



LISTA DE LUCRĂRI

dr. ing. TOT Crina

1. Teza de doctorat:

PANEA, C. – *Studii și cercetări privind performanțele energetice și de disponibilitate ale sistemelor de valorificare a resurselor geotermale cu entalpie scăzută*, conducător științific prof. dr. ing. Ioan Felea, Universitatea din Oradea, 2012

2. Cărți și capitole de cărți de specialitate:

A) Cărți cu ISBN / capitole ca autor:

2.A1. **Tot C.** – *Performanța sistemelor de valorificare a energiei geotermale*, 2024, (ISBN 978-606-10-2386-8, 444 pagini).

3. Articole publicate în reviste:

A) Articole publicate în reviste cotate WOS:

3.A1. Felea I, **Panea C.**, Bendea G - Stochastic evaluation of the reliability of the geothermal energy exploitation systems, *Revue roumaine des sciences techniques-serie electrotechnique et energetique*, Volume59, Issue2, 2014, WOS:000337989500003, ISSN 0035-4066.

B) Articole publicate în reviste indexate în baze de date internaționale recunoscute (BDI):

3.B1. Felea. I., **Panea, C.**, Bendea G., Moldovan, V., Cîmpan, M. - Stochastic Reliability Modeling of Renewable Energy Sources - Applications to Electro-Geothermal Groups, *Journal of Sustainable Energy* (ISSN 2067-5534), Volume 5, No. 1, March, 2014, pp. 1-7

3.B2. **Panea, C.**, Rosca, M., Moldovan, V., Bendea, G., Ciobanca, A. - Analysis of Plate Heat Exchangers Situated in the Geothermal District Heating System – Iosia, Oradea, *Advances in Environment Technologies, Agriculture, Food and Animal Science - Proceedings of the 2nd International Conference on Energy and Environment Technologies and Equipment* (ISSN: 2227-4359, ISBN: 978-1-61804-188-3), Brasov, Romania, June, 2013, pp. 47 – 55

3.B3. Felea. I., Ciobanca A., Goia E., **Panea C.**, Quality Assessment of Thermal Insulation of Pipelines Within the District Heating Systems, *Journal of Sustainable energy*, CIE conference, 2013

3.B4. **Panea C.**, Dzitac S., Barla E., - Reliability Analysis of a Geothermal Binary Power Plant, No.4, From Svartsengy, Using Monte Carlo Simulation, *Journal of Sustainable energy*, 2012, CIE conference, 2012

3.B5. **Panea C.**, Felea I., Almasan I., - The Simulation of Processes and Performances within Low Enthalpy Geothermal Power Plants” ID paper M1134, accepted for December 2012 International Conference on Frontiers of Mechanical Engineering, Materials and Energy (ICFMEME 2012), ISI Proceedings.



- 3.B6. Felea I., Goia E., **Panea C.**, Management oriented towards reducing the environmental impact of insurance systems for urban heat, Journal of sustainable energy, ISSN 2067- 5534 Editura Universitatii din Oradea, Oradea, Romania, Vol.2, Nr.3, September, 2011, pp. 66-72.
- 3.B7. Blaga A., **Panea C.**, Gligor E. “Monoagent heating system for solitary consumers, using heat from biomass burning” Journal of sustainable energy, ISSN 2067- 5534 Editura Universitatii din Oradea, Oradea, Romania, Vol.1, Nr.1, pp. 46-50, Mai 2011
- 3.B8. Blaga A., Gligor E., Goia E., **Panea C.**, Aspects regarding the heating systems basing on renewable energy, 7th International conference of phd Students, ISBN 978-963-661-935-0 ISBN 978-963-661-939-8, Published by the University of Miskolc, Innovation, and Technology Transfer Center, Miskolc, Hungary, August 10, 2010.
- 3.B9. Blaga A., Roșca M., Gligor E., **Panea C.** -Integration of renewable sources of the thermal energy in centralized district heating systems of Oradea Municipality, Journal of sustainable energy, ISSN 2067- 5534 Editura Universitatii din Oradea, Oradea, Romania, Vol.1, Nr.3, pp. 50-59, Mai 2010
- 3.B10. Goia E., Blaga A., **Panea C.**, “Substitution of usual heat exchanger with high performance heat exchanger - thermal tubes, from a geothermal plant which functions on geothermal water”, 7th International conference of phd Students, ISBN 978-963-661-935-0 ISBN 978-963-661-939-8, Published by the University of Miskolc, Innovation, and Technology Transfer Center, Miskolc, Hungary, August 10, 2010.
- 3.B11. **Panea C.**, Roșca M., Blaga A. - Power generation from low enthalpy, Geothermal resources Journal of sustainable energy, vol. 1, no. 2, june, 2010
- 3.B12. Felea I., **Panea C.** - Stochastic analysis upon the feasibility of the geothermal energy exploitation, Journal of sustainable energy, ISSN 2067-5534, Vol. 3, Nr. 4, 2012

4. Brevete de invenție indexate în alte baze de date:

A) Membru în echipă:

4.A1 Blaga A., Felea I., **Panea C.** – Brevet Instalații De Automatizare A Sistemului Hibrid Destinat Alimentării Cu Energie Termică A Unui Utilizator Individual, 11) 128963 A2 (51) H05B 1/02 (2006.01) (21) a 2012 00228 (22) 30.03.2012 (41) 30.10.2013//10/2013 (71)

5. Recunoașterea și impactul activității:

A) Citări în revistele și volumele conferințelor WOS (2 citări):

