **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
14. **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
15. **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
16. **A. A. Minea**, *Tehnici de studiu a intensificării proceselor de transfer de căldură și masă* -229 pag. (32rd/pag), Ed. Politehnicum, Iasi, ISBN 978-973-621-213-0, 2008
17. **A. A. Minea**, *Cuptoare si instalatii de incalzire, Indrumar de proiectare*-98 pag.(28rd/pag), Ed. Cermi, Iasi, ISBN 978-973-667-219-4, 2007
18. **A. A. Minea**, *Transfer de caldura si masa*-104 pg.(31rd/pag), Ed. Cermi, Iasi, ISBN 978-973-667-220-0, 2007
19. **A. A. Minea**, *Transfer de masa si energie. Aplicatii in stiinta si ingineria materialelor* - 154 pag.(30rd/pag), Ed. Tehnopres, Iasi, ISBN 973-8048-21-4, 2006
20. **A. A. Minea**, *Aliaje de aluminiu. Tratamente termice si echipamente de incalzire specifice* – 263 pag(28rd/pag), Ed. Cermi, Iasi, ISBN (10) 973-667-205-0, 2006

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25. Gh. Badarau, **A. A. Minea** , M. Stefan, *Proprietatile materialelor metalice - 269 pag.* (38rd/pag), Ed. “Gh. Asachi”, Iasi, 973-621-018-9, 2003
26. A. Florescu, I. Malureanu, R. Comaneci, R. Danila, V. Moldovan, C. Bejinariu, O. Calancia, D. Gheorghiu, **A. A. Minea**, *Stiinta si tehnologia materialelor - indrumar pentru lucrari de laborator–155pag.*(37rd/pag), Rotaprint, Iasi, 2000
27. **A. A. Minea**, O. Minea, *Metode de protectie si tratamente termice - 263 pag.* (29 rd/pag), Ed. Cermi, Iasi, ISBN 973-9378-82-x, 1999
28. R. Danila, A. Florescu, **A. A. Minea**, O. Calancia, *Prelucrarea mecanica a semifabricatelor turnate – 150 pag.* (42 rd/pag), Ed. Cermi, Iasi, ISBN 973-98371-0-7, 1997
29. A. Dima, R. Popescu, P. Vizureanu, **A. A. Minea**, *Cuptoare si instalatii de incalzire, vol. 2 – Elemente de proiectare asistata de calculator a cuptoarelor cu combustie – 184 pag.*(29rd/pag), Ed. Sedcom Libris, Iasi, ISBN 973-9818714, 1997
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2. Articles in journals: 117

1. **A.A. Minea**, M.G. Moldoveanu, STUDIES ON Al₂O₃, CuO AND TiO₂ WATER BASED NANOFLUIDS: A COMPARATIVE APPROACH IN LAMINAR AND TURBULENT FLOW, Journal of engineering thermophysics, 2017, in print
2. **A.A. Minea**, Challenges in hybrid nanofluids behavior in turbulent flow: Recent research and numerical comparison, Renewable and Sustainable Energy Reviews, DOI: 10.1016/j.rser.2016.12.072, 71 (2017) 426–434
3. **AA Minea**, O Manca, Field-synergy and Figure of Merit Analysis of Two Oxide Water Based Nanofluid Flow in Heated Tubes, Heat Transfer Engineering, DOI:10.1080/01457632.2016.1212569, Vol. 38, No. 10, 909-918, 2017.
4. **A.A Minea**, Advances in heating equipment: saving energy by numerical and analytical heat transfer enhancement techniques, Journal of Chemical Technology and Metallurgy, 52, 2, 277-287, 2017
5. 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
6. **A.A. Minea**, Advances in heating equipment: saving energy by numerical and analytical heat transfer enhancement techniques, Journal of Chemical Technology and Metallurgy, 52, 2, 11-21, 2017
7. **A. A. Minea**, Hybrid nanofluids based on Al₂O₃, TiO₂ and SiO₂: numerical evaluation of different approaches, *International Journal Of Heat And Mass Transfer*, 104 (2017) 852–860, 2017
8. **A A Minea**, A Review on the Thermophysical Properties of Water-Based Nanofluids and their Hybrids, THE ANNALS OF “DUNAREA DE JOS” UNIVERSITY OF GALATI, Fascicle IX, METALLURGY AND MATERIALS SCIENCE, March 2016, no. 1, ISSN 1453-083X, pp. 35-46, 2016
9. **A. A. Minea**, A study on Brinkman number variation on water based nanofluid heat transfer in partially heated tubes, *Mechanics Research Communications*, DOI: 10.1016/j.mechrescom.2016.01.013, 2016
10. **A. A. Minea**, Comparative study of turbulent heat transfer of nanofluids: effect of thermophysical properties on figure of merit ratio, *Journal of Thermal Analysis and Calorimetry*, DOI: 10.1007/s10973-015-5166-z, 2015
11. M.G. Moldoveanu, **A.A. Minea**, Studies on few water based nanofluids behavior at heating, *Advanced Materials Research*, Vol. 1128, pp 384-389, 2015
12. T. M. Simionescu, **A.A. Minea**, Theoretical considerations on nanocomposites thermal conductivity uncertainties, *Advanced Materials Research*, Vol. 1128, pp 171-177, 2015

