

**Author: Associate Professor Gabriela HUMINIC**

**Title: The application of the nanofluids to heat exchangers**

**Domain: Mechanical Engineering**

## PUBLICATIONS LIST

### RELEVANT PAPERS

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1. Dumitrache F., Morjan I., Fleaca C., Badoi A., Manda G., Pop S., Marta D.S., **Huminic G.**, Huminic A., Vekas L., Daia C., Marinica O., Luculescu C., Niculescu A.M., „Highly magnetic Fe<sub>2</sub>O<sub>3</sub>nanoparticles synthesized by laser pyrolysis used for biological and heat transfer applications”, Applied Surface Science 336 (2015) 297–303, ISSN: 01694332, doi: 10.1016/j.apsusc.2014.12.098, **Factor de impact 2.538**
2. **Huminic G.**, Huminic A., "Numerical study on heat transfer characteristics of thermosyphon heat pipes using nanofluids", Energy Conversion and Management, Volume 76, 2013, pp. 393-399, ISSN: 01968904, doi: 10.1016/j.enconman.2013.07.026, **Factor de impact 3.590**
3. **Huminic G.**, Huminic A., "Numerical analysis of laminar flow heat transfer of nanofluids in a flattened tube", International Communications in Heat and Mass Transfer, Vol. 44, pp. 52-57, 2013, ISSN: 07351933, 2013, doi: 10.1016/j.icheatmasstransfer.2013.03.003, **Factor de impact 2.124.**  
*Articol inclus în Top 25 Hottest Articles, Science Direct, Engineering, International Communications in Heat and Mass Transfer, January to March 2013*
4. Huminic A., **Huminic G.**, Soica A., "Study of aerodynamics for a simplified car model with the underbody shaped as a Venturi nozzle", International Journal of Vehicle Design, Volume 58, Issue 1, pp. 15-32, ISSN: 0143-3369, 2012, DOI: 10.1504/IJVD.2012.045927, **Factor de impact 0.239.**
5. **Huminic G.**, Huminic A., "Application of nanofluids in heat exchangers: A review", Renewable and Sustainable Energy Reviews, Volume 16, Issue 8, pp. 5625-5638, 2012, ISSN: 136403212, doi: 10.1016/j.rser.2012.05.023, **Factor de impact 5.510.**
6. **Huminic G.**, Huminic A., "Heat transfer characteristics in double tube helical heat exchangers using nanofluids", International Journal of Heat and Mass Transfer, Volume 54, Issue 19-20, pp. 4280-4287, ISSN: 00179310, doi: 10.1016/j.ijheatmasstransfer.2011.05.017, **Factor de impact 2.522.**  
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7. **Huminic G.**, Huminic A., "Heat transfer characteristics of a two-phase closed thermosyphons using nanofluids", *Experimental Thermal and Fluid Science*, Volume 35, Issue 3, 2011, pp. 550–557, doi: 10.1016/j.expthermflusci.2010.12.009, **Factor de impact 2.080.**

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8. **Huminic G.**, Huminic A., I. Morjan I., F. Dumitrache F., "Experimental study of the thermal performance of thermosyphon heat pipe using iron oxide nanoparticles", *International Journal of Heat and Mass Transfer*, Volume 54, Issue 1-3, 2011, pp. 656–661, ISSN: 00179310, doi: 10.1016/j.ijheatmasstransfer.2010.09.005, **Factor de impact 2.522.**

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9. **Huminic G.**, Huminic A., "Entropy analysis of isobar - isothermal processes, *Revista de Chimie*", Volume 60(5), 2009, pg. 518-523, **Factor de impact 0.677.**
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1. „Contributions to the entropy analysis of the structure transformations”, Transilvania University of Braşov, coordinator: Prof. Em. Dr. ing. Victor HOFFMANN, 193 pg., 2005. Domain: Mechanical Engineering

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16. **Huminic G.**, Huminic A., "New Synergy Analysis of Alternative Refrigerants Used in Refrigerating Transport", International Journal of Low Carbon Technologies, Volume 3, Issue 1, January 2008, Pages 12-23, doi: 10.1093/ijlct/3.1.12.

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