LISTA DE LUCRĂRI
FELSEGHI RALUCA – ANDREEA

A. *Lista celor maximum 10 lucrări considerate de candidat a fi cele mai relevante pentru realizările profesionale proprii*

1. Cobîrzan, N., Muntean, R., Thalmaier, G., & **Felseghi, R. A.** (2022). *Recycling of mining waste in the production of masonry units.* Materials, 15(2), 594. https://doi.org/10.3390/ma15020594. **F.I. = 3.748 (Q1 ISI Journal Citation Reports © Ranking: 2021).**
2. Ancaș, A. D., Așchilean, I., Profire, M., Țurcanu, F. E., & **Felseghi, R. A.** (2021). *Experimental Study on the Behaviour of Seismic Actions on a Flexible Glass-Reinforced Plastic Structure Used in Water Transport Pipes*. Materials, 14(11), 2878. https://doi.org/10.3390/ma14112878. **F.I. = 3.748 (Q1 ISI Journal Citation Reports © Ranking: 2021).**
3. Douma, B. C., Abderezzak, B., Ailam, E., **Felseghi, R. A.,** Filote, C., Dumitrescu, C., & Raboaca, M. S. (2021). *Design Development and Analysis of a Partially Superconducting Axial Flux Motor Using YBCO Bulks*. Materials, 14(15), 4295. https://doi.org/10.3390/ma14154295. **F.I. = 3.748 (Q1 ISI Journal Citation Reports © Ranking: 2021).**
4. Kumar, D., Verma, C., Singh, P. K., Raboaca, M. S., **Felseghi, R. A.**, & Ghafoor, K. Z. (2021). *Computational Statistics and Machine Learning Techniques for Effective Decision Making on Student's Employment for Real-Time*. Mathematics, 9(11), 1166. https://doi.org/10.3390/math9111166. **F.I. = 2.592 (Q1 ISI Journal Citation Reports © Ranking: 2021).**
5. Așchilean, I., Cobîrzan, N., Bolboaca, A., Boieru, R., & **Felseghi, R. A.** (2021). *Pairing solar power to sustainable energy storage solutions within a residential building: A case study*. WILEY - International Journal of Energy Research, *45*(10), 15495-15511. https://doi.org/10.1002/er.6982**. F.I. = 4.672 (Q1 ISI Journal Citation Reports © Ranking: 2021).**
6. Filote Constantin, **Felseghi Raluca-Andreea**, Raboaca Maria Simona, Aşchilean Ioan. (2020). *Environmental Impact Assessment of Green Energy Systems for Power Supply of Electric Vehicle Charging Station.* WILEY - International Journal of Energy Research, 44(13), 10471-10494., https://doi.org/10.1002/er.5678. **F.I. = 5.164 (Q1 ISI Journal Citation Reports © Ranking: 2020).**
7. **Felseghi, R. A.,** Așchilean, I., Cobîrzan, N., Bolboacă, A. M., & Raboaca, M. S. (2021). *Optimal Synergy between Photovoltaic Panels and Hydrogen Fuel Cells for Green Power Supply of a Green Building—A Case Study*. Sustainability, 13(11), 6304. https://doi.org/10.3390/su13116304 **F.I. = 3.889 (Q2 ISI Journal Citation Reports © Ranking: 2021).**
8. Dumitrescu, C., Raboaca, M. S., & **Felseghi, R. A.** (2021). *Methods for Improving Image Quality for Contour and Textures Analysis Using New Wavelet Methods*. Applied Sciences, 11(9), 3895. https://doi.org/10.3390/app11093895. **F.I. = 2.838 (Q2 ISI Journal Citation Reports © Ranking: 2021).**

