

Vedran Mrzljak

List of Publications by Year in descending order

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Version: 2024-02-01

58
papers

790
citations

706676

14
h-index

651938

25
g-index

59
all docs

59
docs citations

59
times ranked

507
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | CFD Analysis of a Large Marine Engine Scavenging Process. Processes, 2022, 10, 141. | 1.3 | 7 |
| 2 | Selection Maps of Explicit Colebrook Approximations according to Calculation Time and Precision. Heat Transfer Engineering, 2021, 42, 839-853. | 1.2 | 4 |
| 3 | On Urinary Bladder Cancer Diagnosis: Utilization of Deep Convolutional Generative Adversarial Networks for Data Augmentation. Biology, 2021, 10, 175. | 1.3 | 13 |
| 4 | Thermodynamic Analysis of a Condensate Heating System from a Marine Steam Propulsion Plant with Steam Reheating. Journal of Marine Science and Application, 2021, 20, 117-127. | 0.7 | 3 |
| 5 | The influence of various optimization algorithms on nuclear power plant steam turbine exergy efficiency and destruction. Pomorstvo, 2021, 35, 69-86. | 0.2 | 8 |
| 6 | Use of Genetic Programming for the Estimation of CODLAG Propulsion System Parameters. Journal of Marine Science and Engineering, 2021, 9, 612. | 1.2 | 6 |
| 7 | Energy, Economic and Environmental Effects of the Marine Diesel Engine Trigeneration Energy Systems. Journal of Marine Science and Engineering, 2021, 9, 773. | 1.2 | 9 |
| 8 | Utilization of multilayer perceptron for determining the inverse kinematics of an industrial robotic manipulator. International Journal of Advanced Robotic Systems, 2021, 18, 172988142092528. | 1.3 | 15 |
| 9 | Estimation of COVID-19 epidemic curves using genetic programming algorithm. Health Informatics Journal, 2021, 27, 146045822097672. | 1.1 | 16 |
| 10 | Semantic Segmentation of Urinary Bladder Cancer Masses from CT Images: A Transfer Learning Approach. Biology, 2021, 10, 1134. | 1.3 | 6 |
| 11 | Developments in Marine Hybrid Propulsion. , 2021, , . | | 1 |
| 12 | Energy and Exergy Analysis of Waste Heat Recovery Closed-Cycle Gas Turbine System while Operating with Different Medium. Journal of Maritime & Transportation Science, 2021, 60, 21-48. | 0.2 | 2 |
| 13 | The Change in Low Power Steam Turbine Operating Parameters During Extractions Opening/Closing. Journal of Maritime & Transportation Science, 2021, 61, 57-78. | 0.2 | 0 |
| 14 | Conversion of A medium heavy heating oil tank into A heat storage tank. Heat and Mass Transfer, 2020, 56, 871-890. | 1.2 | 2 |
| 15 | Numerical analysis of geometrical and process parameters influence on temperature stratification in a large volumetric heat storage tank. Energy, 2020, 194, 116878. | 4.5 | 21 |
| 16 | Comparison of conventional and heat balance based energy analyses of steam turbine. Pomorstvo, 2020, 34, 74-85. | 0.2 | 12 |
| 17 | Analysis and Optimization of Atmospheric Drain Tank of Lng Carrier Steam Power Plant. Journal of Marine Science and Engineering, 2020, 8, 568. | 1.2 | 6 |
