

Teresa J Leo

List of Publications by Year in descending order

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Version: 2024-02-01

39
papers

1,084
citations

516215

16
h-index

414034

32
g-index

40
all docs

40
docs citations

40
times ranked

1221
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Large-Scale Maritime Transport of Hydrogen: Economic Comparison of Liquid Hydrogen and Methanol. ACS Sustainable Chemistry and Engineering, 2022, 10, 4300-4311. | 3.2 | 17 |
| 2 | Bulk power transmission at sea: Life cycle cost comparison of electricity and hydrogen as energy vectors. Applied Energy, 2021, 288, 116625. | 5.1 | 24 |
| 3 | Carbon dioxide treatment method for autonomous underwater vehicles powered by direct methanol fuel cells: A multi-criteria decision analysis approach. Journal of Power Sources, 2021, 512, 230322. | 4.0 | 3 |
| 4 | Emissions and noise reduction on-board an oceanographic vessel thanks to the use of proton-exchange membrane fuel cells. Proceedings of the Institution of Mechanical Engineers Part M: Journal of Engineering for the Maritime Environment, 2020, 234, 298-310. | 0.3 | 1 |
| 5 | Multicriteria analysis of seawater electrolysis technologies for green hydrogen production at sea. Renewable and Sustainable Energy Reviews, 2020, 133, 110166. | 8.2 | 75 |
| 6 | Autonomous Underwater Vehicle Powered by Direct Methanol Fuel Cell-Based Power Plants: A Quick Preliminary Design Model. Applied Sciences (Switzerland), 2020, 10, 7687. | 1.3 | 2 |
| 7 | 40SiO ₂ –40P ₂ O ₅ –20ZrO ₂ sol-gel infiltrated sSEBS membranes with improved methanol crossover and cell performance for direct methanol fuel cell applications. International Journal of Hydrogen Energy, 2020, 45, 20620-20631. | 3.8 | 4 |
| 8 | Performance of Sulfonated Poly(Vinyl Alcohol)/Graphene Oxide Polyelectrolytes for Direct Methanol Fuel Cells. Energy Technology, 2020, 8, 2000124. | 1.8 | 5 |
| 9 | Direct methanol fuel cell (DMFC) and H ₂ proton exchange membrane fuel (PEMFC/H ₂) cell performance under atmospheric flight conditions of Unmanned Aerial Vehicles. Renewable Energy, 2019, 130, 762-773. | 4.3 | 64 |
| 10 | Selection of thermoplastic polymers for use as bipolar plates in direct methanol fuel cell applications. Materials and Design, 2019, 183, 108148. | 3.3 | 11 |
| 11 | Sustainable Hydrogen Production from Offshore Marine Renewable Farms: Techno-Energetic Insight on Seawater Electrolysis Technologies. ACS Sustainable Chemistry and Engineering, 2019, 7, 8006-8022. | 3.2 | 78 |
| 12 | Toward Digitalization of Maritime Transport?. Sensors, 2019, 19, 926. | 2.1 | 98 |
| 13 | Automated design of direct methanol fuel cell stacks: A quick optimization. International Journal of Hydrogen Energy, 2019, 44, 10933-10950. | 3.8 | 7 |
| 14 | Autonomous underwater vehicles powered by fuel cells: Design guidelines. Ocean Engineering, 2018, 153, 387-398. | 1.9 | 29 |
| 15 | Polypyrrole and platinum deposited onto carbon substrate to enhance direct methanol fuel cell electrodes behaviour. International Journal of Hydrogen Energy, 2018, 43, 16913-16921. | 3.8 | 10 |
| 16 | Alkaline Electrolysis at Sea for Green Hydrogen Production: A Solution to Electrolyte Deterioration. , 2018, , . | | 1 |
| 17 | Conceptual Design of an Autonomous Underwater Vehicle Powered by a Direct Methanol Fuel Cell to Enlarge Endurance. , 2018, , . | | 2 |