9. **Felseghi R.A.,** Carcadea E., Raboaca M.S., Trufin C.N., Filote C. (2019). *Hydrogen Fuel Cell Technology for the Sustainable Future of Stationary Applications.* MDPI - Energies, 12, 4593. https://doi.org/10.3390/en12234593. **F.I. = 2.702 (Q3 ISI Journal Citation Reports © Ranking: 2019).**
10. Badea G., **Felseghi R.A.**, Varlam M., Filote C., Culcer M., Iliescu M., Răboacă M.S. (2019). *Design and Simulation of Romanian Solar Energy Charging Station for Electric Vehicles*, MDPI - Energies, 12 (1), 74. https://doi.org/10.3390/en12010074. **F.I. = 2.702 (Q3 ISI Journal Citation Reports © Ranking: 2019).**

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B. Teza de doctorat

CONTRIBUȚII PRIVIND UTILIZAREA PILELOR DE COMBUSTIBIL ÎN DOMENIUL CASELOR PASIVE

C. Brevete de invenție și alte titluri de proprietate industrială:

-

D. Cărţi / capitole în cărţi de specialitate

- AUTOR

1. **Felseghi, R. A.** (2023). *Hydrogen-Energy Vector Within a Sustainable Energy System for Mobile Applications.* In Hydrogen Fuel Cell Technology for Mobile Applications (pp. 1-31). IGI Global. DOI: 10.4018/978-1-6684-6721-3.ch001.
2. **Felseghi, R. A.** (2023). *Comparative Analysis Regarding the Performance Criteria of Hydrogen Fuel Cells Used in Green Electricity Generation for Mobility.* In Hydrogen Fuel Cell Technology for Mobile Applications (pp. 238-263). IGI Global. DOI: 10.4018/978-1-6684-6721-3.ch010.
3. Cobirzan, N., Muntean, R., & **Felseghi, R. A.** (2023). Valorification of Waste for Sustainable Concrete Production. In *Circular Economy Implementation for Sustainability in the Built Environment* (pp. 159-172). IGI Global. DOI: 10.4018/978-1-6684-8238-4.ch007.
4. Cobîrzan, N., Muntean, R., Thalmaier, G., & **Felseghi, R. A.** (2022). *Approach of the Circular Economy in the Field of Precast Elements and Buildings. Limits, Trends, and Perspective.* In Clean Technologies and Sustainable Development in Civil Engineering (pp. 1-18). IGI Global. DOI: 10.4018/978-1-7998-9810-8.ch001.
5. **Felseghi, R.A.**; Bolboacă, A; Răboaca, M.S.; Aşchilean, I. (2021). *Hybrid Energy Systems for Power of Sustainable Buildings. Case Study: A Renewable Energy Based on-Site Green Electricity Production.* Reference Module in Earth Systems and Environmental Sciences 2021 ELSEVIER https://doi.org/10.1016/B978-0-12-819727-1.00037-6.
6. Badea, G., **Felseghi, R. A.,** Aşchilean, I. (2021). *Hydrogen-Energy Vector Within a Sustainable Energy System for Stationary Applications.* In Hydrogen Fuel Cell Technology for Stationary Applications (pp. 1-21). IGI Global. DOI: 10.4018/978-1-7998-4945-2.ch001.

7. **Felseghi R.A.**; Badea, F. (2021). *Hydrogen Fuel Cell Technologies for Sustainable Stationary Applications*. In Hydrogen Fuel Cell Technology for Stationary Applications (pp. 166-185). IGI Global. DOI: 10.4018/978-1-7998-4945-2.ch007.

8. **Felseghi R.A.**; Şoimoşan T.M.; Filote C.; Raboaca M. S., *Considerations Regarding the Green Retrofitting of Residential Buildings From Human Wellbeing Perspectives*; capitol în cartea Retrofitting for Optimal Energy Performance; IGI Global; DOI: 10.4018/978-1-5225-9104-7.ch007, 2019, ISBN13: 978-152-25-9104-7.

9. Şoimoşan T.M.; **Felseghi R.A.**; Raboaca M.S.; Filote C., *Heating Systems: A Comparative Assessment of Alternative Solutions*; capitol în cartea Retrofitting for Optimal Energy Performance; IGI Global; DOI: 10.4018/978-1-5225-9104-7.ch012; 2019, ISBN13: 978-152-25-9104-7.

