



**Universitatea TRANSILVANIA din Braşov**

**Facultatea de Inginerie Mecanică**

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## **FIŞA PENTRU VERIFICAREA STANDARDELOR MINIMALE**

*domeniul fundamental "Ştiinţe ingineresti"*

*comisia de specialitate "Inginerie mecanică, mecatronică şi robotică"*

Îndeplinirea indicatorilor specifici de evaluare

Conf. dr. habil. ing. Gabriela HUMINIC

<b>Criteriul CDI, minim 10</b> – Activitatea de cercetare, dezvoltare tehnologică şi inovare	<b>606.514</b>	<b>Criteriul DID, minim 10</b> – Activitatea didactică şi profesională	<b>18.34</b>	<b>Criteriul RIA, minim 10</b> – Recunoaşterea şi impactul activităţii	<b>33.12</b>
Contribuţie principală, minim 6	605.514	Contribuţie principală, minim 6	13.34	Contribuţie principală, minim 6	31.182
Contribuţie complementară	1.00	Contribuţie complementară	5.00	Contribuţie complementară	1.938
Indicator	Punctaj	Indicator	Punctaj	Indicator	Punctaj
<b>TOTAL</b>	<b>657.974</b>				

### **Criteriul CDI**

**Activitate de cercetare ştiinţifică, dezvoltare tehnologică şi inovare**

#### **Contribuţie principală**

Articole ştiinţifice publicate în reviste de specialitate cotate ISI (CDI-ART)

$1 \text{ articol} = FI * \text{articol} + \sum FI * \text{citare}; FI^* = 0.1 + \text{Factor de impact (martie 2016)}$

Nr. crt.	Referinţa bibliografică (ISI / Scopus)	FI articol	FI* articol		Puncte /articol
21.	Huminic G., Huminic A., Dumitrache F., Fleaca C., Morjan I., "Experimental study of thermo-physical properties of nanofluids based on $\gamma\text{-Fe}_2\text{O}_3$ nanoparticles for heat transfer applications", Heat Transfer Engineering 38(17) 2017, ISSN: 0145-7632	1.016	1.116		<b>1.116</b>

20.	Huminić G., Huminić A., “Heat transfer and flow characteristics of conventional fluids and nanofluids in curved tubes: A review”, Renewable and Sustainable Energy Reviews 58 (2016) 1327–1347, ISSN: 1364-0321, doi:10.1016/j.rser.2015.12.230	6.798	6.898		6.898
19.	Huminić G., Huminić A., “Heat transfer and entropy generation analyses of nanofluids in helically coiled tube-in-tube heat exchangers”, Int. Comm. Heat Mass Transfer 71 (2016) 118–125, ISSN: 0735-1933, doi:10.1016/j.icheatmasstransfer.2015.12.031	2.559	2.659		9.982
Citări (Web of Science / Scopus)		$FI_{citare}$	$FI^*_{citare}$	$\Sigma FI^*_{citare}$	
19.1	Meisam Asadi, Amin Asadi, Dynamic viscosity of MWCNT/ZnO engine oil hybrid nanofluid: An experimental investigation and new correlation in different temperatures and solid concentrations, International Communications in Heat and Mass Transfer 76 (2016) 41-45, ISSN: 0735-1933, doi: 10.1016/j.icheatmasstransfer.2016.05.019	2.782	2.882	7.323	
19.2	Mehran Hashemian, Samad Jafarmadar, Hamed Sadighi Dizaji, A comprehensive numerical study on multi-criteria design analyses in a novel form (conical) of double pipe heat exchanger, Applied Thermal Engineering 102 (2016) 1228–1237, ISSN: 1359-4311, doi:10.1016/j.applthermaleng.2016.04.057	2.739	2.839		
19.3	Li, P., Xie, Y., Zhang, D., Xie, G., Heat transfer enhancement and entropy generation of nanofluids laminar convection in microchannels with flow control devices, Entropy 18(4) (2016) Article number 134, ISSN: 1099-4300, doi: 10.3390/e18040134	1.502	1.602		
18.	Huminić A., Huminić G., Fleacă C., Dumitrache F., Morjan I., “Thermal conductivity, viscosity and surface tension of nanofluids based on FeC nanoparticles”, Powder Technology 284 (2015) 78–84, ISSN: 0032-5910, doi:10.1016/j.powtec.2015.06.040	2.349	2.449		23.994
Citări (Web of Science / Scopus)		$FI_{citare}$	$FI^*_{citare}$	$\Sigma FI^*_{citare}$	
18.1	Raja, M., Vijayan, R., Dineshkumar, P., Venkatesan, M., Review on nanofluids characterization, heat transfer characteristics and applications, Renewable and Sustainable Energy Reviews 64 (2016) 163-173, ISSN: 1364-0321, doi: 10.1016/j.rser.2016.05.079	5.901	6.001	21.545	
18.2	Lan, H., Li, J., Sun, M., (...), Liu, H., Qu, J., Efficient conversion of dimethylarsinate into arsenic and its simultaneous adsorption removal over FeCx/N-doped carbon fiber composite in an electro-Fenton process, Water Research 100 (2016) 57-64, ISSN: 0043-1354, doi: 10.1016/j.watres.2016.05.018	5.528	5.628		
18.3	Yedhu Krishnan, R., Manikandan, S., Suganthi, K.S., Leela Vinodhan, V., Rajan, K.S. , Novel copper - Propylene glycol nanofluid as efficient thermic fluid for potent10.1016/j.energy.2016.04.047ial application in discharge cycle of thermal energy storage, Energy 107 (2016) 482-492, ISSN: 0360-5442, doi: 10.1016/j.energy.2016.04.047	4.844	4.944		
18.4	Dalkilic, A.S., Çebi, A., Celen, A., (...), Surana, K., Wongwises, S., “Prediction of graphite nanofluids' dynamic viscosity by means of artificial neural networks”, International Communications in Heat and Mass Transfer, 73 (2016) 33-42, ISSN: 07351933, doi: 10.1016/j.icheatmasstransfer.2016.02.010	2.782	2.882		

