

LISTA DE LUCRĂRI
Conf.univ.dr.ing. Scurtu Ionuț-Cristian

- [1] **Scurtu, I.C.** (2018). Water interference effect on ship due to square shaped object shielding. *IOP Conference Series: Earth and Environmental Science*, 172(1), ISSN 1755-1307, <https://doi.org/10.1088/1755-1315/172/1/012030>
- [2] **Scurtu, I.C.** (2019). Turbulent flow numerical simulation for unconventional propulsion. *Revista de Chimie*, 70(10), 3508-3511, ISSN 0034-7752, <https://doi.org/10.37358/rc.19.10.7585>
- [3] Radchenko, A., **Scurtu, I.C.** (2022). MONITORING THE EFFICIENCY OF COOLING AIR AT THE INLET OF GAS ENGINE IN INTEGRATED ENERGY SYSTEM. *Thermal Science*, 26(1), 185-194, ISSN 0354-9836, <https://doi.org/10.2298/TSCI200711344R>
- [4] Konovalov, D., **Scurtu, I.C.** (2021). Optimal Sizing of the Evaporation Chamber in the Low-Flow Aerothermopressor for a Combustion Engine. *Lecture Notes in Mechanical Engineering*, 654-663, ISSN 2195-4356, https://doi.org/10.1007/978-3-030-68014-5_63
- [5] Konovalov, D. , **Scurtu, I.C.** (2020). Determination of hydraulic resistance of the aerothermopressor for gas turbine cyclic air cooling. *E3S Web of Conferences*, 180, ISSN 2555-0403, <https://doi.org/10.1051/e3sconf/202018001012>
- [6] Radchenko, R., **Scurtu, I.C.** (2021). Improving the Ecological and Energy Efficiency of Internal Combustion Engines by Ejector Chiller Using Recirculation Gas Heat. *Lecture Notes in Networks and Systems*, 188, 531-541, ISSN 2367-3370, https://doi.org/10.1007/978-3-030-66717-7_45
- [7] Dobref, V., **Scurtu, I.C.** (2018). Unmanned Surface Vessel for Marine Data Acquisition. *IOP Conference Series: Earth and Environmental Science*, 172(1), ISSN 1755-1307, <https://doi.org/10.1088/1755-1315/172/1/012034>
- [8] Preda, A., **Scurtu, I.C.** (2019). Thermal image building inspection for heat loss diagnosis. *Journal of Physics: Conference Series*, 1297(1), ISSN 1742-6588, <https://doi.org/10.1088/1742-6596/1297/1/012004>
- [9] Upadhyay, A., **Scurtu, I.C.** (2021). Electric Vehicles over Contemporary Combustion Engines. *IOP Conference Series: Earth and Environmental Science*, 635(1), ISSN 1755-1307, <https://doi.org/10.1088/1755-1315/635/1/012004>
- [10] Novac, V., **Scurtu, I.C.** (2019). Opportunities and risks related to offshore activities in the western black sea. *Journal of Environmental Protection and Ecology*, 20(4), 1698-



- [11] Bosneagu, R., **Scurtu, I.C.** (2022). Long-term analysis of air temperatures variability and trends on the Romanian Black Sea Coast. *Acta Geophysica*, 70(5), 2179-2197, ISSN 1895-6572, <https://doi.org/10.1007/s11600-022-00886-5>
- [12] Bosneagu, R., **Scurtu, I.C.** (2019). Hydraulics numerical simulation using computational fluid dynamics (Cfd) method for the mouth of sulina channel. *Journal of Environmental Protection and Ecology*, 20(4), 2059-2067, ISSN 1311-5065
- [13] Poenaru, V., **Scurtu, I.C.** (2019). Review of wave energy harvesters. *Journal of Physics: Conference Series*, 1297(1), ISSN 1742-6588, <https://doi.org/10.1088/1742-6596/1297/1/012028>
- [14] **Scurtu, I.C.** (2018). Combined CFX and Structural Simulation for Bow Thrusters Loading under Operating Conditions. *Journal of Physics: Conference Series*, 1122(1), ISSN 1742-6588, <https://doi.org/10.1088/1742-6596/1122/1/012024>
- [15] Ristea, M., **Scurtu, I.C.** (2022). Computational Fluid Dynamics Simulation Approach for Scrubber Wash Water pH Modelling. *Energies*, 15(14), ISSN 1996-1073, <https://doi.org/10.3390/en15145140>
- [16] Novac, V., **Scurtu, I.C.** (2020). UUVs support to naval operations. *Scientific Bulletin of Naval Academy*, 23(1), 47-54, ISSN 1454-864X, <https://doi.org/10.21279/1454-864X-20-I1-007>
- [17] Balan, G.I., **Scurtu, I.C.** (2021). Considerations regarding the anti-icing system for the ship propulsion plant with gas turbine. *E3S Web of Conferences*, 286, ISSN 2555-0403, <https://doi.org/10.1051/e3sconf/202128604013>
- [18] Boşneagu, R., **Scurtu, I.C.** (2018). Black Sea - The geopolitical, economic, social and military importance. *Journal of Physics: Conference Series*, 1122(1), ISSN 1742-6588, <https://doi.org/10.1088/1742-6596/1122/1/012006>
- [19] Niță, C.M., **Scurtu, I.C.** (2018). Review in Numerical Simulation in Naval Application. *Journal of Physics: Conference Series*, 1122(1), ISSN 1742-6588, <https://doi.org/10.1088/1742-6596/1122/1/012020>
- [20] Babaei, M., **Scurtu, I.C.** (2021). Numerical and analytical study of seismic response of structural systems with new formulation using energy and impact methods. *E3S Web of Conferences*, 286, ISSN 2555-0403, <https://doi.org/10.1051/e3sconf/202128604014>
- [21] Tarasenko, O.I., **Scurtu, I.C.** (2022). Digital regulation of gas turbine engine on start modes. *IOP Conference Series: Earth and Environmental Science*, 968(1), ISSN 1755-1307, <https://doi.org/10.1088/1755-1315/968/1/012009>
- [22] Fathi, P. , **Scurtu, I.C.** (2021). Investigation of the Effects of Drilling on Mechanical