10. Badea, G.; Bolboaca, A.M.; **Felseghi, R.A.** *Instalaţii Sanitare în Clădiri.* Ed. RISOPRINT, Cluj - Napoca, 2021, ISBN 978-973-53-2679-1.

11. Şoimoşan T.M., Danku G., **Felseghi R.A.**, *Termotehnica construcţiilor*, Ed. U.T. PRESS, Cluj-Napoca 2017, ISBN 978-606-737-271-7.

- EDITOR - cărţi de specialitate naţionale

12. **Editor: Felseghi R.A.;** Autori: Aşchilean I., Băncilă Ş.; *Calitatea în construcţii,* Ed. RISOPRINT, Cluj - Napoca, 2019, ISBN 978-973-53-2320-2.

- EDITOR - cărţi de specialitate internaţionale

13. **Editor: Felseghi R.A.;** *Hydrogen Fuel Cell Technology for Mobile Applications*, DOI: 10.4018/978-1-6684-6721-3; ISBN13: 9781668467213; EISBN13: 9781668467237; https://www.igi-global.com/book/hydrogen-fuel-cell-technology-mobile/303942.

14. **Editori**: **Felseghi R.A.**; Cobîrzan N.; Raboaca M.S.; *Clean Technologies and Sustainable Development in Civil Engineering*, DOI: 0.4018/978-1-7998-9810-8; ISBN13: 9781799898108; EISBN13: 9781799898122; https://www.igi-global.com/book/clean-technologies-sustainable-development-civil/281280.

15. **Editori**: Badea G.**; Felseghi R.A.**; Aşchilean I.; *Hydrogen Fuel Cell Technology for Stationary Applications*, DOI: 10.4018/978-1-7998-4945-2; ISBN13: 9781799849452 ; EISBN13: 9781799849469 ; https://www.igi-global.com/book/hydrogen-fuel-cell-technology-stationary/244626.

16. **Editori**: Cobîrzan N.; Muntean R.; **Felseghi R.A.**; *Circular Economy Implementation for Sustainability in the Built Environment*, DOI: 10.4018/978-1-6684-8238-4; ISBN13: 9781668482384; EISBN13: 9781668482407; https://www.igi-global.com/book/circular-economy-implementation-sustainability-built/312245.

E. Articole/studii in extenso, publicate în reviste din fluxul ştiinţific internaţional principal - indexate Web of Science (ResearcherID D-3722-2015)

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11. Rathod, T., Jadav, N. K., Alshehri, M. D., Tanwar, S., Sharma, R., **Felseghi, R. A.**, & Raboaca, M. S. (2022). *Blockchain for Future Wireless Networks: A Decade*

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12. Sharma R., Kumar R., Singh P.K., RaboacaM.S., **Felseghi R.A.** (2020). *A Systematic Study on the Analysis of the Emission of CO, CO_2 and HC for Four - Wheelers and Its Impact on the Sustainable Ecosystem*. MDPI - Sustainability, 12 (17), 6707. https://doi.org/10.3390/su12176707. **F.I. = 3.251 (Q2 ISI Journal Citation Reports © Ranking: 2020).**
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14. Rata M., Rata G., Filote C., Raboaca M.S., Graur A., Afanasov C., **Felseghi R.A.** (2020). *The Electrical Vehicle Simulator for Charging Station in Mode 3 of IEC 61851-1 Standard*. MDPI - Energies, *13*, 176. https://doi.org/10.3390/en13010176. **F.I. = 3.004 (Q3 ISI Journal Citation Reports © Ranking: 2020).**
15. Răboacă M.S., Badea G., Enache A., Filote C., Răsoi G., Raţă M., Lavric A., **Felseghi R.A.** (2019). *Concentrating Solar Power Technologies*, MDPI - Energies, 19 (1048). https://doi.org/10.3390/en19061048. **F.I. = 2.702 (Q3 ISI Journal Citation Reports © Ranking: 2019).**
16. Roman M.D., **Felseghi R.A.,** Mureşan M.V. (2015). *Modelling and simulation of BOD and COD for effluent levels of an aeration tank from Gherla waste water treatment plant*, Studia Universitatis Babeş-Bolyai, Chemia 60 (2, TOM II), Cluj-Napoca, p. 399. WOS:000369161800037. **F.I. = 0.305 (Q3 ISI Journal Citation Reports © Ranking: 2017).**