| 18 | Analysis of Low-Power Steam Turbine With One Extraction for Marine Applications. Nase More, 2020, 67, 87-95. | 0.1 | 5 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Comparison of Power Distribution, Losses and Efficiencies of a Steam Turbine with and without Extractions. Tehnički Glasnik, 2020, 14, 480-487. | 0.4 | 1 |
| 20 | Improvement of Marine Steam Turbine Conventional Exergy Analysis by Neural Network Application. Journal of Marine Science and Engineering, 2020, 8, 884. | 1.2 | 16 |
| 21 | Modeling the Spread of COVID-19 Infection Using a Multilayer Perceptron. Computational and Mathematical Methods in Medicine, 2020, 2020, 1-10. | 0.7 | 141 |
| 22 | Three Approaches to Low-Duty Turbo Compressor Efficiency Exploitation Evaluation. Applied Sciences (Switzerland), 2020, 10, 3373. | 1.3 | 1 |
| 23 | Energy Loss Analysis at the Gland Seals of a Marine Turbo-Generator Steam Turbine. Tehnički Glasnik, 2020, 14, 19-26. | 0.4 | 8 |
| 24 | Pressure drop in large volumetric heat storage tank radial plate diffuser. Journal of Energy Storage, 2020, 29, 101350. | 3.9 | 1 |
| 25 | Exergy analysis of marine waste heat recovery CO2 closed-cycle gas turbine system. Pomorstvo, 2020, 34, 309-322. | 0.2 | 5 |
| 26 | Energy and Exergy Evaluation of a Two-Stage Axial Vapour Compressor on the LNG Carrier. Entropy, 2020, 22, 115. | 1.1 | 5 |
| 27 | The Leakage of Steam Mass Flow Rate through the Gland Seals – Influence on Turbine Produced Power. Journal of Maritime & Transportation Science, 2020, 58, 39-56. | 0.2 | 1 |
| 28 | Comparison of Exergy and Various Energy Analysis Methods for a Main Marine Steam Turbine at Different Loads. Journal of Maritime & Transportation Science, 2020, 59, 9-34. | 0.2 | 3 |
| 29 | LNG Carrier Main Steam Turbine Reliability in the Exploitation Period of Time. TransNav, 2020, 14, 39-42. | 0.3 | 1 |
| 30 | COMPARISON OF ENERGY FLOW STREAM AND ISENTROPIC METHOD FOR STEAM TURBINE ENERGY ANALYSIS. Acta Polytechnica, 2019, 59, 109-125. | 0.3 | 14 |
| 31 | Energy and Exergy Analyses of Forced Draft Fan for Marine Steam Propulsion System during Load Change. Journal of Marine Science and Engineering, 2019, 7, 381. | 1.2 | 17 |
| 32 | 2D CFD Simulation of Water Injection Strategies in a Large Marine Engine. Journal of Marine Science and Engineering, 2019, 7, 296. | 1.2 | 32 |
| 33 | Energy Analysis of Main Propulsion Steam Turbine from Conventional LNG Carrier at Three Different Loads. Nase More, 2019, 66, 10-18. | 0.1 | 13 |
| 34 | Numerical analysis of the fuel spray packages penetration and gas inflow from quasi-dimensional diesel engine numerical model. Zbornik Veleučilišta U Rijeci, 2019, 7, 335-357. | 0.2 | 3 |
| 35 | EXERGY ANALYSIS OF THE MAIN PROPULSION STEAM TURBINE FROM MARINE PROPULSION PLANT. Brodogradnja, 2019, 70, 59-77. | 0.6 | 18 |
| 36 | Multilayer Perceptron approach to Condition-Based Maintenance of Marine CODLAG Propulsion System Components. Pomorstvo, 2019, 33, 181-190. | 0.2 | 16 |

