

Saverio Latorrata

List of Publications by Year in descending order

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46
papers

752
citations

471061

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h-index

580395

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all docs

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46
times ranked

638
citing authors

#	ARTICLE	IF	CITATIONS
1	Novel superhydrophobic microporous layers for enhanced performance and efficient water management in PEM fuel cells. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 5350-5357.	3.8	63
2	Preparation of structured catalysts with Ni and Ni-Rh/CeO ₂ catalytic layers for syngas production by biogas reforming processes. <i>Catalysis Today</i> , 2016, 273, 3-11.	2.2	58
3	Diagnosis of PEM Fuel Cell Drying and Flooding Based on Power Converter Ripple. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2014, 63, 2341-2348.	2.4	44
4	Activation of metallic open-cell foams via washcoat deposition of Ni/MgAl ₂ O ₄ catalysts for steam reforming reaction. <i>Catalysis Today</i> , 2012, 197, 256-264.	2.2	39
5	PEM Fuel Cell Drying and Flooding Diagnosis With Signals Injected by a Power Converter. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2015, 64, 2064-2071.	2.4	35
6	Aging effect on the variation of Li-ion battery resistance as function of temperature and state of charge. <i>Journal of Energy Storage</i> , 2022, 50, 104658.	3.9	33
7	Supercapacitor Sizing for Fast Power Dips in a Hybrid Supercapacitor-PEM Fuel Cell System. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2016, 65, 2196-2203.	2.4	31
8	Characterization of novel graphene-based microporous layers for Polymer Electrolyte Membrane Fuel Cells operating under low humidity and high temperature. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 7046-7058.	3.8	27
9	Perfluoropolyether-functionalized gas diffusion layers for proton exchange membrane fuel cells. <i>Journal of Power Sources</i> , 2014, 258, 351-355.	4.0	25
10	Design of properties and performances of innovative gas diffusion media for polymer electrolyte membrane fuel cells. <i>Progress in Organic Coatings</i> , 2015, 78, 517-525.	1.9	25
11	Co-precipitation in aqueous medium of La _{0.8} Sr _{0.2} Ga _{0.8} Mg _{0.2} O ₃ via inorganic precursors. <i>Journal of Power Sources</i> , 2010, 195, 8116-8123.	4.0	23
12	Analysis and Compensation of PEM Fuel Cell Instabilities in Low-Frequency EIS Measurements. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2014, 63, 1693-1700.	2.4	23
13	Development of an optimal gas diffusion medium for polymer electrolyte membrane fuel cells and assessment of its degradation mechanisms. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 14596-14608.	3.8	23
14	Low-Cost PEM Fuel Cell Diagnosis Based on Power Converter Ripple With Hysteresis Control. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2015, 64, 2900-2907.	2.4	21
15	Development of self-assembling sulfonated graphene oxide membranes as a potential proton conductor. <i>Materials Chemistry and Physics</i> , 2021, 257, 123768.	2.0	19
16	Washcoating of low surface area cerium oxide on complex geometry substrates. <i>Particulate Science and Technology</i> , 2016, 34, 184-193.	1.1	18
17	Effect of rheology controller agent addition to Micro-Porous Layers on PEMFC performances. <i>Solid State Ionics</i> , 2012, 216, 73-77.	1.3	17
18	Combining Electrical and Pressure Measurements for Early Flooding Detection in a PEM Fuel Cell. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2016, 65, 1007-1014.	2.4	17