F. Publicații in extenso, apărute în lucrări ale principalelor conferințe internaționale de specialitate - indexate Web of Science (ResearcherID D-3722-2015)

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2. Badea G., Şoimoşan T.M., **Felseghi R.A.,** *Influence of the Systemic Operating Temperatures on the Energy Efficiency of the Existing Heat Exchangers,* The 12th International Conference INTER-ENG 2018, Interdisciplinary in Engineering Tg. Mureş, România. DOI: 10.1016/j.promfg.2019.02.243.
3. Şoimoşan T.M., Danku G., **Felseghi R.A.,** *The assessment of global thermo-energy performances of existing district heating systems optimized by harnessing renewable energy sources,* Proceedings of the 11th Int. Conference on Processes in Isotopes and Molecules - PIM 2017. https://doi.org/10.1063/1.5018279.
4. Badea G., **Felseghi R.A.,** Aşchilean I., Răboacă S.M., Şoimoşan T.M., *The role of hydrogen as a future solution to energetic and environmental problems for residential buildings,* Proceedings of the 11th Int. Conference on Processes in Isotopes and Molecules - PIM 2017. https://doi.org/10.1063/1.5018277.
5. Şoimoşan T.M., **Felseghi R.A.,** *Comparative Thermo-energetic Analysis of the District Heating Systems that Harness Renewable Energy Sources,* The 11th Internat. Conference

INTER-ENG 2017, Tg. Mureş, România, Procedia Engineering, vol.181, 2017, pp.754-761, https://doi.org/10.1016/j.proeng.2017.02.462.

6. Badea G., **Felseghi R.A.**, Răboacă M.S., Aşchilean I., Bolboacă A., Mureşan D., Moldovan E., Şoimoşan T.M., *Techno-Economical Analysis of Hybrid PV-WT-Hydrogen FC System for a Residential Building with Low Power Consumption,* Problemele Energeticii Regionale, 3 (32), 2016, pp. 78-84; doi:10.5281/zenodo.1207923. WOS:000401958000008.
7. Şoimoşan T.M., **Felseghi R.A.,** *Efficient solar technique for buildings connected to the district heating system. indicators of performance*, SGEM Vienna GREEN Extended Scientific Sessions, 2016; Book 4(3), pp. 251-258; DOI:10.5593/SGEM2016/HB43/S11.033. WOS:000391348900033.
8. Badea G., **Felseghi R.A.,** Aşchilean I., Bolboacă A., Mureşan D., Şoimoşan T.M., Ştefănescu I., Răboacă M.S., *Energen System for Power Supply of Passive House. Case Study,* 2nd International Conference on Mathematics and Computers in Sciences and Industry, Sliema, Malta, 2015, IEEE *Explore 2016*, doi: 10.1109/MCSI.2015.31.
9. Badea G., Naghiu G.S., **Felseghi R.A.,** Răboacă S., Aşchilean I., Giurca I., *Multi-criteria Analysis on How to Select Solar Radiation Hydrogen Production System,* Proceedings of the 10th Int. Conference on Processes in Isotopes and Molecules - PIM 2015. https://doi.org/10.1063/1.4938449.
10. Badea G., **Felseghi R.A.,** Răboacă S.M., Aşchilean I., Mureşan D., Naghiu G., *Performance of Fuel Cell for Energy Supply of Passive House,* Proceedings of the 10th Int. Conference on Processes in Isotopes and Molecules - PIM 2015. https://doi.org/10.1063/1.4938448.
11. Badea G., **Felseghi R.A.,** Aşchilean I., Moldovan E., Safirescu C., *Comparative study regarding the electrolytically production of hydrogen using renewable energy sources for power supply of passive house,* Energy & Clean Technologies, Ed. STEF92 Technology Ltd, Bulgaria, 2015, DOI: 10.5593/SGEM2015/B41/S17.014. WOS:000371056000014.
12. Badea G., Răboacă S.M., Demeusy V., **Felseghi R.A.,** Ştefănescu I., *Simulation and design optimization of a photovoltaic fuel cell hybrid system,* Energy & Clean Technologies, Ed. STEF92 Technology Ltd, Bulgaria, SGEM 2015, p. 519. WOS:000371056000067.
13. **Felseghi R.A.,** Şoimoşan T.M., Megyesi E., *Overview of Hydrogen Production Technologies from Renewable Resources,* Renewable Energy Sources & Clean Technologies, Ed. STEF92 Technology Ltd, Sofia, Bulgaria, 2014, p. 377 - 384; DOI: 10.5593/SGEM2014/B41/S17.049. WOS:000371089600049.
14. Megyesi E., Brumaru M., Naghiu G.S., **Felseghi R.A.**, *Choosing the optimal type of external wall constructions for application in the field of passive house,* Green Buildings Technologies and Materials & Green Design and Sustainable Architecture , Ed. STEF92 Technology Ltd, Sofia, Bulgaria, 2014, p.65; DOI: 10.5593/SGEM2014/B62/S26.009. WOS:000366135800009.
15. Şoimoşan T.M., **Felseghi R.A.,** *Increasig the Energy Performance of an Industrial Building by Technological Waste Heat Recovery,* Renewable Energy Sources & Clean Technologies, Ed. STEF92 Technology Ltd, Sofia, Bulgaria, 2014, pp. 299 - 306; DOI: 10.5593/SGEM2014/B41/S17.039. WOS:000371089600039