18.5	Sapotoro, A., Kanazawa, Y., Asada, M., Asakuma, Y., Phan, C., "Microwave irradiation based non-chemical method to manipulate surface tension of nanofluids", Experimental Thermal and Fluid Science 72 (2016) 228-234, ISSN: 0894-1777, doi: 10.1016/j.expthermflusci.2015.11.015	1.990	2.090			
17.	<b>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</b>	2.538	2.638		<b>3.397</b>	
Citări (Web of Science / Scopus)		<i>FI citare</i>	<i>FI* citare</i>	$\Sigma FI^*_{citare}$		
17.1	Comănescu, M.V., Mocanu, M.A., Anghelache, L., Marinescu, B., Dumitrache, F., Bădoi, A.-D., Manda, G., "Toxicity of L-DOPA coated iron oxide nanoparticles in intraperitoneal delivery setting – preliminary preclinical study", Romanian Journal of Morphology and Embryology 56 (2) (2015) 691-696, ISSN - 1220-0522.	0.659	0.759	<b>0.759</b>		
16.	<b>Huminic G., Huminic A., "Numerical study on heat transfer characteristics of thermosyphon heat pipes using nanofluids", Energy Conversion and Management, Volume 76, 2013, Pages 393-399, ISSN: 01968904, doi: 10.1016/j.enconman.2013.07.026</b>	3.590	3.690		<b>54.795</b>	
Citări (Web of Science / Scopus)		<i>FI citare</i>	<i>FI* citare</i>	$\Sigma FI^*_{citare}$		
6.1	Anin Vincely, D., Natarajan, E., Experimental investigation of the solar FPC performance using graphene oxide nanofluid under forced circulation, Energy Conversion and Management 117 (2016) 1-11, ISSN: 01968904, doi: 10.1016/j.enconman.2016.03.015	4.380	4.480	<b>51.105</b>		
6.2	El Mghari, H., Louahlia-Gualous, H., Lepinasse, E., Numerical study of nanofluids condensation heat transfer in a square microchannel, Numerical Heat Transfer; Part A: Applications 69 (9) (2016) 957-976, ISSN: 1040-7782, doi: 10.1080/10407782.2015.1109339.	1.975	2.075			
6.3	Ersöz, M.A., Yildiz, A., "Thermoeconomic analysis of thermosyphon heat pipes", Renewable and Sustainable Energy Reviews 58 (2016) 666-673, ISSN: 1364-0321, doi: 10.1016/j.rser.2015.12.250	5.901	6.001			
6.4	Chehade, A., Louahlia-Gualous, H., Le Masson, S., Lépinasse, E., "Experimental investigations and modeling of a loop thermosyphon for cooling with zero electrical consumption", Applied Thermal Engineering 87 (2015) 559-573, ISSN: 13594311, doi: 10.1016/j.applthermaleng.2015.05.041	2.739	2.839			
6.5	Khoshvaght-Aliabadi, M., Hormozi, F., Heat transfer of Cu-water nanofluid in parallel, corrugated, and strip channels, Journal of Thermophysics and Heat Transfer, Volume 29, Issue 4, 2015, Pages 747-756, ISSN: 08878722, doi: 10.2514/1.T4479	0.833	0.933			
6.6	Amiri, A., Sadri, R., Shanbedi, M., et al., "Performance dependence of thermosyphon on the functionalization approaches: An experimental study on thermo-physical properties of graphene nanoplatelet-based water nanofluids", Energy Conversion and Management 92 (2015) 322-330, ISSN: 01968904, doi: 10.1016/j.enconman.2014.12.051	4.380	4.480			
6.7	Avramenko, A.A et al., "Heat transfer at film condensation of	2.383	2.483			

	moving vapor with nanoparticles over a flat surface” International Journal of Heat and Mass Transfer , Volume 82, 2 August 2015, Pages 316-324, ISSN: 00179310, doi: 10.1016/j.ijheatmasstransfer.2014.11.059.				
6.8	Kothandapani, M. and Prakash, J., “Effect of radiation and magnetic field on peristaltic transport of nanofluids through a porous space in a tapered asymmetric channel”, Journal of Magnetism and Magnetic Materials, Volume 378, 15 March 2015, Pages 152-163, ISSN: 03048853, doi: 10.1016/j.jmmm.2014.11.031.	1.970	2.070		
6.9	El Mghari, H., Louahlia-Gualous, H., Lepinasse, E., Numerical study of nanofluid condensation heat transfer in a square microchannel, Numerical Heat Transfer; Part A: Applications 68 (11) (2015) 1242-1265, ISSN: 1040-7782, doi: 10.1080/10407782.2015.1037178	1.975	2.075		
6.10	Avramenko, A.A et al., “Heat transfer at film condensation of stationary vapor with nanoparticles near a vertical plate”, Applied Thermal Engineering , Volume 73, Issue 1, 5 December 2014, Pages 389-396, ISSN: 13594311, doi:10.1016/j.applthermaleng.2014.07.070.	2.624	2.724		
6.11	Shahmohammadi, A., Jafari, A., “Application of different CFD multiphase models to investigate effects of baffles and nanoparticles on heat transfer enhancement”, Frontiers of Chemical Science and Engineering ,Volume 8, Issue 3, 15 October 2014, Pages 320-329, ISSN: 20950179, doi: 10.1007/s11705-014-1437-7.		0.1		
6.12	Khoshvaght-Aliabadi, M, “Influence of different design parameters and Al2O3-water nanofluid flow on heat transfer and flow characteristics of sinusoidal-corrugated channels” Energy Conversion and Management , Volume 88, December 2014, Pages 96-105, ISSN: 0196890, doi: 10.1016/j.enconman.2014.08.042	3.590	3.690		
6.13	Aly W.I.A., "Numerical study on turbulent heat transfer and pressure drop of nanofluid in coiled tube-in-tube heat exchangers", Energy Conversion and Management, Volume 79, March 2014, pp. 304-316, ISSN: 01968904, doi: 10.1016/j.enconman.2013.12.031	3.590	3.690		
6.14	Ting T. W., et al., "Effects of streamwise conduction on thermal performance of nanofluid flow in microchannel heat sinks", Energy Conversion and Management, Volume 78, 2014, Pages 14-23, ISSN: 01968904, doi: 10.1016/j.enconman.2013.10.061	3.590	3.690		
6.15	Chehade A.A., et al., "Experimental investigation of thermosyphon loop thermal performance", Energy Conversion and Management Volume 84, August 2014, Pages 671-680, ISSN: 01968904, doi: 10.1016/j.enconman.2014.04.092	3.590	3.690		
6.16	Alawi, O.A., et al., "Fluid flow and heat transfer characteristics of nanofluids in heat pipes: A review", International Communications in Heat and Mass Transfer, Volume 56, August 2014, Pages 50-62, ISSN: 07351933, doi: 10.1016/j.icheatmasstransfer.2014.04.014	2.124	2.224		
6.17	Karami N., Rahimi, M., " Heat transfer enhancement in a PV cell using Boehmite nanofluid", Energy Conversion and Management Volume 86, October 2014, Pages 275-285, ISSN: 01968904, doi: 10.1016/j.enconman.2014.05.037	3.590	3.690		
15.	<b>Huminić G., Huminić A., "Numerical Analysis of Laminar Flow Heat Transfer of Nanofluids in a Flattened Tube",</b>	2.124	2.224		<b>24.443</b>

