Lista de lucrări
Dr.ing. Irimieș (căs. Giurgiu) Oana

A1 Lista completă de lucrări

1. **Oana GIURGIU**, Angela PLESA, Lavinia SOCACIU, *CFD analysis of flow through brazed plate heat exchanger*, Acta Tehnica Napocensis, series Applied Mathematics, Mechanics, and Engineering, 2018, vol 61, issue IV, p. 571-574, Editura U.T. Press, ISSN 1221-5872, Cluj-Napoca, Romania, CNCSIS category B+, BDI: Index Copernicus, ISI WEB of KNOWLEDGE disponibil la: https://atna-mam.utcluj.ro/index.php/Acta/article/viewFile/1095/1009
2. Alexandru FODOREAN, Adrian CUREU, **Oana GIURGIU**, Dan OPRUTA, *Solutions for increasing the quality of hydro-technical building elements obtained by numerical simulation*, 2018, lucrarea a fost susținuta în cadrul conferinței EENVIRO 9-13 octombrie, 2018, Technical University of Cluj Napoca, in curs de publicare
3. Mihaela SIMION, Lavinia SOCACIU, **Oana GIURGIU**, Silviu Mihai PETRISOR, *The Selection of Industrial Robots For Military Industry Using AHP Method: A Case Study*, Acta Tehnica Napocensis, series Applied Mathematics, Mechanics, and Engineering, 2018, vol 61, issue II, p. 231-240, Editura U.T. Press, ISSN 1221-5872, Cluj-Napoca, Romania, CNCSIS category B+, BDI: Index Copernicus, ISI WEB of KNOWLEDGE disponibil la: https://atna-mam.utcluj.ro/index.php/Acta/article/viewFile/987/920
4. Angela PLESA, **Oana GIURGIU**, Lavinia SOCACIU, *Interdisciplinary experimental stand for determining the characterisics of a reciprocating compressor*, publicata in Proceedings of 2016 International Conference on Hydraulics and Pneumatics – HERVEX 9 -11 Noiembrie, Baile Govora, Romania, ISSN 1454 – 8003, p. 191-194, disponibil la: http://www.fluidas.ro/hervex/proceedings/proceedings2016.pdf
5. **Oana GIURGIU**, Lavinia SOCACIU, Mihaela SIMION, *Applying analytical hierarchy process to select the proper material used in construction of plate heat exchanger with gaskets*, Acta Tehnica Napocensis, series Applied mathematics and mechanics, 2016, vol 59, issue I, p. 67-76, Editura U.T. Press, ISSN 1221-5872, Cluj-Napoca, Romania, CNCSIS category B+, BDI: Index Copernicus, ISI WEB of KNOWLEDGE disponibil la: http://www.atna-mam.utcluj.ro/index.php/Acta/article/view/751.
6. **Oana GIURGIU**, Angela PLESA, Lavinia Gabriela SOCACIU, *Plate heat exchangers – flow analysis trough mini channels*, Energy Procedia, 2016, vol 85c, p.244-251, a fost sustinuta în cadrul conferinței EENVIRO 2015, Technical University of Civil Engineering Bucharest, Faculty of Buildig Services, disponibil la: http://www.sciencedirect.com/science/article/pii/S187661021502901X.
7. Angela PLESA, **Oana GIURGIU**, Daniel BANYAI, *Auto radiators-study regarding air flow along the channels*, *Energy Procedia*, 2016, vol 85c, p.390-398, a fost sustinuta în cadrul conferinței EENVIRO 2015, Technical University of Civil Engineering Bucharest, Faculty of Buildig Services, disponibil la: http://www.sciencedirect.com/science/article/pii/S1876610215029318.
8. Lavinia Gabriela SOCACIU, **Oana GIURGIU**, Daniel BANYAI, Mihaela SIMION, *PCM selection using AHP method to maintain thermal comfort of vehicle occupants*, Energy

Procedia, 2016, vol 85c, p.489-497, a fost sustinuta în cadrul conferinței EENVIRO 2015, Technical University of Civil Engineering Bucharest, Faculty of Buildig Services, disponibil la: http://www.sciencedirect.com/science/article/pii/S1876610215028970.