G. Alte lucrări și contribuții științifice - Articole publicate - cotate / indexate BDI

1. **Felseghi, R. A.,** Raboaca, M. S., & Bolboacă, A. (2020). *Simulation model for designing a hybrid energy system for residential application*. International Multidisciplinary Scientific GeoConference: SGEM, 20(6.1), 435-442.
2. Raboaca, M. S., **Felseghi, R. A.**, & Filote, C. (2020). *Optimal configuration of an electric vehiclecharging station powered by wind energy*. International Multidisciplinary Scientific GeoConference: SGEM, 20(4.1), 137-144.
3. Badea, G., Gagea-Manitiu, V., Gagea, A. M., **Felseghi, R. A.**, & Bolboaca, A. M. (2020). *Performance model of solar collectors for energy efficiency of buildings*. International Multidisciplinary Scientific GeoConference: SGEM, 20(6.2), 219-226.
4. Badea, G., Gagea, A. M., Gagea-Manitiu, V., **Felseghi, R. A.**, & Bolboaca, A. M. (2020). *Thermal performance model of solar collectors with integrated pcm-tes*. International Multidisciplinary Scientific GeoConference: SGEM, 20(6.2), 243-250.
5. Badea, G., **Felseghi, R. A.**, Aşchilean, I., Bolboacă, A., & Şoimoşan, T. M. (2019). *Energy from renewable sources for improving energy efficiency in heritage historic buildings*. International Multidisciplinary Scientific GeoConference: SGEM, 19(4.1), 169-176.
6. Filote, C., **Felseghi, R. A.**, Cârlea, F., Raţă, M., Martiş, C. S., Lavric, A., ... & Răboacă, M. S. (2019). *Green Hybrid Energy for Office Building*. In E3S Web of Conferences (Vol. 111). EDP Sciences.
7. Badea G., Oprea C., **Felseghi R.A.**, Aşchilean I., Bolboacă A., *A review on Romanian potential of renewable energy sources for power generation in building applications*, Renewable Energy Sources & Clean Technologies, Ed. STEF92 Technology Ltd, Sofia, Bulgaria, 2018.
8. Badea G., Oprea C., **Felseghi R.A.**, Bolboacă A., Şoimoşan T.M., *Comparative Analysis Regarding The Use Of Hybrid Energy Generation Systems For Residential Buildings*, SGEM Vienna GREEN Extended Scientific Sessions, 2018.
9. Badea G., **Felseghi R.A.,** Răboaca S.M., Aşchilean I., Bolboacă A., Mureşan D., Şoimoşan T.M., *RES Storage Solution for Clean Electrification of Passive House,* Controlling and Architecture of Cyber Physical Systems, Ed. Trans Tech Publications Ltd, Elveţia, 2015; p. 339; DOI: 10.4028/www.scientific.net/AMM.811.339.
10. Badea G., **Felseghi R.A.,** Răboaca S.M., Aşchilean I., Bolboacă A., Mureşan D., Moldovan E., Şoimoşan T.M., *Hybrid Solar and Wind Electric System for Romanian Nearly Zero Energy Buildings (nZEB) - Case Study,* Controlling and Architecture of Cyber Physical Systems, Ed. Trans Tech Publications Ltd, Elveţia, 2016; pp. 110-115; https://doi.org/10.4028/www.scientific.net/AMM.841.
11. Badea G., Răboacă S.M., Ştefănescu I., **Felseghi R.A.,** Vincent Demeusy, *Comparative Study on Optimization of Hybrid Systems,* Progress of Cryogenics and Isotopes Separation - ICSI Rm. Vâlcea, Ed. CONPHYS Press Rm. Vâlcea, 18 (1), 2015, p. 45.
12. Corsiuc G.D., Mârza C., Ceuca E., **Felseghi R.A.,** Şoimoşan T.M., *Hybrid solar - wind stand - alone energy system: a case study,* Advanced Research in Aerospace, Robotics, Manufacturing Systems, Mechanical Engineering and Bioengineering, Ed. Trans Tech Publications Ltd, Elveţia, 2015, p. 536; DOI: 10.4028/www.scientific.net/AMM.772.536.

