

LISTA DE LUCRĂRI

A - Articole în jurnale ISI (40 articole)

1. **Onea F**, Rusu E, 2022. *An Evaluation of Marine Renewable Energy Resources Complementarity in the Portuguese Nearshore*. JOURNAL OF MARINE SCIENCE AND ENGINEERING 10(12), 1901, <https://doi.org/10.3390/jmse10121901>, WOS:000901034300001, (FI: 2.9/2022), Q1 ENGINEERING, MARINE in SCIE edition 2022.
2. **Onea F**, Rusu E, 2022. *A spatial analysis of the offshore wind energy potential related to the Mediterranean islands*. ENERGY REPORTS 8(16), 99-105, <https://doi.org/10.1016/j.egy.2022.10.249>, WOS:000892651100015, (FI: 5.2/2022), Q2 ENERGY & FUELS in SCIE edition 2022. Prezentată la 7th International Conference on Advances on Clean Energy Research (ICACER), Barcelona, Spania, 20-22 Aprilie 2022.
3. Rusu E, **Onea F**, 2022. *Evaluation of the adverse weather conditions associated to some significant European marine renewable energy projects*. ENERGY REPORTS 8(16), 185-193, <https://doi.org/10.1016/j.egy.2022.10.205>, WOS:000892651100026, (FI: 5.2/2022), Q2 ENERGY & FUELS in SCIE edition 2022. Prezentată la 7th International Conference on Advances on Clean Energy Research (ICACER), Barcelona, Spania, 20-22 Aprilie 2022.
4. **Onea F**, Manolache A, Ganea D. *Assessment of the Black Sea High-Altitude Wind Energy*. JOURNAL OF MARINE SCIENCE AND ENGINEERING 10(10), 1463, <https://doi.org/10.3390/jmse10101463>, WOS:000873154000001, (FI: 2.9/2022), Q1 ENGINEERING, MARINE in SCIE edition 2022.
5. Yildirim V, Rusu E, **Onea F**, 2022. *Wind Variation near the Black Sea Coastal Areas Reflected by the ERA5 Dataset*. INVENTIONS 7(3), 57, <https://doi.org/10.3390/inventions7030057>, WOS:000858623600001, (FI: 3.4/2022), Q1 ENGINEERING, MULTIDISCIPLINARY in ESCI edition 2022.
6. Yildirim V, Rusu E, **Onea F**, 2022. *Wind Energy Assessments in the Northern Romanian Coastal Environment Based on 20 Years of Data Coming from Different Sources*. Sustainability 14 (7), 4249, <https://doi.org/10.3390/su14074249>, WOS:000781321400001, (FI: 3.9/2022), Q2 ENVIRONMENTAL SCIENCES in SCIE edition.
7. Girleanu A, **Onea F**, Eugen R, 2021. *The efficiency and coastal protection provided by a floating wind farm operating in the Romanian nearshore*. Energy Reports <https://doi.org/10.1016/j.egy.2021.05.057>, WOS:000709730700003, (FI: 5.2/2022), Q2 ENERGY & FUELS in SCIE edition 2022. Prezentată la 6th International Conference on Advances on Clean Energy Research, ICACER Barcelona, Spain, 15-17 Aprilie, 2021.
8. Girleanu A, **Onea F**, Rusu E, 2021. *Assessment of the Wind Energy Potential along the Romanian Coastal Zone*. Inventions 6(2), 41, <https://doi.org/10.3390/inventions6020041>, WOS:000667164800001, (FI: 3.4/2022), Q1 ENGINEERING, MULTIDISCIPLINARY in ESCI edition 2022.
9. Rusu L, **Onea F**, Rusu E, 2021. *The Expected Impact of Marine Energy Farms Operating in Island Environments with Mild Wave Energy Resources—A Case Study in the Mediterranean Sea*. Inventions 6(2), 33, <https://doi.org/10.3390/inventions6020033> WOS:000667164300001, (FI: 3.4/2022), Q1 ENGINEERING, MULTIDISCIPLINARY in ESCI edition 2022.
10. **Onea F**, Rusu E, Rusu L, 2021. *Assessment of the Offshore Wind Energy Potential in the Romanian Exclusive Economic Zone*. JOURNAL OF MARINE SCIENCE AND ENGINEERING 9(5), 531, <https://doi.org/10.3390/jmse9050531> (FI: 2.9/2022), Q1 ENGINEERING, MARINE in SCIE edition 2022.
11. **Onea F**, Rusu L, Carp B, Rusu E, 2021. *Wave Farms Impact on the Coastal Processes – A Case Study Area in the Portuguese*



