Cong Yin

List of Publications by Year
in descending order

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33 papers	941 citations	430874 18 h-index	454955 30 g-index
33 all docs	33 docs citations	33 times ranked	1134 citing authors

#	Article	IF	Citations
1	Review of System Integration and Control of Proton Exchange Membrane Fuel Cells. Electrochemical Energy Reviews, 2020, 3, 466-505.	25.5	109
2	A coupled three dimensional model of vanadium redox flow battery for flow field designs. Energy, 2014, 74, 886-895.	8.8	96
3	Dual-site oxygen reduction reaction mechanism on CoN4 and CoN2 embedded graphene: Theoretical insights. Carbon, 2016, 108, 541-550.	10.3	81
4	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
5	Numerical and experimental studies of stack shunt current for vanadium redox flow battery. Applied Energy, 2015, 151, 237-248.	10.1	63
6	Improved Oxygen Reduction Activity in Heteronuclear FeCo-Codoped Graphene: A Theoretical Study. ACS Sustainable Chemistry and Engineering, 2019, 7, 17273-17281.	6.7	56
7	CoN₃ 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
8	Study of internal multi-parameter distributions of proton exchange membrane fuel cell with segmented cell device and coupled three-dimensional model. Renewable Energy, 2020, 147, 650-662.	8.9	40
9	Three dimensional multi-physical modeling study of interdigitated flow field in porous electrode for vanadium redox flow battery. Journal of Power Sources, 2019, 438, 227023.	7.8	39
10	Investigation of proton exchange membrane fuel cell stack with inversely phased wavy flow field design. Applied Energy, 2022, 305, 117893.	10.1	37
11	RuN₄ Doped Graphene Oxide, a Highly Efficient Bifunctional Catalyst for Oxygen Reduction and CO₂ Reduction from Computational Study. ACS Sustainable Chemistry and Engineering, 2019, 7, 8136-8144.	6.7	29
12	Design and numerical analysis of air-cooled proton exchange membrane fuel cell stack for performance optimization. Energy Conversion and Management, 2021, 245, 114604.	9.2	29
13	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
14	A combined theoretical and experimental study on the oxygenated graphitic carbon nitride as a promising sulfur host for lithiumâ€“sulfur batteries. Journal of Power Sources, 2018, 373, 31-39.	7.8	26
15	Study of internal performance of commercial-size fuel cell stack with 3D multi-physical model and high resolution current mapping. Applied Energy, 2022, 323, 119567.	10.1	25
16	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
17	Theoretical insight into the catalytic activities of oxygen reduction reaction on transition metalâ€“N₄ doped graphene. New Journal of Chemistry, 2018, 42, 9620-9625.	2.8	21
18	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

#	Article	IF	Citations
19	Experimental and modeling study on dynamic characteristics of a 65ÂkW dual-stack proton exchange membrane fuel cell system during start-up operation. Journal of Power Sources, 2021, 481, 229115.	7.8	16
20	Cu Doped Crystalline Carbon-Conjugated g-C₃N₄, a Promising Oxygen Reduction Catalyst by Theoretical Study. Journal of the Electrochemical Society, 2019, 166, F755-F759.	2.9	14
21	Prediction of voltage degradation trend for a proton exchange membrane fuel cell city bus on roads. Journal of Power Sources, 2021, 512, 230435.	7.8	14
22	Shape prediction of two-dimensional adatom islands on crystal surfaces during homoepitaxial growth. Applied Physics Letters, 2009, 94, 183107.	3.3	13
23	Design of high efficient oxygen reduction catalyst from the transition metal dimer phthalocyanine monolayer. Applied Surface Science, 2019, 480, 905-911.	6.1	12
24	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
25	Electrochemical CO ₂ reduction in confined space: Enhanced activity of metal catalysts by graphene overlayer. International Journal of Energy Research, 2020, 44, 784-794.	4.5	9
26	Theoretical insights on the oxygen-reduction reaction mechanism of LaN4-embedded graphene. Journal of Molecular Modeling, 2018, 24, 14.	1.8	5
27	Experimental Investigation on Local Behaviors of PEMFC with Segmented Cell. Automotive Innovation, 2021, 4, 165.	5.1	3
28	Design and simulation of proton exchange membrane fuel cell system. Energy Reports, 2021, 7, 522-530.	5.1	2
29	Adaptive control of oxygen excess ratio in a proton exchange membrane fuel cell system. Energy Reports, 2022, 8, 328-335.	5.1	2
30	In situ investigation of heat and water distributions in the PEM fuel cell. , 2017, , .		1
31	Prediction and parametric analysis of bubble humidifier performance in a polymer electrolyte membrane fuel cell test system by response surface methodology. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2022, 44, 3497-3508.	2.3	1
32	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
33	PEMFC water management fault diagnosis method based on principal component analysis and support vector data description. , 2021, , .		0