	<b>International Communications in Heat and Mass Transfer, Volume 44, May 2013, Pages 52-57, ISSN: 07351933 doi: 10.1016/j.icheatmasstransfer.2013.03.003</b>				
Citări (Web of Science / Scopus)		$FI_{citare}$	$FI^*_{citare}$	$\Sigma FI^*_{citare}$	
15.1	Bigdeli, M.B., Fasano, M., Cardellini, A., Chiavazzo, E., Asinari, P., A review on the heat and mass transfer phenomena in nanofluid coolants with special focus on automotive applications, Renewable and Sustainable Energy Reviews 60 (2016) 1615-1633, ISSN: 1364-0321, doi: 10.1016/j.rser.2016.03.027	5.901	6.001	<b>22.219</b>	
15.2	Zhao, N., Yang, J., Li, H., Zhang, Z., Li, S., Numerical investigations of laminar heat transfer and flow performance of Al <sub>2</sub> O <sub>3</sub> -water nanofluids in a flat tube, International Journal of Heat and Mass Transfer 92 (2016) 268-282, ISSN: 0017-9310, doi: 10.1016/j.ijheatmasstransfer.2015.08.098	2.383	2.483		
15.3	Sidik, N.A.C., Yazid, M.N.A.W.M., Mamat, R., A review on the application of nanofluids in vehicle engine cooling system, International Communications in Heat and Mass Transfer 68 (2015) 85-90, ISSN: 0735-1933, doi: 10.1016/j.icheatmasstransfer.2015.08.017	2.782	2.882		
15.4	Islam, M.R., Shabani, B., Rosengarten, G., Andrews, J., The potential of using nanofluids in PEM fuel cell cooling systems: A review, Renewable and Sustainable Energy Reviews, 48 (2015) 523-539, ISSN: 1364-0321, doi: 10.1016/j.rser.2015.04.018	5.901	6.001		
15.5	Naphon, P., Nakharintr, L., Numerical investigation of laminar heat transfer of nanofluid-cooled mini-rectangular fin heat sinks, Journal of Engineering Physics and Thermophysics 88 (3) (2015) 666-675, ISSN: 1062-0125, doi: 10.1007/s10891-015-1235-1.		0.1		
15.6	Buonomo, B., Manca, O., Marinelli, L., Nardini, S., Laminar forced convection in flat tubes with nanofluids for automotive applications, 3rd International Conference on Computational Methods for Thermal Problems, ThermaComp 2014, Pages 125-128, ISBN: 978-887431727-1.		0.1		
15.7	Naphon, P., Nakharintr, L., "Turbulent two phase approach model for the nanofluids heat transfer analysis flowing through the minichannel heat sinks", International Journal of Heat and Mass Transfer, Volume 82, March 2015, Pages 388-395, ISSN: 00179310, doi: 10.1016/j.ijheatmasstransfer.2014.11.024.	2.383	2.483		
15.8	Manikandan, S., Jancirani, J., "Review on heat transfer enhancement of nanofluids - Engine coolant", Advanced Materials Research, Volume 984-985, 2014, Pages 1095-1101, ISSN: 10226680, doi: 10.4028/www.scientific.net/AMR.984-985.1095		0.1		
15.9	Tohidi A., et al., "Laminar Heat Transfer Enhancement Utilizing Nanofluids in a Chaotic Flow", Journal of Heat Transfer, Volume 136, Issue 9, June 2014, Pages 8, ISSN 00221481, doi: 10.1115/1.4027773	1.830	1.930		
14.	<b>Huminic A., Huminic, G., "Numerical Flow Simulation for a Generic Vehicle Body on Wheels with Variable Underbody Diffuser", SAE Technical Paper 2012-01-0172, 2012, doi: 10.4271/2012-01-0172</b>		0.1		<b>0.1</b>
13.	<b>Huminic A., Huminic G., Şoica A., "Study of aerodynamics for a simplified car model with the underbody shaped as a Venturi nozzle", International Journal of Vehicle Design, Volume 58,</b>	0.239	0.339		<b>1.943</b>