- Nearshore. JOURNAL OF MARINE SCIENCE AND ENGINEERING, 9(3), 262, <https://doi.org/10.3390/jmse9030262>, WOS:000633806800001, (FI: 2.9/2022), Q1 ENGINEERING, MARINE in SCIE edition 2022.
12. Ruiz A, **Onea F**, Rusu E, 2020. *Study Concerning the Expected Dynamics of the Wind Energy Resources in the Iberian Nearshore*. Energies 13(18) 4832, <https://doi.org/10.3390/en13184832>, WOS:000580100200001, (FI: 3.2/2022), Q3 ENERGY & FUELS in SCIE edition 2022.
 13. Raileanu A, **Onea F**, Rusu, E, 2020. *Implementation of Offshore Wind Turbines to Reduce Air Pollution in Coastal Areas—Case Study Constanta Harbour in the Black Sea*. JOURNAL OF MARINE SCIENCE AND ENGINEERING, 8(8), 550 <https://doi.org/10.3390/jmse8080550>, WOS:000567306400001, (FI: 2.9/2022), Q1 ENGINEERING, MARINE in SCIE edition 2022.
 14. **Onea F**, Ruiz A, Rusu E, 2020. *An Evaluation of the Wind Energy Resources along the Spanish Continental Nearshore*. Energies 13(15), 3986, <https://doi.org/10.3390/en13153986>, WOS:000558983700001, (FI: 3.2/2022), Q3 ENERGY & FUELS in SCIE edition 2022.
 15. Raileanu A, **Onea F**, Rusu, E, 2020. *An Overview of the Expected Shoreline Impact of the Marine Energy Farms Operating in Different Coastal Environments*. JOURNAL OF MARINE SCIENCE AND ENGINEERING, 8(2), 228, <https://doi.org/10.3390/jmse8030228>, WOS:000529415700083, (FI: 2.9/2022), Q1 ENGINEERING, MARINE in SCIE edition 2022.
 16. Rusu E, **Onea F**, 2019. *A parallel evaluation of the wind and wave energy resources along the Latin American and European coastal environments*. Renewable Energy 143, 1594-1607, <https://doi.org/10.1016/j.renene.2019.05.117>, WOS:000482686100049, (FI: 8.7/2022), Q1 ENERGY & FUELS in SCIE edition 2022.
 17. **Onea F**, Rusu E, 2019. *The expected shoreline effect of a marine energy farm operating close to Sardinia Island*. Water, 11(11), 2303, <https://doi.org/10.3390/w11112303>, WOS:000502264500105, (FI: 3.4/2022), Q2 ENVIRONMENTAL SCIENCES in SCIE edition 2022.
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 20. Rusu E, **Onea F**, 2019. *An assessment of the wind and wave power potential in the island environment*. Energy 175, 830-846, <https://doi.org/10.1016/j.energy.2019.03.130>, WOS:000466999400068, (FI: 9/2022), Q1 ENERGY & FUELS in SCIE edition 2022.
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 22. **Onea F**, Rusu L, 2018. *Evaluation of some state-of-the-art wind technologies in the nearshore of the Black Sea*. Energies 11(9), 2452 <https://doi.org/10.3390/en11092452>, WOS:000446604500273, (FI: 3.2/2022), Q3 ENERGY & FUELS in SCIE edition 2022.
 23. Rusu E, **Onea F**, 2018. *A review of the technologies for wave energy extraction*. CLEAN ENERGY 2(1), 10-19, <https://doi.org/10.1093/ce/zky003>, (FI: 2.3/2022), Q4 ENERGY & FUELS in SCIE edition 2022.
 24. Rusu L, Raileanu A, **Onea F**, 2018. *A comparative analysis of the wind and wave climate in the Black Sea along the shipping routes*. Water, 10(7), 924, <https://doi.org/10.3390/w10070924>, WOS:000442579700107, (FI: 3.4/2022), Q2 ENVIRONMENTAL SCIENCES in SCIE edition 2022.