9. **Oana GIURGIU**, Angela PLEȘA, Dan OPRUȚA *The effect of plate heat exchanger's geometry on heat transfer*, Leonardo Electronic Journal of Practices and Technologies, Issue 25, July-December 2014, p. 254-263 ISSN 1583-1078, indexed BDI: DOAJ, BASE, Index Copernicus, getCited, disponibil la: http://lejpt.academicdirect.org/ A25/254-263.htm, sau http://lejpt.academicdirect.org/A25/254_263.pdf.
10. Lavinia SOCACIU, Angela PLESA, Paula UNGURESAN, **Oana GIURGIU**, *Review on phase change materials for building applications*, Leonardo Electronic Journal of Practices and Technologies, Issue 25, July-December 2014, p. 179-194, ISSN 1583-1078, indexed BDI: DOAJ, BASE, Index Copernicus, getCited, disponibil la: http://lejpt.academicdirect.org/ A25/179_194.htm, sau http://lejpt.academicdirect.org/A25/179_194.pdf.
11. **Oana GIURGIU**, Angela PLESA, Dan OPRUTA *Case study 1: Plate heat exchanger with gasket*, Publicată in Proceedings of 2014 International Salon of Hydraulics, Pneumatics, Tools, Sealing Elements, Fine Mechanics, Specific Electronic Equipment & Mechatronics - HERVEX 5 – 7 November, Călimănești-Căciulata, Romania, ISSN 1454 – 8003, p. 142-147, http://www.fluidas.ro/hervex/proceedings/proceedings2014.pdf
12. **Oana GIURGIU**, Angela PLESA, *CFD study regarding heat transfer enhancement in case of plate heat exchangers*, 2013, publicata in BULETIN ȘTIINȚIFIC, Seria C, Volumul XXIV, Fascicola: Mecanică, Tribologie, Tehnologia Construcțiilor de Mașini, ISSN 1224-3264
13. **Oana GIURGIU IRIMIEȘ** , Florin BODE, Dan OPRUȚA, *Study regarding the influence of the crimping angle on the performances of the heat exchangers*, p. 297-303, 2012, International Conference Experimental Fluid Mechanics, Hradec Kralove, Cehia, disponibil la: http://www.epj-conferences.org/articles/epjconf/abs/2013/06/epjconf_efm2013_01109/_epjconfefm2013_01109.html.
14. **IRIMIEȘ GIURGIU O.**, BODE F., OPRUTA D., *CFD interpretation of flow over a plate heat exchanger*, 13th International Conference AUTOMATION IN PRODUCTION PLANNING AND MANUFACTURING Published by Scientific and Technical Society at the University of Zilina, Zilina, Slovak Republic, 03-05 mai 2012 ISBN 978-80-89276-35-6, p. 60-66
15. **IRIMIEȘ GIURGIU O.**, BODE F., PLEȘA A., *CFD analysis of temperature field on a plate heat exchanger*, Publicata in 13th International Conference AUTOMATION IN PRODUCTION PLANNING AND MANUFACTURING Published by Scientific and Technical Society at the University of Zilina, Zilina, Slovak Republic, 03-05 may 2012 ISBN 978-80-89276-35-6 p. 66-70
16. **GIURGIU O.**, OPRUTA D., BODE F., PISLA A. *Influence of geometrical parameters on the performance of plate heat exchangers with gaskets*, p.92-98, 2012, 3'd International Conference Low Temperature and Waste Heat Use in Communal and Industrial Energy Supply Systems Theory and Practice, Bremen, Germania
17. **GIURGIU O.**, OPRUTA D., PLEȘA A. *Influence of crimping angle on heat transfer for heat exchangers* , p. **426 -429, 2012,** Hervex, Romania, www.hervex.eu
18. **Oana GIURGIU IRIMIEȘ**, Florin BODE, Dan OPRUȚA - *Simulare CFD a curgerii pe o placă ondulată*, Publicata in Proceedings of 2011 International Salon of Hydraulics and Pneumatics - HERVEX 9 – 11 November, Călimănești-Căciulata, Romania, ISSN 1454 - 8003, www.hervex.eu
19. **IRIMIEȘ (GIURGIU) O.**, PLEȘA A. *Heat exchangers plates testing stand*, Publicata in 12th International Conference „Automation in Production Planning and Manufacturing",

Published by Scientific and Technical Society at the University of Zilina, Zilina, Slovak Republic, 03-05 mai 2011, ISBN 978-80-89276-28-8, p. 99-104