	<b>Issue 1, March 2012, Pages 15-32, ISSN: 01433369 doi: 10.1504/IJVD.2012.045927</b>				
Citari (Web of Science / Scopus)		<i>FI citare</i>	<i>FI* citare</i>	$\Sigma FI^*_{citare}$	
13.1	Sudin M.N. et al., " Review of research on vehicles aerodynamic drag reduction methods", International Journal of Mechanical and Mechatronics Engineering, Volume 14, Issue 2, 2014, pp. 35-47, ISSN: 22272771, paper id:145302-6868-IJMME-IJENS	1.504	1.604	<b>1.604</b>	
<b>12.</b>	<b>Huminic G., Huminic A., "The Cooling Performances Evaluation of Nanofluids in a Compact Heat Exchanger", SAE Technical Paper 2012-01-1045, 2012, doi:10.4271/2012-01-1045</b>		0.1		
Citari (Web of Science / Scopus)		<i>FI citare</i>	<i>FI* citare</i>	$\Sigma FI^*_{citare}$	
12.1	Sh.M. Vanaki, P.Ganesan, H.A.Mohammed, Numerical study of convective heat transfer of nanofluids: A review, Renewable and Sustainable Energy Reviews 54(2016) 1212–1239, ISSN: 1364-0321, doi: http://dx.doi.org/10.1016/j.rser.2015.10.042	5.901	6.001	<b>18.973</b>	<b>19.073</b>
12.2	Vikas Kumar, Arun Kumar Tiwari, Subrata Kumar Ghosh, Application of nanofluids in plate heat exchanger: A review, Energy Conversion and Management 105 (2015) 1017–1036, ISSN 0196-8904, doi: http://dx.doi.org/10.1016/j.enconman.2015.08.053	4.380	4.480		
12.3	Sidik, N.A.C., Yazid, M.N.A.W.M., Mamat, R., A review on the application of nanofluids in vehicle engine cooling system, International Communications in Heat and Mass Transfer 68 (2015) 85-90, ISSN: 0735-1933, doi: 10.1016/j.icheatmasstransfer.2015.08.017	2.782	2.882		
12.4	Hussein A.M. et al., "A review of forced convection heat transfer enhancement and hydrodynamic characteristics of a nanofluid", Renewable and Sustainable Energy Reviews, Volume 29, 2014, 734-743, ISSN: 1364-0321, doi: 10.1016/j.rser.2013.08.014	5.510	5.610		
<b>11.</b>	<b>Huminic G., Huminic A., "Application of nanofluids in heat exchangers: A Review", Renewable and Sustainable Energy Reviews, Volume 16, Issue 8, October 2012, Pages 5625-5638 ISSN: 13640321, doi: 10.1016/j.rser.2012.05.023</b>	5.510	5.610		<b>201.606</b>
Citări (Web of Science / Scopus)		<i>FI citare</i>	<i>FI* citare</i>	$\Sigma FI^*_{citare}$	
11.1	Colla, L., Fedele, L., Manca, O., Marinelli, L., Nardini, S., Experimental and Numerical Investigation on Forced Convection in Circular Tubes with Nanofluids, Heat Transfer Engineering 37 (13-14) (2016) 1201-1210, ISSN: 0145-7632, doi: 10.1080/01457632.2015.1112617	0.814	0.914	<b>197.075</b>	
11.2	Devendiran, D.K., Amirtham, V.A., A review on preparation, characterization, properties and applications of nanofluids, Renewable and Sustainable Energy Reviews, 60 (2016) 21-40, ISSN: 1364-0321, doi: 10.1016/j.rser.2016.01.055.	5.901	6.001		
11.3	Khoshvaght-Aliabadi, M., Hormozi, F., Investigation on Heat Transfer and Pressure Drop of Copper-Water Nanofluid Flow in Plain and Perforated Channels, Experimental Heat Transfer 29 (4) (2016) 427-444, ISSN: 0891-6152, doi: 10.1080/08916152.2015.1024350	0.979	1.079		
11.4	Zhao, N., Yang, J., Li, S., Wang, Q., Numerical investigation of laminar thermal-hydraulic performance of Al2O3-water nanofluids in offset strip fins channel, International Communications in Heat and Mass Transfer 75 (2016) 42-51, ISSN: 0735-1933, doi:	2.782	2.882		

	10.1016/j.icheatmasstransfer.2016.03.024				
11.5	Xing, M., Yu, J., Wang, R., Experimental investigation and modelling on the thermal conductivity of CNTs based nanofluids, International Journal of Thermal Sciences 104 (2016) 404-411, ISSN: 12900729, doi: 10.1016/j.ijthermalsci.2016.01.024	2.629	2.729		
11.6	Satti, J.R., Das, D.K., Ray, D.R., Measurements of densities of propylene glycol-based nanofluids and comparison with theory, Journal of Thermal Science and Engineering Applications 8(2) (2016) 021021, ISSN: 1948-5085, doi: 10.1115/1.4032671		0.1		
11.7	Taghizadeh-Tabari, Z., Zeinali Heris, S., Moradi, M., Kahani, M., The study on application of TiO <sub>2</sub> /water nanofluid in plate heat exchanger of milk pasteurization industries, Renewable and Sustainable Energy Reviews, 58 (2016) 1318-1326, ISSN: 1364-0321, doi: 10.1016/j.rser.2015.12.292	5.901	6.001		
11.8	Sasmal, C., Nirmalkar, N., Momentum and heat transfer characteristics from heated spheroids in water based nanofluids, International Journal of Heat and Mass Transfer 96 (2016) 582-601, ISSN: 0017-9310, doi: 10.1016/j.ijheatmasstransfer.2016.01.054	2.383	2.483		
11.9	Faizal, M., Bouazza, A., Singh, R.M. , Heat transfer enhancement of geothermal energy piles, Renewable and Sustainable Energy Reviews 57 (2016) 16-33, ISSN: 13640321, doi: 10.1016/j.rser.2015.12.065	5.901	6.001		
11.10	Azizi, Z., Alamdari, A., Malayeri, M.R. , Thermal performance and friction factor of a cylindrical microchannel heat sink cooled by Cu-water nanofluid, Applied Thermal Engineering 99 (2016) 970-978, ISSN: 1359-4311, doi: 10.1016/j.applthermaleng.2016.01.140	2.739	2.839		
11.11	Sarafraz, M.M., Hormozi, F., Heat transfer, pressure drop and fouling studies of multi-walled carbon nanotube nano-fluids inside a plate heat exchanger, Experimental Thermal and Fluid Science 72 (2016) 1-11, ISSN: 0894-1777, doi: 10.1016/j.expthermflusci.2015.11.004	1.990	2.090		
11.12	Fsadni, A.M., Whitty, J.P.M., A review on the two-phase heat transfer characteristics in helically coiled tube heat exchangers, International Journal of Heat and Mass Transfer 95 (2016) 551-565, ISSN: 0017-9310, doi: 10.1016/j.ijheatmasstransfer.2015.12.034	2.383	2.483		
11.13	Wang, L., Wang, Y., Yan, X., Wang, X., Feng, B., Investigation on viscosity of Fe <sub>3</sub> O <sub>4</sub> nanofluid under magnetic field, International Communications in Heat and Mass Transfer 72 (2016) 23-28, ISSN: 0735-1933, doi: 10.1016/j.icheatmasstransfer.2016.01.013	2.782	2.882		
11.14	Kandasamy, R., Muhaimin, I., Mohammad, R., Single walled carbon nanotubes on MHD unsteady flow over a porous wedge with thermal radiation with variable stream conditions, Alexandria Engineering Journal 55(1) (2016) 275-285, ISSN: 1110-0168, doi: 10.1016/j.aej.2015.10.006		0.1		
11.15	Vanaki, S.M., Ganesan, P., Mohammed, H.A., Numerical study of convective heat transfer of nanofluids: A review, Renewable and Sustainable Energy Reviews 54 (2016) 1212-1239, ISSN: 1364-0321, doi: 10.1016/j.rser.2015.10.042	5.901	6.001		
11.16	Khoshvaght-Aliabadi, M., Rad, S.E.H., Hormozi, F., Al <sub>2</sub> O <sub>3</sub> -water nanofluid inside wavy mini-channel with different cross-sections,	3.000	3.010		

