

Hector Colon-Mercado

List of Publications by Year in descending order

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Version: 2024-02-01

16
papers

888
citations

932766

10
h-index

996533

15
g-index

20
all docs

20
docs citations

20
times ranked

1306
citing authors

#	ARTICLE	IF	CITATIONS
1	Nitrogen-modified carbon-based catalysts for oxygen reduction reaction in polymer electrolyte membrane fuel cells. <i>Journal of Power Sources</i> , 2009, 188, 38-44.	4.0	417
2	Studies on Co-based catalysts supported on modified carbon substrates for PEMFC cathodes. <i>Journal of Power Sources</i> , 2006, 157, 56-63.	4.0	154
3	Bi-functional $\text{Li}_2\text{B}_{12}\text{H}_{12}$ for energy storage and conversion applications: solid-state electrolyte and luminescent down-conversion dye. <i>Journal of Materials Chemistry A</i> , 2015, 3, 22853-22859.	5.2	61
4	Catalyst evaluation for a sulfur dioxide-depolarized electrolyzer. <i>Electrochemistry Communications</i> , 2007, 9, 2649-2653.	2.3	48
5	Li-Driven Electrochemical Conversion Reaction of AlH_3 , LiAlH_4 , and NaAlH_4 . <i>Journal of Physical Chemistry C</i> , 2015, 119, 4666-4674.	1.5	44
6	Laser surface annealing and characterization of Ti_2AlC plasma vapor deposition coating on zirconium-alloy substrate. <i>Thin Solid Films</i> , 2016, 615, 202-209.	0.8	44
7	Electrochemical characterization of cobalt-encapsulated nickel as cathodes for MCFC. <i>Journal of Power Sources</i> , 2002, 104, 157-168.	4.0	31
8	Evaluation of proton-conducting membranes for use in a sulfur dioxide depolarized electrolyzer. <i>Journal of Power Sources</i> , 2010, 195, 2823-2829.	4.0	30
9	Enhanced Performance of Oxygen-Functionalized Multiwalled Carbon Nanotubes as Support for Pt and Pt-Ru Bimetallic Catalysts for Methanol Electrooxidation. <i>ACS Applied Energy Materials</i> , 2020, 3, 5487-5496.	2.5	18
10	Parametric study of operating conditions of an SO_2 -depolarized electrolyzer. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 22408-22418.	3.8	13
11	Communication "On the Lack of Correlation between the Voltammetric Redox Couple and ORR Activity of Fe-N-C Catalysts. <i>Journal of the Electrochemical Society</i> , 2020, 167, 134510.	1.3	7
12	High-performance SO_2 -depolarized electrolysis cell using advanced polymer electrolyte membranes. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 57-68.	3.8	6
13	Stable, high-performing bifunctional electrodes for anion exchange membrane-based unitized regenerative fuel cells. <i>Journal of Power Sources</i> , 2022, 541, 231599.	4.0	5
14	Non-contact electrochemical evaluation of biofilms. <i>SN Applied Sciences</i> , 2020, 2, 1.	1.5	4
15	Electrode optimization for efficient hydrogen production using an SO_2 -depolarized electrolysis cell. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 14180-14185.	3.8	4
16	Development of Stable Pt-Co Cathode Catalysts for PEM Fuel Cells. <i>ECS Transactions</i> , 2007, 11, 1259-1266.	0.3	0