# Fortunato Migliardini

List of Publications by Year
in descending order



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|---|---|---|---|
| 44 papers | 1,228 citations | 361413 20 h-index | 377865 34 g-index |
| 45 all docs | 45 docs citations | 45 times ranked | 1138 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Biomimetic CO<sub>2</sub> capture using a highly thermostable bacterial Î±-carbonic anhydrase immobilized on a polyurethane foam. Journal of Enzyme Inhibition and Medicinal Chemistry, 2014, 29, 146-150. | 5.2 | 131 |
| 2 | Hydrogen production by catalytic partial oxidation of methane and propane on Ni and Pt catalysts. International Journal of Hydrogen Energy, 2007, 32, 55-66. | 7.1 | 110 |
| 3 | Xanthan and Îº-carrageenan based alkaline hydrogels as electrolytes for Al/air batteries. Carbohydrate Polymers, 2017, 157, 122-127. | 10.2 | 86 |
| 4 | Experimental analysis and management issues of a hydrogen fuel cell system for stationary and mobile application. Energy Conversion and Management, 2007, 48, 2365-2374. | 9.2 | 78 |
| 5 | Performance investigation of 2.4kW PEM fuel cell stack in vehicles. International Journal of Hydrogen Energy, 2007, 32, 4340-4349. | 7.1 | 77 |
| 6 | Experimental analysis of a 20kWe PEM fuel cell system in dynamic conditions representative of automotive applications. Energy Conversion and Management, 2008, 49, 2688-2697. | 9.2 | 61 |
| 7 | Experimental study of a fuel cell power train for road transport application. Journal of Power Sources, 2005, 145, 610-619. | 7.8 | 56 |
| 8 | Dynamic behaviour of hydrogen fuel cells for automotive application. Renewable Energy, 2009, 34, 1955-1961. | 8.9 | 55 |
| 9 | Experimental assessment of energy-management strategies in fuel-cell propulsion systems. Journal of Power Sources, 2006, 157, 799-808. | 7.8 | 52 |
| 10 | Hydrogen purge and reactant feeding strategies in self-humidified PEM fuel cell systems. International Journal of Hydrogen Energy, 2017, 42, 1758-1765. | 7.1 | 50 |
| 11 | An experimental study of a PEM fuel cell power train for urban bus application. Journal of Power Sources, 2008, 181, 363-370. | 7.8 | 46 |
| 12 | Experimental comparison between external and internal humidification in proton exchange membrane fuel cells for road vehicles. International Journal of Hydrogen Energy, 2015, 40, 5916-5927. | 7.1 | 34 |
| 13 | Energy management in fuel cell power trains. Energy Conversion and Management, 2006, 47, 3255-3271. | 9.2 | 32 |
| 14 | PEFC stacks as power sources for hybrid propulsion systems. International Journal of Hydrogen Energy, 2009, 34, 4635-4644. | 7.1 | 32 |
| 15 | Physically cross-linked xanthan hydrogels as solid electrolytes for Al/air batteries. Ionics, 2019, 25, 4209-4217. | 2.4 | 30 |
| 16 | Potentialities and limitations of lean de-NOx catalysts in reducing automotive exhaust emissions. Catalysis Today, 2000, 59, 279-286. | 4.4 | 26 |
| 17 | Solid and acid electrolytes for Al-air batteries based on xanthan-HCl hydrogels. Journal of Solid State Electrochemistry, 2018, 22, 2901-2916. | 2.5 | 26 |
| 18 | Hydrogen Fuel Cells for Road Vehicles. Green Energy and Technology, 2011, , . | 0.6 | 23 |