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27. **Onea F**, Rusu L, 2017. *A long-term assessment of the Black Sea wave climate*. Sustainability 9(10), 1875, <https://doi.org/10.3390/su9101875>, WOS:000414896200205, (FI: 3.9/2022), Q2 ENVIRONMENTAL SCIENCES in SCIE edition 2022.
28. **Onea F**, Ciortan S, Rusu E, 2017. *Assessment of the potential for developing combined wind-wave projects in the European nearshore*. ENERGY & ENVIRONMENT, 28(5-6), 580-597 <https://doi.org/10.1177/0958305X17716947>, WOS:000411611400004, (FI: 4.2/2022), Q2 ENVIRONMENTAL STUDIES in SCIE edition 2022.
29. Rusu L, **Onea F**, 2017. *The performances of some state of the art wave energy converters in locations with the worldwide highest wave power*. Renewable & Sustainable Energy Reviews, 75, 1348-1362, <https://doi.org/10.1016/j.rser.2016.11.123>, WOS:000401395000107, (FI: 15.9/2022), Q1 ENERGY & FUELS in SCIE edition 2022.
30. **Onea F**, Deleanu L, Rusu L, Georgescu C, 2016. *Evaluation of the wind energy potential along the Mediterranean Sea coasts*. ENERGY EXPLORATION & EXPLOITATION 34(5), 766-792 <https://doi.org/10.1177/0144598716659592>, WOS:000382570100007, (FI: 2.7/2022), Q4 in ENERGY & FUELS in SCIE edition 2022.
31. 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, <https://doi.org/10.1016/j.enconman.2016.02.020>, WOS:000372676200019, (FI: 10.4/2022), Q1 in ENERGY & FUELS in SCIE edition 2022.
32. **Onea F**, Rusu E, 2016. *Efficiency assessments for some state of the art wind turbines in the coastal environments of the Black and the Caspian seas*. ENERGY EXPLORATION & EXPLOITATION, 34 (2), 217-234, <https://doi.org/10.1177/0144598716629872>, WOS:000371611300003, (FI: 2.7/2022), Q4 in ENERGY & FUELS in SCIE edition 2022.
33. **Onea F**, Rusu E, 2016. *The expected efficiency and coastal impact of a hybrid energy farm operating in the Portuguese nearshore*. Energy, 97, 411-423, <https://doi.org/10.1016/j.energy.2016.01.002>, WOS:000371841100035, (FI: 9/2022), Q1 ENERGY & FUELS in SCIE edition 2022.
34. 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, <https://doi.org/10.1016/j.renene.2015.07.042>, WOS:000363344800067, (FI: 8.7/2022), Q1 ENERGY & FUELS in SCIE edition 2022.
35. Rusu L, **Onea F**, 2015. *Assessment of the performances of various wave energy converters along the European continental coasts*. Energy 82, 889-904, <https://doi.org/10.1016/j.energy.2015.01.099>, WOS:000351788700079, (FI: 9/2022), Q1 ENERGY & FUELS in SCIE edition 2022.
36. **Onea F**, Raileanu A, Rusu E, 2015. *Evaluation of the wind energy potential in the coastal environment of two enclosed seas*. Advances in Meteorology 808617, <https://doi.org/10.1155/2015/808617>, WOS:000356713100001, (FI: 2.9/2022), Q3 METEOROLOGY & ATMOSPHERIC SCIENCES in SCIE edition 2022.
37. Zanol AT, **Onea F**, Rusu E, 2014. *Coastal impact assessment of a generic wave farm operating in the Romanian nearshore*. Energy 72, 652-670, <https://doi.org/10.1016/j.energy.2014.05.093>, WOS:000340321100062, (FI: 9/2022), Q1 ENERGY & FUELS in SCIE edition 2022.
38. **Onea F**, Rusu E, 2014. *An evaluation of the wind energy in the north-west of the Black Sea*. International Journal of Green Energy 11 (5), 465-487, <http://dx.doi.org/10.1080/15435075.2013.773513>, WOS:000326919500003, (FI: 3.3/2022), Q3 ENERGY & FUELS in SCIE edition 2022.
39. **Onea F**, Rusu E. 2014. *Wind energy assessments along the Black Sea basin*. Meteorological Applications, 21(2), 316-329 <https://doi.org/10.1002/met.1337>, WOS:000334790500020, (FI: 2.7/2022), Q3 METEOROLOGY & ATMOSPHERIC SCIENCES in SCIE edition 2022.
40. Rusu E, **Onea F**. 2013. *Evaluation of the wind and wave energy along the Caspian Sea*. Energy, 50, 1-14 <http://dx.doi.org/10.1016/j.energy.2012.11.044>, WOS:000316432700001, (FI: 9/2022), Q1 ENERGY & FUELS in SCIE edition 2022.