| 18 | New expressions to determine the water diffusion coefficient in the membrane of PEM fuel cells. International Journal of Hydrogen Energy, 2016, 41, 19766-19770. | 3.8 | 9 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Review of implantable and external abiotically catalysed glucose fuel cells and the differences between their membranes and catalysts. <i>Applied Energy</i> , 2016, 179, 497-522. | 5.1 | 77 |
| 20 | Fuel cell electrodes prepared by e-beam evaporation of Pt compared with commercial cathodes: Electrochemical and DMFC behaviour. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 11315-11321. | 3.8 | 9 |
| 21 | Fuel Cells: A Real Option for Unmanned Aerial Vehicles Propulsion. <i>Scientific World Journal</i> , The, 2014, 2014, 1-12. | 0.8 | 52 |
| 22 | Current State of Technology of Fuel Cell Power Systems for Autonomous Underwater Vehicles. <i>Energies</i> , 2014, 7, 4676-4693. | 1.6 | 76 |
| 23 | Conceptual design of offshore platform supply vessel based on hybrid diesel generator-fuel cell power plant. <i>Applied Energy</i> , 2014, 116, 91-100. | 5.1 | 51 |
| 24 | Electrochemical study of platinum deposited by electron beam evaporation for application as fuel cell electrodes. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 5301-5308. | 3.8 | 17 |
| 25 | CO2 emissions from a spark ignition engine operating on natural gas-hydrogen blends (HCNG). <i>Applied Energy</i> , 2013, 101, 112-120. | 5.1 | 77 |
| 26 | Long Term Performance Study of a Direct Methanol Fuel Cell Fed with Alcohol Blends. <i>Energies</i> , 2013, 6, 282-293. | 1.6 | 15 |
| 27 | Comparative exergy analysis of direct alcohol fuel cells using fuel mixtures. <i>Journal of Power Sources</i> , 2011, 196, 1178-1183. | 4.0 | 13 |
| 28 | Exergy analysis of PEM fuel cells for marine applications. <i>Energy</i> , 2010, 35, 1164-1171. | 4.5 | 67 |
| 29 | Response of a direct methanol fuel cell to fuel change. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 11642-11648. | 3.8 | 14 |
| 30 | Thermodynamic evaluation of the Al ₂ O ₃ -H ₂ O binary system at pressures up to 30MPa. <i>Ceramics International</i> , 2009, 35, 3081-3090. | 2.3 | 12 |
| 31 | Vertical tube length calculation based on available heat transfer coefficient expressions for the subcooled flow boiling region. <i>Applied Thermal Engineering</i> , 2008, 28, 499-513. | 3.0 | 17 |
| 32 | A division of the thermomechanical exergy into two components with very different economic values. <i>Energy</i> , 2007, 32, 328-334. | 4.5 | 2 |
| 33 | A Generalized Deduction of the Ideal-Solution Model. <i>Journal of Chemical Education</i> , 2006, 83, 145. | 1.1 | 4 |
| 34 | A thermoeconomic analysis of a commercial aircraft environmental control system. <i>Applied Thermal Engineering</i> , 2005, 25, 309-325. | 3.0 | 24 |
| 35 | Gas turbine turbocharged by a steam turbine: a gas turbine solution increasing combined power plant efficiency and power. <i>Applied Thermal Engineering</i> , 2003, 23, 1913-1929. | 3.0 | 12 |
| 36 | Optimization of a commercial aircraft environmental control system. <i>Applied Thermal Engineering</i> , 2002, 22, 1885-1904. | 3.0 | 100 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Structure and equilibria of purine in ethanol. An UV study. Journal of Molecular Structure, 1988, 174, 83-88. | 1.8 | 3 |
| 38 | CNDO energies and stability of hydrogen-bonded selfassociated purine and oxipurine dimers.. Computational and Theoretical Chemistry, 1988, 166, 487-492. | 1.5 | 2 |
| 39 | Zero emissions wellboat powered by hydrogen fuel cells hybridised with batteries. Proceedings of the Institution of Mechanical Engineers Part M: Journal of Engineering for the Maritime Environment, 0, , 147509022110461. | 0.3 | 0 |