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|----|--|-----|-----------|
| 37 | Exergy analysis of marine steam turbine labyrinth (gland) seals. Pomorstvo, 2019, 33, 76-83. | 0.2 | 16 |
| 38 | Genetic Algorithm Approach to Design of Multi-Layer Perceptron for Combined Cycle Power Plant Electrical Power Output Estimation. Energies, 2019, 12, 4352. | 1.6 | 62 |
| 39 | Marine Objects Recognition Using Convolutional Neural Networks. Nase More, 2019, 66, 112-120. | 0.1 | 19 |
| 40 | Analysis of Gas Turbine Operation before and after Major Maintenance. Journal of Maritime & Transportation Science, 2019, 57, 57-70. | 0.2 | 2 |
| 41 | Numerical Analysis of Fuel Injector Nozzle Geometry - Influence on Liquid Fuel Contraction Coefficient and Reynolds Number. Journal of Maritime & Transportation Science, 2019, 57, 23-45. | 0.2 | 2 |
| 42 | Numerical model for on-condition monitoring of condenser in coal-fired power plants. International Journal of Heat and Mass Transfer, 2018, 117, 912-923. | 2.5 | 29 |
| 43 | Energy and Exergy Analysis of the Condensate Pump During Internal Leakage from the Marine Steam Propulsion System. Pomorstvo, 2018, 32, 268-280. | 0.2 | 3 |
| 44 | Energy Power Losses and Efficiency of Low Power Steam Turbine for the Main Feed Water Pump Drive in the Marine Steam Propulsion System. Journal of Maritime & Transportation Science, 2018, 54, 37-51. | 0.2 | 9 |
| 45 | Low Power Steam Turbine Energy Efficiency and Losses During the Developed Power Variation. Tehnički Glasnik, 2018, 12, 174-180. | 0.4 | 12 |
| 46 | Efficiency and Losses Analysis of Steam Air Heater from Marine Steam Propulsion Plant. Energies, 2018, 11, 3019. | 1.6 | 11 |
| 47 | Eksergijska analiza ventila tlaka pare kod pomorskoga porivnog postrojenja na konvencionalnom LNG tankeru. Nase More, 2018, 65, 24-31. | 0.1 | 8 |
| 48 | Change in Steam Generators Main and Auxiliary Energy Flow Streams During the Load Increase of LNG Carrier Steam Propulsion System. Pomorstvo, 2018, 32, 121-131. | 0.2 | 8 |
| 49 | Turbogenerator Steam Turbine Variation in Developed Power: Analysis of Exergy Efficiency and Exergy Destruction Change. Modelling and Simulation in Engineering, 2018, 2018, 1-12. | 0.4 | 13 |
| 50 | Dual fuel consumption and efficiency of marine steam generators for the propulsion of LNG carrier. Applied Thermal Engineering, 2017, 119, 331-346. | 3.0 | 53 |
| 51 | Energy and exergy analysis of the turbo-generators and steam turbine for the main feed water pump drive on LNG carrier. Energy Conversion and Management, 2017, 140, 307-323. | 4.4 | 50 |
| 52 | Analiza energijske i eksergijske efikasnosti kondenzatora brtvene pare u propulzijskom sustavu LNG tankera. Nase More, 2017, 64, 20-25. | 0.1 | 8 |
| 53 | Quasi-dimensional diesel engine model with direct calculation of cylinder temperature and pressure. Tehnicki Vjesnik, 2017, 24, . | 0.3 | 5 |
| 54 | THERMODYNAMICAL ANALYSIS OF HIGH-PRESSURE FEED WATER HEATER IN STEAM PROPULSION SYSTEM DURING EXPLOITATION. Brodogradnja, 2017, 68, 45-61. | 0.6 | 11 |

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|----|---|-----|-----------|
| 55 | Efficiency and losses analysis of low-pressure feed water heater in steam propulsion system during ship maneuvering period. Pomorstvo, 2016, 30, 133-140. | 0.2 | 7 |
| 56 | Simulation of a Two-Stroke Slow Speed Diesel Engine Using a Quasi-Dimensional Model. Transactions of Famena, 2016, 40, 35-44. | 0.3 | 6 |
| 57 | Volume agglomeration process in quasi-dimensional direct injection diesel engine numerical model. Energy, 2016, 115, 658-667. | 4.5 | 13 |
| 58 | An alternative and hybrid propulsion for merchant ships: current state and perspective. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 0, , 1-33. | 1.2 | 5 |