B - Conferințe internaționale (28 publicații)

1. Rusu E, **Onea F**, 2023. *A Computational Platform to assess the Coastal Impact of the Marine Energy Farms*. 8th International Conference on Advances on Clean Energy Research (ICACER). Barcelona, SPAIN, APR 27-29, 2023. <https://dream.ugal.ro/dream/materiale/diplome/72-Onea-A1001.pdf>
2. **Onea F**, Rusu E, 2023. *Expected Performances of WEC Systems Operating Near the European Offshore Wind Sites*. 8th International Conference on Advances on Clean Energy Research (ICACER). Barcelona, SPAIN, APR 27-29, 2023. <https://dream.ugal.ro/dream/materiale/diplome/71-Onea-A035.pdf>
3. **Onea F**, Rusu E, 2022. *A spatial analysis of the offshore wind energy potential related to the Mediterranean islands*. 7th International Conference on Advances on Clean Energy Research (ICACER). APR 20-22, 2022. Barcelona, SPAIN, https://dream.ugal.ro/dream/materiale/diplome/41-ICACER%202022-Onea_certificate%202.pdf
4. Rusu E, **Onea F**, 2022. *Evaluation of the adverse weather conditions associated to some significant European marine renewable energy projects*. 7th International Conference on Advances on Clean Energy Research (ICACER). APR 20-22, 2022, Barcelona, SPAIN. https://dream.ugal.ro/dream/materiale/diplome/40-ICACER%202022-Onea_certificate%201.pdf
5. Girleanu A, **Onea F**, Rusu E, 2021. *The efficiency and coastal protection provided by a floating wind farm operating in the Romanian nearshore*. 6th International Conference on Advances on Clean Energy Research (ICACER). April 15–17, 2021, Barcelona, Spain <https://doi.org/10.1016/j.egy.2021.05.057> .
6. Girleanu A, Rusu E, **Onea F**, 2021. *An insight into the Romanian energy market in the context of climate change and the european Green Deal*. International Multidisciplinary Scientific GeoConference: SGEM; Sofia, Vol. 21, Iss. 4.1, (2021). DOI:10.5593/sgem2021/4.1/s17.04 <https://www.proquest.com/openview/0e4cb9ef46275deb38de949d12c7343d/1?pq-origsite=gscholar&cbl=1536338>
7. Girleanu A, Rusu E, **Onea F**, 2021. *A spatial assessment of the Romanian nearshore wind conditions*. 21st International Multidisciplinary Scientific GeoConference SGEM 2021. DOI:10.5593/sgem2021/4.1/s17.01 https://www.epslibrary.at/sgem_jresearch_publication_view.php?page=view&editid1=8038&
8. Yildirim V, Rusu E, **Onea F**, 2021. *Wind condition analysis and partial repowering concept for Fantanele – Cogealac onshore project*. 21st International Multidisciplinary Scientific GeoConference SGEM 2021, 16 - 22 August, 2021. DOI:10.5593/sgem2021/4.1/s17.24 <https://www.sgem.org/index.php/elibrary-research-areas?view=publication&task=show&id=8061>
