

Lucrări științifice:

Lucrări publicate în reviste clasificate Q1 (primele 25% din cadrul unui subdomeniu) sau Q2 (primele 50% din cadrul unui subdomeniu)

1. Rusu, E., Guedes Soares C. and Pilar, P., 2008: Evaluation of the Wave Conditions in Madeira Archipelago with Spectral Models. *Ocean Engineering*, Volume 35, Issue 13, September 2008, pp 1357-1371 <http://dx.doi.org/10.1016/j.oceaneng.2008.05.007> **Q1**
Observație: acest articol este inclus ca referința în pagina modelului SWAN, <http://swanmodel.sourceforge.net/> (section SWAN related publications, position 35).
2. Rusu, E., Conley, D.C. and Coelho, E.F., 2008: A Hybrid Framework for Predicting Waves and Longshore Currents. *Journal of Marine Systems*, Volume 69, Issues 1-2, pp 59–73. <http://dx.doi.org/10.1016/j.jmarsys.2007.02.009> **Q1**
3. Rusu, E., 2009: Wave energy assessments in the Black Sea. *Journal of Marine Science and Technology*, Springer, Volume 14, Issue 3 pp. 359-372. <http://dx.doi.org/10.1007/s00773-009-0053-6> **Q1**
4. Rusu, E. and Guedes Soares C., 2009: Numerical modeling to estimate the spatial distribution of the wave energy in the Portuguese nearshore. *Renewable Energy*, Elsevier, Volume 34, Issue 6, pp 1501-1516, <http://dx.doi.org/10.1016/j.renene.2008.10.027> **Q1**
5. Rusu, E., 2010: Modeling of wave-current interactions at the Danube's mouths. *Journal of Marine Science and Technology*, Vol. 15, Issue 2, pp 143-159. <http://dx.doi.org/10.1007/s00773-009-0078-x> **Q1**
6. Rusu, E. and Guedes Soares, C., 2010: Validation of Two Wave and Nearshore Current Models. *Journal of Waterway, Port, Coastal, and Ocean Engineering*, Volume 136, Issue 1, January/February 2010, pp 27-45. [http://dx.doi.org/10.1061/\(ASCE\)WW.1943-5460.0000023](http://dx.doi.org/10.1061/(ASCE)WW.1943-5460.0000023) **Q1**
7. Rusu, E. and Guedes Soares, C., 2011: Wave modeling at the entrance of ports. *Ocean Engineering*, Vol. 38, 17-18, pp 2089-2109 <http://dx.doi.org/10.1016/j.oceaneng.2011.09.002> **Q1**
8. Rusu, E., Gonçalves, M and Guedes Soares, C., 2011: Evaluation of the wave transformation in an open bay. *Ocean Engineering*, Vol. 38, 16, pp 1763–1781, <http://dx.doi.org/10.1016/j.oceaneng.2011.08.005> **Q1**
9. Rusu, E., Guedes Soares, C., 2012: Wave energy pattern around the Madeira islands. *Energy*, Vol. 5, Issue 1, pp 771-785. <http://dx.doi.org/10.1016/j.energy.2012.07.013> **Q1**
10. Silva, D., Rusu, E, Guedes Soares, C, 2013, Evaluation of Various Technologies for Wave Energy Conversion in the Portuguese Nearshore, *Energies*, 6(3), 1344-1364, <http://www.mdpi.com/1996-1073/6/3/1344> **Q2** (Best paper award 2018)
11. Rusu, E and Guedes Soares, C., 2013, Coastal impact induced by a Pelamis wave farm operating in the Portuguese nearshore, *Renewable Energy* 58, 34-49 <http://dx.doi.org/10.1016/j.renene.2013.03.001> **Q1**