Joints in Composite Structures. *IOP Conference Series: Earth and Environmental Science*, 635(1), ISSN 1755-1307, <https://doi.org/10.1088/1755-1315/635/1/012010>

- [23] Clinci, C. Paul, **Scurtu, I.C.** (2019). Study on armour-piercing discarding sabot performance in 100 mm naval artillery. *Journal of Physics: Conference Series*, 1297(1), ISSN 1742-6588, <https://doi.org/10.1088/1742-6596/1297/1/012034>
- [24] Jafarova, V.N., **Scurtu, I.C.** (2024). Prediction of ferromagnetism in GaN:Ag and SiC:Ag nanotubes. *Advances in Natural Sciences: Nanoscience and Nanotechnology*, 15(3), ISSN 2043-6262, <https://doi.org/10.1088/2043-6262/ad71a7>
- [25] Ibaeva, R.Z., **Scurtu, I.C.** (2024). First-principles study of electronic and magnetic properties of Ag- and Au-doped single-walled (6,0) SiC nanotubes: DFT study. *Journal of Nanoparticle Research*, 26(9), ISSN 1388-0764, <https://doi.org/10.1007/s11051-024-06109-w>
- [26] Jafarova, V.N., **Scurtu, I.C.** (2024). Defect influence on the electronic and magnetic properties of silver-doped (6,0) single-walled ZnO nanotubes: a first-principles study. *Indian Journal of Physics*, 98(7), 2335-2346, ISSN 0973-1458, <https://doi.org/10.1007/s12648-023-03044-9>
- [27] **Scurtu, I.C.** (2023). Preface. *IOP Conference Series: Earth and Environmental Science*, 1236(1), ISSN 1755-1307, <https://doi.org/10.1088/1755-1315/1236/1/011001>
- [28] Bosneagu, R., **Scurtu, I.C.** (2023). Influence of geography and weather conditions on the navigation and seaborne trade in the Black Sea. *IOP Conference Series: Earth and Environmental Science*, 1236(1), ISSN 1755-1307, <https://doi.org/10.1088/1755-1315/1236/1/012006>
- [29] Stinga, V.G., **Scurtu, I.C.** (2023). ANALYSIS OF TRANSPORT NETWORKS USING MODERN METHODS TO ACHIEVE SUSTAINABLE DEVELOPMENT. *Journal of Environmental Protection and Ecology*, 24(3), 866-873, ISSN 1311-5065
- [30] Popa, A., **Scurtu, I.C.** (2022). Mooring analysis and simulation model for exhaust gas cleaning barge. *Journal of Environmental Protection and Ecology*, 23(5), 1811-1817, ISSN 1311-5065
- [31] Bosneagu, R., **Scurtu, I.C.** (2022). ASSESSMENT FOR A BUOY MODEL IN THE ROMANIAN BLACK SEA WATERS. *Journal of Environmental Protection and Ecology*, 23(5), 1884-1893, ISSN 1311-5065
- [32] Bosneagu, R., **Scurtu, I.C.** (2022). COMPUTATIONAL FLUID DYNAMICS ANALYSIS OF A WAVE ENERGY CONVERTER. *Journal of Environmental Protection and Ecology*, 23(4), 1441-1448, ISSN 1311-5065
- [33] Aleksey, I. Epikhin, **Scurtu, I.C.** (2022). Ship stabilization technology a feature used



for energy efficiency. *IOP Conference Series: Earth and Environmental Science*, 968(1), ISSN 1755-1307, <https://doi.org/10.1088/1755-1315/968/1/012007>

- [34] Bosneagu, R., **Scurtu, I.C.** (2021). A first approach of the hydrological factors' influence on the maritime navigation in the Black Sea. *Scientific Bulletin of Naval Academy*, 24(1), 240-253, ISSN 1454-864X, <https://doi.org/10.21279/1454-864X-21-I1-027>
- [35] Bosneagu, R., **Scurtu, I.C.** (2020). World seaborne trade in the 1990-2019 period and its perspective in Covid era. *Scientific Bulletin of Naval Academy*, 23(2), 108-117, ISSN 1454-864X, <https://doi.org/10.21279/1454-864X-20-I2-015>
- [36] **Scurtu, I.C.** (2020). Analysis of stability characteristics for modern passenger multirole boat. *IOP Conference Series: Materials Science and Engineering*, 916(1), ISSN 1757-8981, <https://doi.org/10.1088/1757-899X/916/1/012103>
- [37] Volintiru, O.N., **Scurtu, I.C.** (2019). Study of chilled water plant heat exchange for special ships. *Journal of Physics: Conference Series*, 1297(1), ISSN 1742-6588, <https://doi.org/10.1088/1742-6596/1297/1/012036>
- [38] **Scurtu, I.C.** (2018). Mechanical simulation approach in underwater high pressure acting on ships hull. *Journal of Physics: Conference Series*, 1122(1), ISSN 1742-6588, <https://doi.org/10.1088/1742-6596/1122/1/012033>