5.A1 Marius Ovidiu Neamtu¹, Mugur Balan², Dorin Petreus², Teodor Leuca¹, Nistor Daniel Trip¹. Considerations on a geothermal electric power generator based on organic Rankine cycle as a part of a smart-grid, Vol. 62, 4, pp. 431–435, Bucarest, 2017. (citeaza " Stochastic evaluation of the reliability of the geothermal energy exploitation systems" Felea I, Panea C., Bendea G -



Revue roumaine des sciences techniques-serie electrotechnique et energetique, Volume59, Issue2, 2014)

- 5.A2. Bogdan Dumitrescu, Anca Daniela Ionita, Horia Gavrilă, PICKING LINES MODELING, 2023,16,757, http://revue.elth.pub.ro/upload/61600316_BDumitrescu_RRST_1_2016_pp_78-83.pdf (citeaza Stochastic evaluation of the reliability of the geothermal energy exploitation systems" Felea I, Panea C., Bendea G - Revue roumaine des sciences techniques-serie electrotechnique et energetique, Volume59, Issue2, 2014.)

B) Citări în revistele și volumele conferințelor BDI (8 citări):

- 5.B1. J Sarkar, Review and future trends of supercritical CO₂ Rankine cycle for low-grade heat conversion, Renewable and Sustainable Energy Reviews Volume 48, August 2015, Pages 434-451 <https://doi.org/10.1016/j.rser.2015.04.039> (citeaza Power generation from low enthalpy, Geothermal resources, Panea C., Roșca M., Blaga A)
- 5.B2. Hadi Rostamzadeh, Afshin Yaghoubi, Saeed Ghavami Gargari, Majid Amidpour, Weifeng He, Reliability and Availability Consideration in Design of an Ammonia-Water CHP System for a Low-Temperature Geothermal Source, https://doi.org/10.1007/978-3-030-90720-4_3, 978-3-030-90720-4, Springer, Cham (citeaza Stochastic evaluation of the reliability of the geothermal energy exploitation systems" Felea I, Panea C., Bendea G - Revue roumaine des sciences techniques-serie electrotechnique et energetique, Volume59, Issue2, 2014.)
- 5.B3. Alvarez-Alvarado, M. S., Power system reliability enhancement with reactive power compensation and operational risk assessment with smart maintenance for power generators, Ph.D. Thesis, <http://etheses.bham.ac.uk/id/eprint/10234>, (citeaza Stochastic evaluation of the reliability of the geothermal energy exploitation systems" Felea I, Panea C., Bendea G - Revue roumaine des sciences techniques-serie electrotechnique et energetique, Volume59, Issue2, 2014.)
- 5.B4. COROIU N., MOLDOVAN V., MEIANU D., POPOVICI D., BARLA E, Evaluating The Impact Of Grid Connected Photovoltaic System On Bihor County Power System, Journal Of Sustainable Energy VOL. 5, NO. 4, December, 2014, (citeaza Stochastic evaluation of the reliability of the geothermal energy exploitation systems" Felea I, Panea C., Bendea G - Revue roumaine des sciences techniques-serie electrotechnique et energetique, Volume59, Issue2, 2014.)
- 5.B5. Ioan Felea; Vasile Moldovan; Daniel Albut-Dana, Stochastic approach in study of the effects of photovoltaic sources upon power distribution networks, 2014 International Symposium on Fundamentals of Electrical Engineering (ISFEE), DOI: 10.1109/ISFEE.2014.7050542, 978-1-4799-6821-3, (citeaza Stochastic evaluation of the reliability of the geothermal energy exploitation systems" Felea I, Panea C., Bendea G - Revue roumaine des sciences techniques-serie electrotechnique et energetique, Volume59, Issue2, 2014.)

UNIVERSITATEA DIN ORADEA
FACULTATEA DE INGINERIE ENERGETICĂ ȘI
MANAGEMENT INDUSTRIAL

Str. Universității nr. 1, 410087 Oradea, România
Telefon: +40 259 408 106, Fax: +40 259 408 406



- 5.B6. Basel I. Ismail: Chapter 18. Power Generation Using Nonconventional Renewable Geothermal & Alternative Clean Energy Technologies, in Planet Earth 2011 - Global Warming Challenges and Opportunities for Policy and Practice, InTech, October, 2011, ISBN 978-953-307-733-8, 646 pages (citează Panea, C., Roșca, M., Blaga, A.C.: Power Generation from Low Enthalpy Geothermal Resources, Journal of Sustainable Energy, Vol. I, No. 2, ISSN 2067-5534, 2010, pag. 46-40.)
- 5.B7. Marius-Costel Balan, Marina Verdes, Ion Serbanoiu, Vasilica Ciocan, Gabriel Teodoriu, Technical-economic Analysis of Ensuring the Heat Independence for Residential Building in Romania, <https://doi.org/10.1016/j.protcy.2013.12.53>, (citează Blaga A., Panea C., Gligor E. “Monoagent heating system for solitary consumers, using heat from biomass burning” Journal of sustainable energy, ISSN 2067- 5534 Editura Universitatii din Oradea, Oradea, Romania, Vol.1, Nr.1, pp. 46-50, Mai 2011)
- 5.B8. Basel I. Ismail, ORC-Based Geothermal Power Generation and CO2-Based EGS for Combined Green Power Generation and CO2 Sequestration, DOI: 10.5772/52063 (Panea C., Roșca M., Blaga A. - Power generation from low enthalpy, Geothermal resources Journal of sustainable energy, vol. 1, no. 2, june, 2010)

C) Membru în asociații profesionale naționale și internaționale:

- 5.C1. Membru SIER SOCIETATEA INGINERILOR ENERGETICIENI DIN ROMANIA

Oradea,
30.07.2025

dr. ing. Crina TOT