9. Novac V, Moraru L, **Onea F**, Rusu E, 2020. *Ballast water management in the Black Sea basin*. 20th International Multidisciplinary Scientific GeoConference SGEM 2020, 18 - 24 August, 2020. DOI:10.5593/sgem2020/3.1/s15.104 <https://www.sgem.org/index.php/elibrary-research-areas?view=publication&task=show&id=7199>
10. Hobjila A, **Onea F**, Rusu L, 2020. *Estimating weather windows availability in the Black Sea area*. 20th International Multidisciplinary Scientific GeoConference SGEM 2020, 18 - 24 August, 2020. DOI:10.5593/sgem2020/4.1/s17.009 <https://www.sgem.org/index.php/elibrary-research-areas?view=publication&task=show&id=7215>
11. **Onea F**, Rusu L, 2019. *An overview of the Black Sea weather downtime*. IISES International Academic Conference, September 23-26, 2019 Barcelona, Spain. <https://www.iises.net/proceedings/international-academic-conference-barcelona/table-of-content/detail?article=an-overview-of-the-black-sea-weather-downtime> DOI:10.20472/IAC.2019.052.049
12. Rusu E, **Onea F**, 2019. *Wind and wave energy resource of Germany reported by ERA-Interim reanalysis data*. 2nd International Conference on Renewable Energy and Environment Engineering (REEE 2019), August 19-22, 2019 Munich, Germany <https://doi.org/10.1051/e3sconf/201912204003>
13. **Onea F**, Rusu L, 2019. *Assessment of the Romanian onshore and offshore wind energy potential*. 2nd International Conference on Renewable Energy and Environment Engineering (REEE 2019), August 19-22, 2019 Munich, Germany. <https://doi.org/10.1051/e3sconf/201912201003>
14. **Onea F**, Rusu L, 2019. *Offshore wind energy and the Romanian energy future*. 4th International Conference on Advances on Clean Energy Research (ICACER 2019), April 5-7, 2019 Coimbra, Portugal. <https://doi.org/10.1051/e3sconf/201910301004>
15. **Onea F**, Rusu L, 2019. *Wave power variation near the Romanian coastal waters*. 4th International Conference on Advances on Clean Energy Research (ICACER 2019), April 5-7, 2019 Coimbra, Portugal. <https://doi.org/10.1051/e3sconf/201910301006>
16. **Onea F**, Rusu L, 2018. *Evaluation of the Black Sea wind energy potential for a renewable energy perspective*. 3rd International Conference on Power and Renewable Energy, September 21-24, 2018, Berlin, Germany. <https://files.ugal.ro/s/k6j2PczxR9ivzaW>
17. **Onea F**, Rusu L, 2018. *Assessment of the Romanian coastline wind energy potential*. 4th International Conference "Water resources