12. Rusu, E., Onea, F., 2013: Evaluation of the wind and wave energy along the Caspian Sea, *Energy*, Vol 50, pp. 1-14, <http://dx.doi.org/10.1016/j.energy.2012.11.044> **Q1**
13. Bento, A., R., Rusu, E., Martinho, P., Guedes Soares, C., 2014. Assessment of the changes induced by a wave energy farm in the nearshore wave conditions, *Computers & Geosciences*, Volume 71, October 2014, Pages 50–61, <http://dx.doi.org/10.1016/j.cageo.2014.03.006> **Q2**
14. Zanol, A., Onea, F., Rusu, E., 2014. Coastal impact assessment of a generic wave farm operating in the Romanian nearshore, *Energy*, 72 (8), 652-670, <http://www.sciencedirect.com/science/article/pii/S0360544214006604> **Q1**
15. Rusu, E., 2014. Evaluation of the Wave Energy Conversion Efficiency in Various Coastal Environments, *Energies* 2014, Special Issue Selected Papers from the 1st International e-Conference on Energies, 7(6) 4002-4018, <http://www.mdpi.com/1996-1073/7/6/4002> **Q2**
16. Makris, C., Galiatsatou, P., Tolika, K., & Rusu, E., 2016, Climate change effects on the marine characteristics of the Aegean and Ionian Seas, *Ocean Dynamics* (2016) 66:1603–1635 DOI 10.1007/s10236-016-1008-1, <http://rdcu.be/IL9L> **Q2**
17. Onea, F., Rusu E., 2016, The expected efficiency and coastal impact of a hybrid energy farm operating in the Portuguese nearshore, *Energy*, Volume 97, 15 February 2016, Pages 411–423, <http://www.sciencedirect.com/science/article/pii/S0360544216000128> **Q1**
18. Silva, D., Rusu, E., Guedes Soares, C., 2016,. High-Resolution Wave Energy Assessment in Shallow Water Accounting for Tides, *Energies* 2016, 9(9), 761, <http://www.mdpi.com/1996-1073/9/9/761/htm> **Q2**
19. Rusu, E., Onea, F., 2016, Estimation of the wave energy conversion efficiency in the Atlantic Ocean close to the European islands, *Renewable Energy* 85, 687-703, <http://dx.doi.org/10.1016/j.renene.2015.07.042> **Q1**
20. Rusu, E., Onea, F., 2016, Study on the influence of the distance to shore for a wave energy farm operating in the central part of the Portuguese nearshore, *Energy Conversion and Management*, 114, 209-223, <http://dx.doi.org/10.1016/j.enconman.2016.02.020> **Q1**
21. Rusu, E., Raileanu, A., 2016, A multi parameter data assimilation approach for wave predictions in coastal areas, *Journal of Operational Oceanography*, Volume: 9 Issue: 1 Pages: 13-25, <http://dx.doi.org/10.1080/1755876X.2016.1192013> **Q1**
22. Ganea, D., Amorțilă, V., Mereuță, E., Rusu, E., 2017, A Joint Evaluation of the Wind and Wave Energy Resources Close to the Greek Islands, *Sustainability Journal*, Special Issue Wind Energy, Load and Price Forecasting towards Sustainability, 2017, 9(6), 1025; doi:10.3390/su9061025,, <http://www.mdpi.com/2071-1050/9/6/1025> **Q2**
23. Rusu, E., Onea, F., 2017, Joint Evaluation of the Wave and Offshore Wind Energy Resources in the Developing Countries, *Energies* 2017, 10(11), 1866; <http://www.mdpi.com/1996-1073/10/11/1866> **Q2**
24. Rusu, E., 2018, Study of the Wave Energy Propagation Patterns in the Western Black Sea, *Applied Sciences* 8(6), 993, <https://doi.org/10.3390/app8060993> **Q2**

25. Rusu, E., 2018, Numerical Modeling of the Wave Energy Propagation in the Iberian Nearshore, *Energies* 11(4), 980, <https://doi.org/10.3390/en11040980> **Q2**
26. Onea, F., Rusu, E., Onea, F., 2018, Sustainability of the Reanalysis Databases in Predicting the Wind and Wave Power along the European Coasts, *Sustainability Journal*, <http://www.mdpi.com/2071-1050/10/1/193> **Q2**
27. Khaoula Ghefiri, Aitor J. Garrido, Eugen Rusu, Soufiene Bouallègue, Joseph Haggège and Izaskun Garrido, 2018, Fuzzy Supervision Based-Pitch Angle Control of a Tidal Stream Generator for a Disturbed Tidal Input, *Energies* **2018**, *11*, 2989, <https://www.mdpi.com/1996-1073/11/11/2989> **Q2**
28. Kostas Belibassakis, Markos Bonovas and Eugen Rusu, 2018, A Novel Method for Estimating Wave Energy Converter Performance in Variable Bathymetry, Regions and Applications, *Energies* **2018**, *11*, 2092, <https://www.mdpi.com/1996-1073/11/8/2092> **Q2**
29. Adem Akpınar, Halid Jafali and Eugen Rusu, Temporal Variation of the Wave Energy Flux in Hotspot Areas of the Black Sea, *Sustainability* 2019, *11*(3), 562, <https://doi.org/10.3390/su11030562> **Q2**
30. Rusu, E., Onea, F., An assessment of the wind and wave power potential in the island environment, *Energy*, Volume 175, 15 May 2019, Pages 830-846, <https://doi.org/10.1016/j.energy.2019.03.130> **Q1**
31. Rusu, E., A 30-year projection of the future wind energy resources in the coastal environment of the Black Sea, *Renewable Energy*, Volume 139, August 2019, Pages 228-234, <https://www.sciencedirect.com/science/article/pii/S0960148119302368>, **Q1**
32. Rusu, E., Onea, F., A parallel evaluation of the wind and wave energy resources along the Latin American and European coastal environments, *Renewable Energy*, Volume 143, December 2019, Pages 1594-1607, <https://doi.org/10.1016/j.renene.2019.05.117> **Q1**