

Thiago Lopes

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

1,311
citations

566801

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610482

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docs citations

27
times ranked

1844
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of Substrate and Pyrolysis Atmosphere of FeN _x Materials on Electrocatalysis of the Oxygen Reduction Reaction. <i>Electrocatalysis</i> , 2021, 12, 548-563.	1.5	4
2	PEM fuel cells fed by hydrogen from ethanol dehydrogenation reaction: Unveiling the poisoning mechanisms of the by-products. <i>Electrochimica Acta</i> , 2020, 355, 136773.	2.6	4
3	Spatially resolved oxygen reaction, water, and temperature distribution: Experimental results as a function of flow field and implications for polymer electrolyte fuel cell operation. <i>Applied Energy</i> , 2019, 252, 113421.	5.1	5
4	Non-Noble Fe-N _x /C Electrocatalysts on Tungsten Carbides/N-Doped Carbons for the Oxygen Reduction Reaction. <i>Electrocatalysis</i> , 2019, 10, 134-148.	1.5	8
5	A Reliability-Based Strategy for the Analysis of Single Proton Exchange Membrane Fuel Cells. <i>Energy and Power Engineering</i> , 2019, 11, 303-319.	0.5	0
6	Oxygen reduction electrocatalysis on transition metal-nitrogen modified tungsten carbide nanomaterials. <i>Journal of Electroanalytical Chemistry</i> , 2018, 810, 222-231.	1.9	23
7	Carbon-supported Pt nanoparticles with (100) preferential orientation with enhanced electrocatalytic properties for carbon monoxide, methanol and ethanol oxidation in acidic medium. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 28786-28796.	3.8	30
8	Investigation of convective transport in the gas diffusion layer used in polymer electrolyte fuel cells. <i>Physical Review Fluids</i> , 2017, 2, .	1.0	3
9	A catalyst layer optimisation approach using electrochemical impedance spectroscopy for PEM fuel cells operated with pyrolysed transition metal-N-C catalysts. <i>Journal of Power Sources</i> , 2016, 323, 189-200.	4.0	37
10	Mechanistic Insights into the Oxygen Reduction Reaction on Metal-N-C Electrocatalysts under Fuel Cell Conditions. <i>ChemElectroChem</i> , 2016, 3, 1580-1590.	1.7	31
11	Performance of Fe-N/C Oxygen Reduction Electrocatalysts toward NO ₂ ⁺ , NO, and NH ₂ OH Electroreduction: From Fundamental Insights into the Active Center to a New Method for Environmental Nitrite Destruction. <i>Journal of the American Chemical Society</i> , 2016, 138, 16056-16068.	6.6	111
12	In situ electrochemical quantification of active sites in Fe-N/C non-precious metal catalysts. <i>Nature Communications</i> , 2016, 7, 13285.	5.8	349
13	The intriguing poison tolerance of non-precious metal oxygen reduction reaction (ORR) catalysts. <i>Journal of Materials Chemistry A</i> , 2016, 4, 142-152.	5.2	69
14	Assessing the performance of reactant transport layers and flow fields towards oxygen transport: A new imaging method based on chemiluminescence. <i>Journal of Power Sources</i> , 2015, 274, 382-392.	4.0	6
15	Diagnosing the Effects of Ammonia Exposure on PEFC Cathodes. <i>Journal of the Electrochemical Society</i> , 2014, 161, F703-F709.	1.3	11
16	Non-precious Metal Oxygen Reduction Reaction Catalysts Synthesized Via Cyanuric Chloride and N-Ethylamine. <i>Electrocatalysis</i> , 2014, 5, 396-401.	1.5	7
17	Ionic Transport and Water Vapor Uptake of Ammonium Exchanged Perfluorosulfonic Acid Membranes. <i>Journal of the Electrochemical Society</i> , 2012, 159, B265-B269.	1.3	16
18	Oxygen reduction reaction on a Pt/carbon fuel cell catalyst in the presence of trace quantities of ammonium ions: An RRDE study. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 5202-5207.	3.8	29

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19	Hydrogen sulfide tolerance of palladium-copper catalysts for PEM fuel cell anode applications. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 13703-13707.	3.8	19
20	The effects of hydrogen sulfide on the polymer electrolyte membrane fuel cell anode catalyst: H ₂ S-Pt/C interaction products. <i>Journal of Power Sources</i> , 2011, 196, 6256-6263.	4.0	42
21	The Impact of Impurities on Long-Term PEMFC Performance. <i>ECS Transactions</i> , 2009, 25, 1575-1583.	0.3	25
22	Carbon supported Pt-Pd alloy as an ethanol tolerant oxygen reduction electrocatalyst for direct ethanol fuel cells. <i>International Journal of Hydrogen Energy</i> , 2008, 33, 5563-5570.	3.8	152
23	An overview of platinum-based catalysts as methanol-resistant oxygen reduction materials for direct methanol fuel cells. <i>Journal of Alloys and Compounds</i> , 2008, 461, 253-262.	2.8	245
24	Efeito dos dióxidos de enxofre e de nitrogênio no desempenho de uma célula a combustível de membrana de intercâmbio de prótons. <i>Química Nova</i> , 2008, 31, 551-555.	0.3	5
25	Carbon supported Pt-Co (3:1) alloy as improved cathode electrocatalyst for direct ethanol fuel cells. <i>Journal of Power Sources</i> , 2007, 164, 111-114.	4.0	80