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|---|---|---|---|
| 19 | Lithium polymer batteries and proton exchange membrane fuel cells as energy sources in hydrogen electric vehicles. Journal of Power Sources, 2010, 195, 7849-7854. | 7.8 | 22 |
| 20 | Optimization of hydrogen feeding procedure in PEM fuel cell systems for transportation. International Journal of Hydrogen Energy, 2014, 39, 21746-21752. | 7.1 | 22 |
| 21 | Overview of electric propulsion and generation architectures for naval applications. , 2012, , . | | 21 |
| 22 | Dual solid electrolytes for aluminium-air batteries based on polyvinyl alcohol acidic membranes and neutral hydrogels. Journal of Solid State Electrochemistry, 2021, 25, 1207-1216. | 2.5 | 21 |
| 23 | Dynamic behaviour of Li batteries in hydrogen fuel cell power trains. Journal of Power Sources, 2011, 196, 9081-9086. | 7.8 | 20 |
| 24 | Hydrogen and proton exchange membrane fuel cells for clean road transportation. Journal of Industrial and Engineering Chemistry, 2011, 17, 633-641. | 5.8 | 17 |
| 25 | Natural gas and biofuel as feedstock for hydrogen production on Ni catalysts. Journal of Natural Gas Chemistry, 2009, 18, 9-14. | 1.8 | 14 |
| 26 | Aluminum-Air Batteries with Solid Hydrogel Electrolytes: Effect of pH Upon Cell Performance. Analytical Letters, 2021, 54, 28-39. | 1.8 | 13 |
| 27 | MFI and FAU-Type Zeolites as Trapping Materials for Light Hydrocarbons Emission Control at Low Partial Pressure and High Temperature. Journal of Chemistry, 2015, 2015, 1-11. | 1.9 | 12 |
| 28 | The effect of preparation and steaming on the catalytic properties of Cu-and Co-ZSM-5 in lean NOx reduction. Studies in Surface Science and Catalysis, 1995, 97, 295-302. | 1.5 | 9 |
| 29 | Experimental performance assessment of Pb, Li[NiCoMn]O<inf>2</inf> and LiFePO<inf>4</inf> batteries for road vehicles. , 2012, , . | | 8 |
| 30 | Zeoliteâ€Based Adsorbers for Reducing Light Hydrocarbon Emissions from Engine Exhaust. Separation Science and Technology, 2005, 39, 1547-1561. | 2.5 | 7 |
| 31 | ZEBRA battery based propulsion system for urban bus applications: Preliminary laboratory tests. , 2012, , . | | 7 |
| 32 | Cell voltage analysis of a 6 kW polymeric electrolyte fuel cell stack designed for hybrid power systems. Materials Today: Proceedings, 2019, 10, 393-399. | 1.8 | 7 |
| 33 | The effect of Al and Cu content on the performance of CuZSM5 catalysts at the exhaust of high efficiency spark ignition engines.. Studies in Surface Science and Catalysis, 1998, 116, 307-316. | 1.5 | 5 |
| 34 | Hydrogen release properties of lithium alanate for application to fuel cell propulsion systems. Journal of Power Sources, 2009, 193, 285-291. | 7.8 | 5 |
| 35 | Hydrocarbon adsorbers for reducing cold start emissions. , 0, , . | | 4 |
| 36 | Abatement of automotive cold start hydrocarbon emissions. , 2001, , . | | 2 |

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|---|---|---|---|
| 37 | Interaction between membrane humidifier and air supply system for application of fuel cells in vehicles. Journal of Industrial and Engineering Chemistry, 2012, 18, 1945-1950. | 5.8 | 2 |
| 38 | Study and Development of a Complete System for Recovery, Recycle, and Disposal of Refrigerant Gas from Existent Plants. Journal of Engineering (United States), 2017, 2017, 1-9. | 1.0 | 2 |
| 39 | Design of Hydrogen Fuel Cell Systems for Road Vehicles. Green Energy and Technology, 2011, , 103-130. | 0.6 | 1 |
| 40 | Eco-Friendly Aluminum-Air Batteries as a Possible Alternative to Lithium Systems. , 0, , . | | 1 |
| 41 | Fuel Cells for Automotive Applications. Green Energy and Technology, 2011, , 71-102. | 0.6 | 1 |
| 42 | Case Study A: Fuel Cell Power Train for Mopeds. Green Energy and Technology, 2011, , 167-198. | 0.6 | 0 |
| 43 | Management issues of direct hydrogen Fuel Cell Systems for application in automotive field. , 2012, , . | | 0 |
| 44 | Optimization of fuel cell performance in vehicles by electrochemical impedance spectroscopy. , 2012, , . | | 0 |