	Journal of the Taiwan Institute of Chemical Engineers 58 (2016) 8-18, ISSN: 1876-1070, doi: 10.1016/j.jtice.2015.05.029				
11.17	Zhao, N., Wen, X., Li, S., An evaluation of the application of nanofluids in intercooled cycle marine gas turbine intercooler, Journal of Engineering for Gas Turbines and Power 138(1) (2016), ISSN: 0742-4795, doi: 10.1115/1.4031170	0.804	0.904		
11.18	Meyer, J.P., Adio, S.A., Sharifpur, M., Nwosu, P.N., The Viscosity of Nanofluids: A Review of the Theoretical, Empirical, and Numerical Models, Heat Transfer Engineering 37 (5) (2016) 387-421 , ISSN: 0145-7632, doi: 10.1080/01457632.2015.1057447	0.814	0.914		
11.19	Turgut, A., Sağlanmak, Ş., Doğanay, S., Experimental investigation on thermal conductivity and viscosity of nanofluids: Particle size effect   [Nanoakışkanların ısı iletkenlik ve viskozitesinin deneysel incelenmesi: Tanecik boyutu etkisi], Journal of the Faculty of Engineering and Architecture of Gazi University 31(1) (2016) 95-103, ISSN: 1300-1884.	0.286	0.386		
11.20	Kumar, V., Tiwari, A.K., Ghosh, S.K., Application of nanofluids in plate heat exchanger: A review, Energy Conversion and Management, 105 (2015) ISSN: 1017-1036, ISSN: 01968904, doi: 10.1016/j.enconman.2015.08.053	4.380	4.480		
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Citări (Web of Science / Scopus)		$FI_{citare}$	$FI^*_{citare}$	$\Sigma FI^*_{citare}$	
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Citări (Web of Science / Scopus)		<i>FI citare</i>	<i>FI* citare</i>	$\Sigma FI^*_{citare}$	
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Citari (Web of Science / Scopus)		<i>FI</i> citare	<i>FI*</i> citare	$\Sigma FI^*$ citare	
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8.28	Promdee, K., et al., "Biomolecular reaction and heat controlled in		0.1		

	the reactor for synthesis of charcoal and bio-oil derived from mixed grass", <i>Advances in Environmental Biology</i> , Volume 8, Issue 14, 2014, Pages 57-62, ISSN: 19950756				
8.29	Chiang, Y.-C., et al., "Experimental study on thermal performances of heat pipes for air-conditioning systems influenced by magnetic nanofluids, external fields, and micro wicks", <i>International Journal of Refrigeration</i> , Volume 43, July 2014, Pages 62-70, ISSN: 01407007, doi: 10.1016/j.ijrefrig.2014.04.007	1.702	1.802		
8.30	Shafahi, M., Anderson, K., Borna, A., (...), Subandi, S., Khansari, P., A review on nanofluid heat pipe, <i>ASME International Mechanical Engineering Congress and Exposition, Proceedings (IMECE) 8B</i> (2014), doi: 10.1115/IMECE2014-39431		0.1		
8.31	Alawi O.A., et al., "Fluid flow and heat transfer characteristics of nanofluids in heat pipes: A review", <i>International Communications in Heat and Mass Transfer</i> , Volume 56, August 2014, Pages 50-62, ISSN 0735-1933, DOI: 10.1016/j.icheatmasstransfer.2014.04.014	2.124	2.224		
8.32	Promdee, K., "Chemical composition of bio-oil obtained from biomass via thermal controlled inside the continuous pyrolysis reactor", <i>Advances in Environmental Biology</i> , Volume 8, Issue 14, 2014, Pages 24-29, ISSN: 19950756		0.1		
8.33	Buschmann M.H., Franzke U., "Improvement of thermosyphon performance by employing nanofluid" <i>International Journal of Refrigeration</i> ", Volume 40, April 2014, Pages 416-428, ISSN: 01407007, DOI: 10.1016/j.ijrefrig.2013.11.022	1.702	1.802		
8.34	Diao, Y., et al., "Experimental investigation of the Cu/R141b nanofluids on the evaporation/boiling heat transfer characteristics for surface with capillary micro-channels", <i>Heat and Mass Transfer</i> , Volume 50, Issue 9, September 2014, Pages 1261-1274, ISSN: 09477411, doi: 10.1007/s00231-014-1325-1.	0.929	1.029		
8.35	Shanbedi M., et al., "Improvement in Heat Transfer of a Two-Phased Closed Thermosyphon Using Silver-Decorated MWCNT/Water", <i>Journal of Dispersion Science and Technology</i> , Volume 35, Issue 8, August 2014, Pages 1086-1096, ISSN 1532-2351, DOI: 10.1080/01932691.2013.833101	0.705	0.805		
8.36	Chaudhari N.E., et al., "Computational fluid dynamics analysis of two-phase thermosyphon", <i>International Journal of Engineering and Technology</i> , Volume 5, Issue 5, 2013, pp, 3794-3800, ISSN: 23198613		0.1		
8.37	Reay, D.A., et al., "Heat Pipes: Theory, Design and Applications: Sixth Edition", November 2013, Pages 1-251, ISBN: 978-008098266-3		0.1		
8.38	Asirvatham L.G., et al., "Operational limitations of heat pipes with silver-water nanofluids", <i>Journal of Heat Transfer</i> , Volume 135, Issue 11, 2013, Article number 111011, ISSN: 00221481, doi: 10.1115/1.4024616	1.830	1.930		
8.39	Gong Y.Y., et al., "Heat transfer enhancement of the heat pipe using SiO <sub>2</sub> -water nanofluid, <i>Advanced Materials Research</i> , Volume 805-806, 2013, Pages 570-573, ISSN: 10226680 doi: 10.4028/www.scientific.net/AMR.805-806.570		0.1		
8.40	Buschmann M.H., "Nanofluids in thermosyphons and heat pipes: Overview of recent experiments and modelling approaches", <i>International Journal of Thermal Sciences</i> , Volume 72, October	2.563	2.663		