- and wetlands", September 5-9, 2018, Tulcea, Romania. <https://www.limnology.ro/wrw2018/programme.html>
18. **Onea F**, Rusu E, 2018. *Sensitivity analysis of the wave energy converters operating in the French coastal waters*. ICPET, 4-6 July 2018, Lille, France <https://icpet.org/icpet2018.html>; <http://www.ijsqce.com/index.php?m=content&c=index&a=show&catid=78&id=438>
DOI: 10.12720/sgce.8.2.239-244.
 19. Raileanu A, **Onea F**, Rusu L, 2018. *Coastal protection of the Romanian nearshore throughout hybrid wave and offshore wind farms*. ICACER2018, 6-8 April 2018, Barcelona, Spain. <https://doi.org/10.1051/e3sconf/20185101004>
 20. Rusu E, **Onea F**, 2018. *Evaluation of the shoreline effect of the marine energy farms in different coastal environments*. ICACER2018, 6-8 April 2018, Barcelona, Spain. <https://doi.org/10.1051/e3sconf/20185103005>
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 23. Raileanu A, **Onea F**, Rusu E, 2016. *Spatial and seasonal variations of the environmental conditions along the Black Sea shipping routes*. International Multidisciplinary Scientific GeoConferences SGEM, 28 June - 7 July 2016 Albena, Bulgaria. Issue 3 (2), pp. 829-836. <https://www.proquest.com/openview/60e020d895c3c05b9af042a8f45ce135/1?pq-origsite=gscholar&cbl=1536338>
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 25. Raileanu A, **Onea F**, Rusu E, 2015. *Assesment of the wind energy potential in the coastal environment of two enclosed seas*. OCEANS'15 MTS/IEEE GENOVA 18-21 May 2015 Genova, Italy <https://doi.org/10.1109/OCEANS-Genova.2015.7271248>
 26. Raileanu A, **Onea F**, Rusu E, 2015. *Evaluation of the offshore wind resources in the European seas based on satellite measurements*. 15th International Multidisciplinary Scientific Geoconference (SGEM) Location: Albena, BULGARIA Date: 18-24 June; 227-234, 2015 <http://toc.proceedings.com/27412webtoc.pdf>
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C - Cărți sau capitole de carte (3 lucrări)

1. **Onea F**, Rusu L, Rusu E, 2022. *Energia regenerabilă din mediul marin și sinergia dintre energia vântului și a valurilor*. Editura Zigotto Galați, ISBN 978-606-669-386-8, 295 pagini.
2. Rusu L, Raileanu A, **Onea F**. 2016. *Asimilarea de date cu aplicații la predicția climatului de val în bazinul Mării Negre*. Editura Zigotto Galați, ISBN 978-606-669-182-6, 300 pagini.
3. Rusu E, **Onea F**, Toderascu R. 2011. *The Black Sea: Dynamics, Ecology and Conservation, Ch. Dynamics of the environmental matrix in the Black Sea as reflected by recent measurements and simulations with numerical models*. Nova Science Publishers, Inc, New York. <https://www.pravaliacucarti.ro/enciclopedii/the-black-sea-dynamics-ecology-and-conservation.html>

D – Proiecte de cercetare (4 proiecte)

1. DREAM (2021 - prezent) - Dynamics of the Resources and technological Advance in harvesting Marine renewable energy (PN-III-P4-ID-PCE-2020-0008) <https://dream.ugal.ro/>
2. Grant intern acordat de Facultatea de Inginerie din Galați, 2022. Soluții avansate pentru utilizarea energiei vântului din bazinul Mării Negre. Contract de finanțare nr. 14890/11.05.2022 <https://cercetare.ugal.ro/files/finantare/beneficiari-grant-institutional-CDI-2022.pdf>

3. ROMAR (2018 - 2020) - ROmanian MARine Renewable solutions (PN-III-P1-1.1-PD-2016-0235) – *director de proiect* <https://romar.ugal.ro/>
4. REMARC (2017 - 2019) - Renewable Energy extraction in MARine environment and its Coastal impact (PN-III-P4-ID-PCE-2016-0017) <https://remarc.ugal.ro/>

septembrie 2023

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