20. Tiberiu RUSU, Tiberiu CATUNEANU, **Oana GIURGIU**, Radu VASIU, *Tehnologii inovative de epurare a apelor uzate industrial utilizand filtre ionice pe baza de zeoliti*, publicata in Stiinta si Inginerie, 2009, nr. 16, p. 273-276
21. Emil CONSTANTIN, Tiberiu CĂTUNEANU, **Oana GIURGIU**, Radu VASIU, Francisc GNANDT, *Cercetări fundamentale și aplicative privind realizarea bronzurilor CuNiAl destinate recondiționării elicelor navale*, publicata in Stiinta si Inginerie, 2008, nr. 13, p. 417-420, disponibil la: http://stiintasiinginerie.ro/wp-content/uploads/2014/01/Cuprins-vol-13.pdf

A2 Lista celor 10 lucrări considerate a fi cele mai relevante

1. **Oana GIURGIU**, Angela PLESA, Lavinia SOCACIU, *CFD analysis of flow through brazed plate heat exchanger*, Acta Tehnica Napocensis, series Applied Mathematics, Mechanics, and Engineering, 2018, vol 61, issue IV, p. 571-574, Editura U.T. Press, ISSN 1221-5872, Cluj-Napoca, Romania, CNCSIS category B+, BDI: Index Copernicus, disponibil la: https://atna-mam.utcluj.ro/index.php/Acta/article/viewFile/1095/1009
2. Mihaela SIMION, Lavinia SOCACIU, **Oana GIURGIU**, Silviu Mihai PETRISOR, *The Selection of Industrial Robots For Military Industry Using AHP Method: A Case Study*, Acta Tehnica Napocensis, series Applied Mathematics, Mechanics, and Engineering, 2018, vol 61, issue II, p. 231-240, Editura U.T. Press, ISSN 1221-5872, Cluj-Napoca, Romania, CNCSIS category B+, BDI: Index Copernicus, disponibil la: https://atna-mam.utcluj.ro/index.php/Acta/article/viewFile/987/920
3. **Oana GIURGIU**, Lavinia SOCACIU, Mihaela SIMION, *Applying analytical hierarchy process to select the proper material used in construction of plate heat exchanger with gaskets*, Acta Tehnica Napocensis, series Applied mathematics and mechanics, 2016, vol 59, issue I, p. 67-76, Editura U.T. Press, ISSN 1221-5872, Cluj-Napoca, Romania, CNCSIS category B+, BDI: Index Copernicus, disponibil la: http://www.atna-mam.utcluj.ro/index.php/Acta/article/view/751.
4. **Oana Giurgiu**, Angela Plesa, Lavinia Gabriela Socaciu, *Plate heat exchangers – flow analysis trough mini channels*, Energy Procedia, 2016, vol 85c, p.244-251, a fost sustinuta în cadrul conferinței EENVIRO 2015, Technical University of Civil Engineering Bucharest, Faculty of Buildig Services, disponibil la: http://www.sciencedirect.com/science/article/pii/S187661021502901X.
5. Angela PLESA, **Oana GIURGIU**, Daniel BANYAI, *Auto radiators-study regarding air flow along the channels*, *Energy Procedia*, 2016, vol 85c, p.390-398, a fost sustinuta în cadrul conferinței EENVIRO 2015, Technical University of Civil Engineering Bucharest, Faculty of Buildig Services, disponibil la: http://www.sciencedirect.com/science/article/pii/S1876610215029318.
6. Lavinia Gabriela SOCACIU, **Oana GIURGIU**, Daniel BANYAI, Mihaela SIMION, *PCM selection using AHP method to maintain thermal comfort of vehicle occupants*, Energy Procedia, 2016, vol 85c, p.489-497, a fost sustinuta în cadrul conferinței EENVIRO 2015, Technical University of Civil Engineering Bucharest, Faculty of Buildig Services, disponibil la: http://www.sciencedirect.com/science/article/pii/S1876610215028970.
7. **Oana GIURGIU**, Angela PLEȘA and Dan OPRUȚA *The effect of plate heat exchanger's geometry on heat transfer*, Leonardo Electronic Journal of Practices and Technologies, Issue 25, July-December 2014, p. 254-263 ISSN 1583-1078, indexed BDI: DOAJ, BASE, Index

Copernicus, getCited, disponibil la: http://lejpt.academicdirect.org/ A25/254-263.htm, sau http://lejpt.academicdirect.org/A25/254_263.pdf.