	2013, pp. 1-17, ISSN: 12900729, doi: 10.1016/j.ijthermalsci.2013.04.024				
8.41	Promdee K., Vitidsant T., "Bio-oil synthesis by pyrolysis of cogongrass ( <i>Imperata Cylindrica</i> )", Chemistry and Technology of Fuels and Oils, Volume 49, Issue 4, 2013, Pages 287-292, ISSN: 00093092, doi: 10.1007/s10553-013-0443-7	0.141	0.241		
8.42	Zafarani-Moattar M.T., Majdan-Cegincara R., "Stability, rheological, magnetorheological and volumetric characterizations of polymer based magnetic nanofluids", Colloid and Polymer Science, Volume 291, Issue 8, August 2013, Pages 1977-1987, ISSN: 0303402X doi: 10.1007/s00396-013-2936-7	2.410	2.510		
8.43	Kamyar A., et al., "Effects of nanofluids on heat transfer characteristics of a two-phase closed thermosyphon", International Journal of Heat and Mass Transfer, Volume 65, 2013, Pages 610-618, ISSN: 00179310, doi: 10.1016/j.ijheatmasstransfer.2013.06.046	2.522	2.622		
8.44	Brusly-Solomon A., et al., "Thermal performance of anodized two phase closed thermosyphon (TPCT)", Experimental Thermal and Fluid Science, Volume 48, July 2013, Pages 49-57, ISSN: 08941777, doi: 10.1016/j.expthermflusci.2013.02.007	2.080	2.180		
8.45	Asmaie L., et al., "Thermal performance analysis of nanofluids in a thermosyphon heat pipe using CFD modeling", Heat and Mass Transfer/Waerme- und Stoffuebertragung, Volume 49, Issue 5, 2013, pp. 667-678, ISSN: 09477411, doi: 10.1007/s00231-013-1110-6	0.929	1.029		
8.46	Sureshkumar R., et al., "Heat transfer characteristics of nanofluids in heat pipes: A review", Renewable and Sustainable Energy Reviews, Volume 20, 2013, Pages 397-410, ISSN: 13640321, doi: 10.1016/j.rser.2012.11.044	5.510	5.610		
8.47	Chen Y.-J., et al., "Application of water-based SiO <sub>2</sub> functionalized nanofluid in a loop thermosyphon", International Journal of Heat and Mass Transfer, Volume 56, Issue 1-2, 1 January 2013, Pages 59-68, ISSN: 00179310, doi: 10.1016/j.ijheatmasstransfer.2012.09.048	2.522	2.622		
8.48	Shanbedi M., et al., "Prediction of temperature performance of a two-phase closed thermosyphon using Artificial Neural Network", Heat and Mass Transfer 49, Issue 1, January 2013, Pages 65-73, ISSN: 09477411 doi: 10.1007/s00231-012-1066-y	0.929	1.029		
8.49	Liu Z.-H., Li Y.-Y., "A new frontier of nanofluid research – Application of nanofluids in heat pipes", International Journal of Heat and Mass Transfer, Volume 55, Issue 23-24, November 2012, Pages 6786-6797, ISSN: 00179310, doi:10.1016/j.ijheatmasstransfer.2012.06.086	2.522	2.622		
8.50	Yousefi T., et al., "Effect of Al <sub>2</sub> O <sub>3</sub> nanofluids on the thermal performance of a sintered heat pipe", 6th International Conference on Thermal Engineering Theory and Applications, Istanbul, Turkey, 2012, Code 92657, ISBN: 978-192676908-0		0.1		
8.51	Firouzfard E., et al., "Investigation of heat pipe heat exchanger effectiveness and energy saving in air conditioning systems using silver nanofluid", International Journal of Environmental Science and Technology, Volume 9, Issue 4, 2012, Pages 587-594, ISSN:	1.794	1.894		