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19	Carbonate coprecipitation synthesis of Sr- and Mg-doped LaGaO ₃ . <i>Materials Letters</i> , 2009, 63, 1892-1894.	1.3	16
20	Investigation of hydrophobic treatments with perfluoropolyether derivatives of gas diffusion layers by electrochemical impedance spectroscopy in PEM-FC. <i>Solid State Ionics</i> , 2012, 216, 100-104.	1.3	16
21	Development and Characterization of Non-Conventional Micro-Porous Layers for PEM Fuel Cells. <i>Energies</i> , 2015, 8, 7070-7083.	1.6	16
22	Innovative Perfluoropolyether-Functionalized Gas Diffusion Layers with Enhanced Performance in Polymer Electrolyte Membrane Fuel Cells. <i>Fuel Cells</i> , 2020, 20, 166-175.	1.5	16
23	Rare Earths (La, Y, and Nd) Adsorption Behaviour towards Mineral Clays and Organoclays: Monoionic and Trionic Solutions. <i>Minerals (Basel, Switzerland)</i> , 2021, 11, 30.	0.8	13
24	Use of Electrochemical Impedance Spectroscopy for the Evaluation of Performance of PEM Fuel Cells Based on Carbon Cloth Gas Diffusion Electrodes. <i>Journal of Spectroscopy</i> , 2018, 2018, 1-13.	0.6	12
25	Performance Evaluation and Durability Enhancement of FEP-Based Gas Diffusion Media for PEM Fuel Cells. <i>Energies</i> , 2017, 10, 2063.	1.6	11
26	The Role of Fluorinated Polymers in the Water Management of Proton Exchange Membrane Fuel Cells: A Review. <i>Energies</i> , 2021, 14, 8387.	1.6	11
27	Capture Mechanism of La and Cu Ions in Mixed Solutions by Clay and Organoclay. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 6803-6813.	1.8	10
28	Reduced Graphene Oxide Membranes as Potential Self-Assembling Filter for Wastewater Treatment. <i>Minerals (Basel, Switzerland)</i> , 2021, 11, 15.	0.8	10
29	Graphene oxide-naphthalene sulfonate blends as possible proton exchange membranes. <i>Solid State Ionics</i> , 2022, 376, 115858.	1.3	10
30	Coating method for Ni/MgAl ₂ O ₄ deposition on metallic foams. <i>Studies in Surface Science and Catalysis</i> , 2010, , 653-656.	1.5	8
31	Optimization of Perfluoropolyether-Based Gas Diffusion Media Preparation for PEM Fuel Cells. <i>Energies</i> , 2020, 13, 1831.	1.6	8
32	Capture and release mechanism of La ions by new polyamine-based organoclays: A model system for rare-earths recovery in urban mining process. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 104730.	3.3	7
33	Wastewater Treatment Using Alkali-Activated-Based Sorbents Produced from Blast Furnace Slag. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 2985.	1.3	7
34	Effective Ce-based catalysts deposition on ceramic open cell foams. <i>Applied Catalysis A: General</i> , 2019, 584, 117089.	2.2	6
35	Investigation of Sulfonated Graphene Oxide as the Base Material for Novel Proton Exchange Membranes. <i>Molecules</i> , 2022, 27, 1507.	1.7	6
36	Greenhouse Gas Implications of Extending the Service Life of PEM Fuel Cells for Automotive Applications: A Life Cycle Assessment. <i>Clean Technologies</i> , 2022, 4, 132-148.	1.9	6

#	ARTICLE	IF	CITATIONS
37	Preparation, <i>ex situ</i> and <i>in situ</i> Characterization of Gas Diffusion Media Containing and Non-Containing Carboxymethylcellulose for PEM Fuel Cells. Fuel Cells, 2015, 15, 463-471.	1.5	5
38	Preliminary Study on the Development of Sulfonated Graphene Oxide Membranes as Potential Novel Electrolytes for PEM Fuel Cells. ECS Transactions, 2018, 86, 347-356.	0.3	5
39	Effect of thickness and cracking phenomena on the photocatalytic performances of Ti/TiO ₂ photoanodes produced by dip coating. Materials Chemistry and Physics, 2019, 234, 1-8.	2.0	4
40	Graphene-based microporous layers for enhanced performance in PEM fuel cells. Materials Today: Proceedings, 2020, 31, 426-432.	0.9	3
41	Preparation and characterization of graphene oxide based membranes as possible Gas Diffusion Layers for PEM fuel cells with enhanced surface homogeneity. Materials Today: Proceedings, 2017, 4, 11594-11607.	0.9	2
42	Capture and Release Mechanism of Ni and La Ions via Solid/Liquid Process: Use of Polymer-Modified Clay and Activated Carbons. Polymers, 2022, 14, 485.	2.0	2
43	Analysis of Degradation Mechanisms and Durability Assessment of Graphene-Based MPLs for PEM Fuel Cells. ECS Transactions, 2018, 86, 337-345.	0.3	1
44	Electrical Characterization of LSGM Electrolytes Synthesized via Co-precipitation Route. ECS Transactions, 2009, 25, 1729-1736.	0.3	0
45	Analysis of Degradation Mechanisms and Durability Assessment of Graphene-Based Mpls for PEM Fuel Cells. ECS Meeting Abstracts, 2018, , .	0.0	0
46	Preliminary Study On The Development Of Sulfonated Graphene Oxide Membranes As Potential Novel Electrolytes For PEM Fuel Cells. ECS Meeting Abstracts, 2018, , .	0.0	0