

Romeli Barbosa

List of Publications by Year in descending order

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papers

427
citations

623734

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30
all docs

30
docs citations

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times ranked

564
citing authors

#	ARTICLE	IF	CITATIONS
1	Continuous input-current buck-boost DC-DC converter for PEM fuel cell applications. International Journal of Hydrogen Energy, 2017, 42, 30389-30399.	7.1	39
2	Catalytic activity of Pt-Ni nanoparticles supported on multi-walled carbon nanotubes for the oxygen reduction reaction. International Journal of Hydrogen Energy, 2016, 41, 23260-23271.	7.1	32
3	Stochastic reconstruction and a scaling method to determine effective transport coefficients of a proton exchange membrane fuel cell catalyst layer. Journal of Power Sources, 2011, 196, 1248-1257.	7.8	28
4	Sizing of a solar/hydrogen system for high altitude long endurance aircrafts. International Journal of Hydrogen Energy, 2014, 39, 16637-16645.	7.1	26
5	A novel DC-DC multilevel SEPIC converter for PEMFC systems. International Journal of Hydrogen Energy, 2016, 41, 23401-23408.	7.1	26
6	Self-doped Sargassum spp. derived biocarbon as electrocatalysts for ORR in alkaline media. International Journal of Hydrogen Energy, 2019, 44, 12399-12408.	7.1	25
7	Real time control of air feed system in a PEM fuel cell by means of an adaptive neural-network. International Journal of Hydrogen Energy, 2014, 39, 16750-16762.	7.1	24
8	Carbon nanotubes as support of well dispersed platinum nanoparticles via colloidal synthesis. Journal of Power Sources, 2013, 243, 88-94.	7.8	22
9	N-doped porous carbon from Sargassum spp. as metal-free electrocatalysts for oxygen reduction reaction in alkaline media. International Journal of Hydrogen Energy, 2017, 42, 30274-30283.	7.1	22
10	Material phase classification by means of Support Vector Machines. Computational Materials Science, 2018, 148, 336-342.	3.0	22
11	Preparation of metal-free electrocatalysts from cassava residues for the oxygen reduction reaction: A sulfur functionalization approach. International Journal of Hydrogen Energy, 2018, 43, 3172-3179.	7.1	21
12	PEAL: Power Efficient and Adaptive Latency Hierarchical Routing Protocol for Cluster-Based WSN. Wireless Personal Communications, 2017, 96, 4929-4945.	2.7	20
13	Analytical model as a tool for the sizing of a hydrogen production system based on renewable energy: The Mexican Caribbean as a case of study. International Journal of Hydrogen Energy, 2013, 38, 12562-12569.	7.1	17
14	Activated carbon from Water Hyacinth as electrocatalyst for oxygen reduction reaction in an alkaline fuel cell. International Journal of Hydrogen Energy, 2021, 46, 25995-26004.	7.1	16
15	Evaluation of assemblies based on carbon materials modified with dendrimers containing platinum nanoparticles for PEM-fuel cells. International Journal of Hydrogen Energy, 2009, 34, 2008-2014.	7.1	15
16	Effect of the image resolution on the statistical descriptors of heterogeneous media. Physical Review E, 2018, 97, 023304.	2.1	12
17	Multiscale relationship of electronic and ionic conduction efficiency in a PEMFC catalyst layer. International Journal of Hydrogen Energy, 2016, 41, 19399-19407.	7.1	10
18	N-Doped Porous Carbon from Sargassum spp. as Efficient Metal-Free Electrocatalysts for O ₂ Reduction in Alkaline Fuel Cells. Energies, 2019, 12, 346.	3.1	10

#	ARTICLE	IF	CITATIONS
19	Fuel-cell energy generation system based on the series-capacitor boost converter. International Journal of Hydrogen Energy, 2021, 46, 26126-26137.	7.1	8
20	Oxygen Reduction Reaction and PEM Fuel Cell Performance of a Chalcogenide Platinum Material. ECS Transactions, 2006, 3, 189-197.	0.5	6
21	Sizing of a solar-hydrogen power source for a portable emergency communication system: Case study of hurricanes in Cancun, Mexico. International Journal of Hydrogen Energy, 2015, 40, 17361-17370.	7.1	6
22	Stochastic Reconstruction at Two Scales and Experimental Validation to Determine the Effective Electrical Resistivity of a PEMFC Catalyst Layer. ECS Transactions, 2011, 41, 2061-2071.	0.5	5
23	Characteristics of Hydrochars Prepared from Cassava Residues Using Different Aqueous Media. Waste and Biomass Valorization, 2020, 11, 2857-2862.	3.4	4
24	Simulated annealing and finite volume method to study the microstructure isotropy effect on the effective transport coefficient of a 2D unidirectional composite. Materials Today Communications, 2020, 24, 101343.	1.9	4
25	Cyclic Current Profile Performance of Proton Exchange Membrane Fuel Cells in Stationary Applications. ECS Transactions, 2007, 11, 1527-1533.	0.5	3
26	Effect of An Image Resolution Change on the Effective Transport Coefficient of Heterogeneous Materials. Materials, 2019, 12, 3757.	2.9	3
27	Effect of the Agglomerate Geometry on the Effective Electrical Conductivity of a Porous Electrode. Membranes, 2021, 11, 357.	3.0	1
28	A PEM Fuel Cell based on Carbon-Fiber Electrodes Modified with Platinum Nanoparticles Encapsulated in PAMAM Dendrimers. ECS Transactions, 2007, 11, 367-374.	0.5	0
29	A study on the conduction efficiency of solid materials that evolves from a particulate system to an overlapping discs agglomerate. Powder Technology, 2021, 391, 569-583.	4.2	0
30	Control system for alkaline electrolyser focused to enrichment of dual fuel. IEEE Latin America Transactions, 2021, 19, 1808-1815.	1.6	0