	17351472, doi: 10.1007/s13762-012-0051-9				
8.52	Zhang L., et al., "An experimental investigation of a natural circulation heat pipe system applied to a parabolic trough solar collector steam generation system", Solar Energy, Volume 86, Issue 3, 2012, Pages 911-919, ISSN: 0038092X, doi: 10.1016/j.solener.2011.11.020	3.541	3.641		
8.53	Shanbedi M., et al., "Investigation of Heat-Transfer Characterization of EDA-MWCNT/DI-Water Nanofluid in a Two-Phase Closed Thermosyphon", Industrial & Engineering Chemistry Research, Volume 51, Issue 3, 25 January 2012, Pages 1423-1428, ISSN: 08885885, doi: 10.1021/ie202110g	2.240	2.340		
7.	<b>Huminic G., Huminic A., "Study on Thermal Performances of the Heat Pipes with Water - Nanoparticles Mixture", SAE Technical Paper 2010-01-0183, 2010, doi:10.4271/2010-01-0183.</b>		0.1		<b>0.2</b>
Citari (Web of Science / Scopus)		$FI_{citare}$	$FI^*_{citare}$	$\Sigma FI^*_{citare}$	
7.1	Hadi Salehi et al., "Effects of a Nanofluid and Magnetic Field on the Thermal Efficiency of a Two-Phase Closed Thermosyphon", Heat Transfer—Asian Research, Volume 42, Issue 7, pages 630–650, 2013, doi: 10.1002/htj.21043		0.1	0.1	
6.	<b>Huminic A., Huminic G., "Computational Study of Flow in the Underbody Diffuser for a Simplified Car Model," SAE Technical Paper 2010-01-0119, 2010, doi:10.4271/2010-01-0119</b>		0.1		<b>3.024</b>
Citări (Web of Science / Scopus)		$FI_{citare}$	$FI^*_{citare}$	$\Sigma FI^*_{citare}$	
6.1	Khaled, M., et al., "Review of underhood aerothermal management: Towards vehicle simplified models", Applied Thermal Engineering, Volume 73, Issue 1, 5 December 2014, Pages 840-856, ISSN: 13594311, doi: 10.1016/j.applthermaleng.2014.08.037.	2.624	2.724	<b>2.924</b>	
6.2	Daryakenari B. et al., "Numerical Study of Multiple Channel Road Vehicle Underbody Diffusers", International Review of Mechanical Engineering, Volume 6 (3), 2012, pp. 583-587.		0.1		
6.3	Ramakrishnan, V., Soundararaju, D., Karbon, K., and Jha, P., "A Numerical Approach to Evaluate the Aerodynamic Performance of Vehicle Exterior Surfaces," SAE Technical Paper 2011-01-0180, 2011, doi:10.4271/2011-01-0180		0.1		
5.	<b>Huminic A. and Huminic G., "CFD Study Concerning the Influence of the Underbody Components on Total Drag for a SUV", SAE Technical Paper 2009-01-1157, 2009, doi:10.4271/2009-01-1157.</b>		0.1		<b>0.560</b>
Citări (Web of Science / Scopus)		$FI_{citare}$	$FI^*_{citare}$	$\Sigma FI^*_{citare}$	
5.1	Jory K. et al., "Computational drag analysis in the under-body for a sedan type car model", International Conference on Energy Efficient Technologies for Sustainability, ICEETS 2013, Article number 6533481, Pages 765-770		0.1	<b>0.460</b>	
5.2	Wang J.-Y et al., "Influence of tail-end styling on aerodynamic characteristics of minibus", Journal of Jilin University (Engineering and Technology Edition), Volume 41, Issue 3, 2011, Pages 618-622	0.260	0.360		
4.	<b>Huminic G., Huminic A., " CFD study of the heat pipes with water-nanoparticles mixture", Proceeding of European Automotive Simulation Conference, EASC 2009, Munich, pp. 217-228,</b>		0.1		<b>0.2</b>
Citări (Web of Science / Scopus)		$FI_{citare}$	$FI^*_{citare}$	$\Sigma FI^*_{citare}$	

4.1	Salehi H., et al., "Effects of a nanofluid and magnetic field on the thermal efficiency of a two-phase closed thermosyphon", Heat Transfer - Asian Research, Volume 42, Issue 7, November 2013, Pages 630-650, ISSN: 10992871, doi: 10.1002/htj.21043		0.1	<b>0.1</b>	
3.	<b>Huminic G., Huminic A., "Entropy analysis of isobar - isothermal processes, Revista de Chimie", Volume 60(5), 2009, pg. 518-523.</b>	0.552	0.652		<b>0.652</b>
2.	<b>Huminic A. and Huminic G., "On the Aerodynamics of the Racing Cars," SAE Technical Paper 2008-01-0099, 2008, doi:10.4271/2008-01-0099.</b>		0.1		<b>0.2</b>
Citări (Web of Science / Scopus)		$FI_{citare}$	$FI^*_{citare}$	$\Sigma FI^*_{citare}$	
2.1	Hetawal, S., et al., "Aerodynamic study of formula SAE car", Procedia Engineering, Volume 97, 2014, Pages 1198-1207, ISSN: 18777058, doi: 10.1016/j.proeng.2014.12.398		0.1	<b>0.1</b>	
1.	<b>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</b>		0.1		<b>0.1</b>

#### Contribuție complementară

Brevete de invenție: 1 brevet de invenție național = 1 punct

Nr. crt.	Denumire brevet	Nr. brevet	Puncte	TOTAL
1.	Huminic G., Huminic A., „Fluid de lucru pentru un tub termic”, Universitatea Transilvania din Brasov.	RO126060/30.09.14.	1.00	<b>1.00</b>

## Criteriul DID

### Activitate didactică și profesională

#### Contribuție principală

Manuale - suport de curs, format tipărit sau electronic (DID-MS): 1 punct = 50 pagini

Nr. crt.	Referința bibliografică	Nr. pagini	Puncte	TOTAL
1.	HUMINIC G., BĂCANU GH., "Termotehnică și mașini termice", Editura Universității din Brașov, ISBN 978-606-19-0753-3, 2016	304	6.08	<b>13.34</b>
2.	HUMINIC G., ȘOVA D., "Engineering Thermodynamics", Editura Universității Transilvania din Brașov, ISBN 978-973-598-546-2, 2009.	161	3.22	
3.	HUMINIC G., "Analiza entropică a proceselor termice", Editura Universității Transilvania din Brașov, ISBN 978-973-598-238-6, 2008.	202	4.04	

