

Cong Yin

List of Publications by Year in descending order

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33
papers

941
citations

430874

18
h-index

454955

30
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33
all docs

33
docs citations

33
times ranked

1134
citing authors

#	ARTICLE	IF	CITATIONS
1	Investigation of proton exchange membrane fuel cell stack with inversely phased wavy flow field design. <i>Applied Energy</i> , 2022, 305, 117893.	10.1	37
2	Prediction and parametric analysis of bubble humidifier performance in a polymer electrolyte membrane fuel cell test system by response surface methodology. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2022, 44, 3497-3508.	2.3	1
3	Adaptive control of oxygen excess ratio in a proton exchange membrane fuel cell system. <i>Energy Reports</i> , 2022, 8, 328-335.	5.1	2
4	Study of internal performance of commercial-size fuel cell stack with 3D multi-physical model and high resolution current mapping. <i>Applied Energy</i> , 2022, 323, 119567.	10.1	25
5	Experimental and modeling study on dynamic characteristics of a 65kW dual-stack proton exchange membrane fuel cell system during start-up operation. <i>Journal of Power Sources</i> , 2021, 481, 229115.	7.8	16
6	Experimental Investigation on Local Behaviors of PEMFC with Segmented Cell. <i>Automotive Innovation</i> , 2021, 4, 165.	5.1	3
7	Design and numerical analysis of air-cooled proton exchange membrane fuel cell stack for performance optimization. <i>Energy Conversion and Management</i> , 2021, 245, 114604.	9.2	29
8	Prediction of voltage degradation trend for a proton exchange membrane fuel cell city bus on roads. <i>Journal of Power Sources</i> , 2021, 512, 230435.	7.8	14
9	Design and simulation of proton exchange membrane fuel cell system. <i>Energy Reports</i> , 2021, 7, 522-530.	5.1	2
10	PEMFC water management fault diagnosis method based on principal component analysis and support vector data description. , 2021, , .		0
11	Study of internal multi-parameter distributions of proton exchange membrane fuel cell with segmented cell device and coupled three-dimensional model. <i>Renewable Energy</i> , 2020, 147, 650-662.	8.9	40
12	Electrochemical CO ₂ reduction in confined space: Enhanced activity of metal catalysts by graphene overlayer. <i>International Journal of Energy Research</i> , 2020, 44, 784-794.	4.5	9
13	Review of System Integration and Control of Proton Exchange Membrane Fuel Cells. <i>Electrochemical Energy Reviews</i> , 2020, 3, 466-505.	25.5	109
14	Cu Doped Crystalline Carbon-Conjugated g-C ₃ N ₄ , a Promising Oxygen Reduction Catalyst by Theoretical Study. <i>Journal of the Electrochemical Society</i> , 2019, 166, F755-F759.	2.9	14
15	Improved Oxygen Reduction Activity in Heteronuclear FeCo-Codoped Graphene: A Theoretical Study. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 17273-17281.	6.7	56
16	Three dimensional multi-physical modeling study of interdigitated flow field in porous electrode for vanadium redox flow battery. <i>Journal of Power Sources</i> , 2019, 438, 227023.	7.8	39
17	Design of high efficient oxygen reduction catalyst from the transition metal dimer phthalocyanine monolayer. <i>Applied Surface Science</i> , 2019, 480, 905-911.	6.1	12
18	RuN ₄ Doped Graphene Oxide, a Highly Efficient Bifunctional Catalyst for Oxygen Reduction and CO ₂ Reduction from Computational Study. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 8136-8144.	6.7	29

#	ARTICLE	IF	CITATIONS
19	Theoretical insights on the oxygen-reduction reaction mechanism of LaN ₄ -embedded graphene. Journal of Molecular Modeling, 2018, 24, 14.	1.8	5
20	Theoretical insight into the catalytic activities of oxygen reduction reaction on transition metal N ₄ doped graphene. New Journal of Chemistry, 2018, 42, 9620-9625.	2.8	21
21	A combined theoretical and experimental study on the oxygenated graphitic carbon nitride as a promising sulfur host for lithium-sulfur batteries. Journal of Power Sources, 2018, 373, 31-39.	7.8	26
22	The oxygen reduction reaction mechanism on Sn doped graphene as an electrocatalyst in fuel cells: a DFT study. RSC Advances, 2017, 7, 729-734.	3.6	27
23	CoN ₃ embedded graphene, a potential catalyst for the oxygen reduction reaction from a theoretical perspective. Physical Chemistry Chemical Physics, 2017, 19, 17670-17676.	2.8	41
24	Single Pd atoms supported by graphitic carbon nitride, a potential oxygen reduction reaction catalyst from theoretical perspective. Carbon, 2017, 114, 619-627.	10.3	78
25	In situ investigation of heat and water distributions in the PEM fuel cell. , 2017, , .		1
26	A first-principles study on the effect of phosphorus-doped palladium catalyst for formic acid dissociation. Applied Surface Science, 2016, 387, 221-227.	6.1	10
27	Understanding the Formation Mechanism of Two-Dimensional Atomic Islands on Crystal Surfaces by the Condensing Potential Model. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2016, 71, 321-324.	1.5	0
28	DFT Study on the Methane Synthesis from Syngas on a Cerium-Doped Ni(111) Surface. Journal of Physical Chemistry C, 2016, 120, 23030-23043.	3.1	19
29	Dual-site oxygen reduction reaction mechanism on CoN ₄ and CoN ₂ embedded graphene: Theoretical insights. Carbon, 2016, 108, 541-550.	10.3	81
30	In situ investigation of proton exchange membrane fuel cell performance with novel segmented cell design and a two-phase flow model. Energy, 2016, 113, 1071-1089.	8.8	23
31	Numerical and experimental studies of stack shunt current for vanadium redox flow battery. Applied Energy, 2015, 151, 237-248.	10.1	63
32	A coupled three dimensional model of vanadium redox flow battery for flow field designs. Energy, 2014, 74, 886-895.	8.8	96
33	Shape prediction of two-dimensional adatom islands on crystal surfaces during homoepitaxial growth. Applied Physics Letters, 2009, 94, 183107.	3.3	13