

Santiago Rojas-Carbonell

List of Publications by Year in descending order

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Version: 2024-02-01

17
papers

1,916
citations

687363

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888059

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docs citations

17
times ranked

2350
citing authors

#	ARTICLE	IF	CITATIONS
1	Poly(aryl piperidinium) membranes and ionomers for hydroxide exchange membrane fuel cells. <i>Nature Energy</i> , 2019, 4, 392-398.	39.5	570
2	Chemistry of Multitudinous Active Sites for Oxygen Reduction Reaction in Transition Metal-Nitrogen-Carbon Electrocatalysts. <i>Journal of Physical Chemistry C</i> , 2015, 119, 25917-25928.	3.1	433
3	Effect of pH on the Activity of Platinum Group Metal-Free Catalysts in Oxygen Reduction Reaction. <i>ACS Catalysis</i> , 2018, 8, 3041-3053.	11.2	158
4	High carbonate ion conductance of a robust PiperION membrane allows industrial current density and conversion in a zero-gap carbon dioxide electrolyzer cell. <i>Energy and Environmental Science</i> , 2020, 13, 4098-4105.	30.8	147
5	A family of Fe-N-C oxygen reduction electrocatalysts for microbial fuel cell (MFC) application: Relationships between surface chemistry and performances. <i>Applied Catalysis B: Environmental</i> , 2017, 205, 24-33.	20.2	135
6	Transition metal-nitrogen-carbon catalysts for oxygen reduction reaction in neutral electrolyte. <i>Electrochemistry Communications</i> , 2017, 75, 38-42.	4.7	97
7	Influence of platinum group metal-free catalyst synthesis on microbial fuel cell performance. <i>Journal of Power Sources</i> , 2018, 375, 11-20.	7.8	62
8	Self-feeding paper based biofuel cell/self-powered hybrid 1/4-supercapacitor integrated system. <i>Biosensors and Bioelectronics</i> , 2016, 86, 459-465.	10.1	59
9	Carbon-Based Air-Breathing Cathodes for Microbial Fuel Cells. <i>Catalysts</i> , 2016, 6, 127.	3.5	58
10	Structure-transport relationships of poly(aryl piperidinium) anion-exchange membranes: Effect of anions and hydration. <i>Journal of Membrane Science</i> , 2020, 598, 117680.	8.2	51
11	High-Performance Hydroxide Exchange Membrane Fuel Cells through Optimization of Relative Humidity, Backpressure and Catalyst Selection. <i>Journal of the Electrochemical Society</i> , 2019, 166, F3305-F3310.	2.9	49
12	Correlations between Synthesis and Performance of Fe-Based PGM-Free Catalysts in Acidic and Alkaline Media: Evolution of Surface Chemistry and Morphology. <i>ACS Applied Energy Materials</i> , 2019, 2, 5406-5418.	5.1	44
13	Inhibition of Surface Chemical Moieties by Tris(hydroxymethyl)aminomethane: A Key to Understanding Oxygen Reduction on Iron-Nitrogen-Carbon Catalysts. <i>ACS Applied Energy Materials</i> , 2018, 1, 1942-1949.	5.1	18
14	Ni-La Electrocatalysts for Direct Hydrazine Alkaline Anion-Exchange Membrane Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2014, 161, H3106-H3112.	2.9	12
15	Hybrid electrocatalysts for oxygen reduction reaction: Integrating enzymatic and non-platinum group metal catalysis. <i>Electrochimica Acta</i> , 2016, 190, 504-510.	5.2	12
16	Integration of Platinum Group Metal-Free Catalysts and Bilirubin Oxidase into a Hybrid Material for Oxygen Reduction: Interplay of Chemistry and Morphology. <i>ChemSusChem</i> , 2017, 10, 1534-1542.	6.8	8
17	Standard Operating Protocol for Ion-Exchange Capacity of Anion Exchange Membranes. <i>Frontiers in Energy Research</i> , 2022, 10, .	2.3	3