#### Contribuție complementară

Standuri/instalații pentru activități didactice realizate (DID-LAB): 1 punct = 1 lucrare de laborator cu infrastructură realizată

Nr. crt.	Stand/instalație	Puncte	TOTAL
4.	Stand pentru determinarea parametrilor termodinamici la starea critică	1	<b>5</b>
5.	Stand pentru testarea tuburilor termice	1	
6.	Stand pentru determinarea proprietăților termice ale lichidelor și solidelor.	1	
7.	Stand pentru determinarea proprietăților fizice ale lichidelor (tensiune superficială, densitate, vâscozitate, unghiul de contact, sedimentare).	1	
8.	Sistem de calcul multiprocesor, 32 processor cores, 128 GB mRAM	1	

## Criteriul RIA

### Recunoaștere și impactul activității

**Contribuție principală:** Director sau responsabil granturi și contracte (RIA-GRA, RIA-CTR)

Proiecte câștigate prin competiție națională în calitate de director (1 punct = 50000 RON)

Nr. crt.	Denumirea	Perioada de derulare	Valoare (lei)	Punctaj
1.	"Aplicarea nanofluidelor la tuburile termice în vederea îmbunătățirii performanțelor sistemelor de răcire", PNII – IDEI, nr. 122/5.10.2011, Universitatea Transilvania din Brașov	2011 2016	1.430.000,0	28.60
2.	" Optimizarea transferului de caldură prin dispozitive bazate pe schimbarea de fază a lichidelor magnetice, PNII – IDEI, nr. 216/1.10.2007 Universitatea Transilvania din Brașov	2007 2010	122.915,5	2.458
3.	" Analiza sinergetică a proceselor de vaporizare, CNCISIS TD, nr. 33369/29.06.2004, Universitatea Transilvania din Brașov	2004	6.200,0	0.124

**Contribuție complementară:** Activitate de cercetare - dezvoltare - inovare în cadrul granturilor/proiectelor

Proiecte câștigate prin competiție națională în calitate de membru în echipă (0.25 puncte = 50000 RON)

Nr. crt.	Denumirea	Perioada de derulare	Valoare (lei)	Punctaj
4.	"Optimizarea structurilor Aerodinamice Deportante de Automobile", contract PNII IDEI - CNCISIS, ID 758/2008, Universitatea Transilvania din Brașov, coordonator dr ing. Angel Huminic	2010 2008	125.340,0	0.627
5.	"Studiul Interacțiunii Aerodinamice Automobil – Cale de Rulare", contract CEEEX-ET CNCISIS, nr. 5885/18.09.2006, Universitatea Transilvania din Brașov, coordonator dr ing. Angel Huminic	2008 2006	120.000,0	0.600
6.	"Analiza CFD a influenței efectului de sol asupra caracteristicilor aerodinamice ale unui automobil de teren" - contract nr. 33.459/17.07.2002, CNCISIS, Universitatea Transilvania din Brașov, coordonator dr ing. Angel Huminic	2003 2002	8.600,0	0.043

Membru în echipă, contract încheiat cu mediu economic international (0.25 puncte = 2000 EURO)

Nr. crt.	Denumirea	Perioada de derulare	Valoare (Euro)	Punctaj
7.	"Increasing the wetting power of a thermal fluid" contract 14533/05.11.2015 - Insitut fur Solartechnik SPF, Elvetia - Universitatea Transilvania Brasov	2015	1500	0.1875

Membru în echipă, contract cu beneficiar din mediul economic național (0.25 puncte = 10000 RON)

Nr. crt.	Denumirea	Perioada de derulare	Valoare (lei)	Punctaj
8.	"Determinarea caracteristicilor funcționale ale turbinelor de vânt Windy 1 și Windy 2", contract 7862/15.06.2010, COTA PFA - Universitatea Transilvania Brasov	2010	1800	0.045
9.	"Determinarea experimentală a parametrilor funcționali ai prototipului unui reductor – regulator de presiune pentru argon", contract 19/31.07.2008, SC CABRIC Brasov - Universitatea Transilvania din Brașov	2008	1500	0.037
10.	„Realizarea instalației experimentale pentru determinarea parametrilor funcționali ai prototipului unui reductor – regulator de presiune pentru argon”, contract nr. 18/31.07.2008, SC CABRIC Brasov, Universitatea Transilvania din Brașov	2008	800	0.020
11.	"Determinarea caracteristicilor funcționale ale turbinei de vânt Smoky", contract nr. 1/09.02.2004 între SC Smoky SRL Hărman, Brașov - Universitatea Transilvania din Brașov	2004	1297	0.032
12.	"Bilanț Termic pentru Cazan CAF 100 Gcal/ora si Bilanț Termic pentru Cazanul de Abur CR 16/1", contract nr. 06/09/2002, SC ROMAN ENERGETIC SA Brașov, Universitatea Transilvania din Brașov	2002	4470	0.112
13.	"Realizarea Bilanțurilor Energetice ale Cazanelor din Centrala de Abur a SC Rulmentul SA, Brașov si Propuneri de Îmbunătățire a Randamentelor Termice în Vederea Optimizărilor Energetice", contract nr. 07/09/2002, SC RULMENTUL SA Brașov, Universitatea Transilvania din Brașov	2002	7000	0.175
14.	"Consultanta si Bilant Energetic, Reducerea Pierderilor de Energie Termica si Propuneri pentru Marirea Randamentului Termic", contract nr. 08/09/2002, SC METROM SA Brașov, Universitatea Transilvania Brasov	2002	2490	0.062

01.08.2016

Director departament:

Prof. dr. habil. ing. Sorin VLASE

Conf. dr. habil. ing. Gabriela HUMINIC