13. M.G. Moldoveanu, **A.A. Minea**, A Study on Uncertainties in Estimations of Thermal Conductivity of Alumina Nanofluids, *Applied Mechanics and Materials*, Vol. 809-810 pp 525-530, 2015
14. T.M. Simionescu, **A.A. Minea**, A Study on Nanocomposites Behaviour at Heating, *Applied Mechanics and Materials* Vol. 809-810 pp 519-524, 2015
15. **A. A. Minea**, Numerical studies on heat transfer enhancement and synergy analysis on few metal oxide water based nanofluids, *International Journal Of Heat And Mass Transfer*, DOI: <http://dx.doi.org/10.1016/j.ijheatmasstransfer.2015.06.039>, vol. 89, pp.1207-1215, 2015
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. **A. A. Minea**, Numerical studies on heat transfer enhancement in different closed enclosures heated symmetrically, *Journal of Thermal Analysis and Calorimetry*, DOI: 10.1007/s10973-015-4607-z, 121 (2): 711-720, 2015
18. **A. A. Minea**, Numerical Simulation of Nanoparticles Concentration Effect on Forced Convection in a Tube with Nanofluids, *Heat Transfer Engineering*, DOI: 10.1080/01457632.2015.987628, 36(13):1144–1153, 2015
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20. **A. A. Minea**, A review on analytical techniques for natural convection investigation in a heated closed enclosure: case study, *Thermal Science*, on-line first, doi:10.2298/TSCI131027021M, 2014
21. 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.
22. **A. A. Minea**, Uncertainties in modeling thermal conductivity of laminar forced convection heat transfer with water alumina nanofluids, *International Journal Of Heat And Mass Transfer*, DOI: 10.1016/j.ijheatmasstransfer.2013.09.018, vol. 68, pp.78-84, 2014
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28. **A.A. Minea**, A numerical study of alumina-water nanofluid for different Reynolds numbers, *Metallurgia International*, 18(4), pp: 18-21, 2013
29. **A.A. Minea**, A comparison study on experimental heat transfer enhancement on different furnaces enclosures, *Heat and Mass Transfer*, 48(11), pp. 1837–1845, DOI: 10.1007/s00231-012-1035-5, ISSN 0947-7411, 2012
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31. G. Di Lorenzo, O. Manca, **A. A. Minea**, D. Ricci, Laminar Confined Impinging Slot Jets with Nanofluids on Isothermal Surfaces, *International Review of Mechanical Engineering* , IREME, Praise Worthy Publishing, vol. 6, no. 2, ISSN 1970 – 8734, pp.173-180, 2012
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35. **Minea**, PNB Reis: Simulation of flow and mass transfer in a fluidized bed having different fluidization rates with syamlal-o'brien model, *Metalurgia* vol 63, no.5, ISSN 0461-9579, pp.5-11, 2011: http://www.metalurgia.ro/Sumar_Metalurgia_5_2011.pdf
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51. **A A Minea**, Studies on Mach number variation on a modified heated enclosure, *Metalurgia International* vol XV, no.5, ISSN 1582-2214, pp. 38-44, 2010
52. **A A Minea**, Simulation of Heat Transfer Processes in an Unconventional Furnace, *Journal of Engineering Thermophysics*, Vol. 19, No. 1, Pleiades Publishing, ISSN 1810-2328, DOI: 10.1134/S1810232810010017, pp. 31-38, 2010
53. **A A Minea**, A study on decreasing global energy consumptions: solar energy, *Metalurgia International* vol XV, no.2, ISSN 1582-2214, pp. 75-80, 2010
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