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14. **Felseghi R.A.,** Papp A., *Considerations regarding hybrid systems of power generator from renewable energy sources,* Studia Universitatis Babeş-Bolyai Ambientum, Cluj-Napoca, România, LIX (2014), p. 27.
15. **Felseghi R.A.,** Şoimoşan T.M., Safirescu O.C., Aşchilean I., Roman M.D., Iacob G.D., *Estimation of hydrogen and electrical energy production by using solar and wind resources for a residential building from Romania,* Monitoring, Controlling and Architecture of Cyber Physical Systems, Ed. Trans Tech Publications Ltd, Elveţia, 2014, p. 543-551; DOI: 10.4028/www.scientific.net/AMM.656.542.
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17. Roman M.D., **Felseghi R.A.,** *Analysis of Oxygen Transfer and Dissolved Oxygen Concentration Measurement Tests in a Wastewater Treatment Plant,* Advanced Research in Aerospace, Robotics, Manufacturing, Mechanical Engineering and Bioengineering, Ed.Trans Tech Publications, Elveţia, 2014, p.486; DOI: 10.4028/www.scientific.net/AMM.656.486.
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19. Şoimoşan T.M., **Felseghi R.A.,** Firescu V., *Aspecte de management privind valorificarea surselor regenerabile de energie la producerea căldurii în zonele urbane din România (Management aspects regarding the use of renewable energy sources for heat generation in urban areas of Romania),* Review of Management & Economic Engineering, vol.15 (3), 2016, pp. 512 - 525.
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21. Şoimoşan T.M., **Felseghi R.A.,** Safirescu O.C., Iacob G.D., *Influence of the Operating Regime on the Performances of Thermal-Solar Systems Integrated in Heating Networks,* Advanced Research in Aerospace, Robotics, Manufacturing Systems, Mechanical Engineering and Bioengineering, Ed. Trans Tech Publications Ltd, Elveţia, 2015, p. 531; DOI: 10.4028/www.scientific.net/AMM.772.531.
22. Şoimoşan T.M., **Felseghi R.A.,** Safirescu O.C., Moldovan E., *The efficiency of harnessing thermal-solar energy in existing buildings connected to the district heating system,* Revista Română de Inginerie Civilă, Ed. MatrixRom, Bucureşti, România, 2015.

28 decembrie 2023 ***dr. ing. Raluca - Andreea FELSEGHI***