8. Lavinia SOCACIU, Angela PLESA, Paula UNGURESAN, **Oana GIURGIU**, *Review on Phase Change Materials for Building Applications*, Leonardo Electronic Journal of Practices and Technologies, Issue 25, July-December 2014, p. 179-194, ISSN 1583-1078, indexed BDI: DOAJ, BASE, Index Copernicus, getCited, disponibil la: http://lejpt.academicdirect.org/ A25/179_194.htm, sau http://lejpt.academicdirect.org/A25/179_194.pdf.
9. **Oana GIURGIU**, Angela PLESA, Dan OPRUTA, *Case study 1: Plate heat exchanger with gasket*, Publicată in Proceedings of 2014 International Salon of Hydraulics, Pneumatics, Tools, Sealing Elements, Fine Mechanics, Specific Electronic Equipment & Mechatronics - HERVEX 5 – 7 November, Călimănești-Căciulata, Romania, ISSN 1454 – 8003, p. 142-147, http://www.fluidas.ro/hervex/proceedings/proceedings2014.pdf
10. **GIURGIU IRIMIEŞ O.**, BODE, F., OPRUȚA, D., *Study regarding the influence of the crimping angle on the performances of the heat exchangers*, p. 297-303, 2012, International Conference Experimental Fluid Mechanics, Hradec Kralove, Cehia, disponibil la: http://www.epj-conferences.org/articles/epjconf/abs/2013/06/epjconf_efm2013_01109/_epjconfefm2013_01109.html.

B Teza de doctorat

"Cercetări privind studiul curgerii fluidelor prin canalele schimbătoarelor de căldură cu plăci în vederea creșterii performanțelor termodinamice ale acestora", conducător științific: Prof.dr.ing. Dan Opruța, Universitatea Tehnica din Cluj – Napoca, Susținere publică: 17 *ianuarie 2014.*

C Brevete de invenție și alte tipuri de proprietate industrială și intelectuală

-

D Cărți și capitole în cărți

Lavinia Socaciu, Oana Giurgiu – Termotehnică – Lucrări de laborator, Ed. UTPRESS, Cluj-Napoca, ISBN 978-606-737-089-8, 2015

- unic autor
  - Lucrarea 8 Trasarea curbelor caracteristice interioare ale ventilatoarelor centrifugale
  - Lucrarea 9 Determinarea caracteristicilor principale ale pompelor de căldură
  - Lucrarea 14 Bilanțul termic al unui schimbător de căldură tubular cu manta
- coautor
  - Lucrarea 1 Norme de protecție a muncii
  - Lucrarea 5 Determinarea debitelor prin metoda strangulării

E Articole în extenso, publicate în reviste din fluxul științific internațional

-

Cluj-Napoca,
03.01.2019

Pentru conformitate,
Dr. ing. Oana (căs. Giurgiu) Irimieș

Lista contracte de cercetare

Dr.ing. Irimieș (căs. Giurgiu) Oana

Nr. crt.	Proiectul	Funcția	Perioada
1.	**Program SECTORIAL** / „Analiza comparativa a instituțiilor si instrumentelor legislative si financiare specializate pentru evaluarea transferului si valorificarea rezultatelor"	Membru	2005-2008
2.	**CEEX – RELANSIN** / Cercetări complexe asupra unui biomaterial cu baza Ti cu caracteristici speciale, obținut prin tehnologia metalurgiei pulberilor	Membru	2005-2008
3.	**CEEX, RELANSIN** / „Cercetări fundamentale si aplicative privind realizarea bronzurilor CuNiAl destinate recondiționării elicelor navale" Contract CEEX 322 / 06.10.2006	Membru	2006-2009
4.	**PNCD II P 4-Parteneriate** / „Tehnologii si materiale inovative pentru fabricarea pieselor de uzura destinate producției de automobile" Contract nr. 71-061/ 14.09.2007	Membru	2007-2009
5.	**PNCD II P 5-INOVARE** / „Materiale noi si tehnologii inovative pentru creșterea rezistentei la oboseala si coroziune a pieselor de uzura" Contract Nr. 95/2007	Membru	2007-2009

Cluj-Napoca,

03.01.2019

Pentru conformitate,

Dr. ing. Oana (căs. Giurgiu) Irimieș