Cheng

List of Publications by Year
in descending order

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Version: 2024-02-01

29	685	687220 13	552653 26
papers	citations	h-index	g-index

29	29	29	990
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	How do the finite-size particles modify the drag in Taylorâ€“Couette turbulent flow. Journal of Fluid Mechanics, 2022, 937, .	1.4	7
2	Dynamics of finite-size spheroids in turbulent flow: the roles of flow structures and particle boundary layers. Journal of Fluid Mechanics, 2022, 939, .	1.4	1
3	A mass-producible integrative structure Pt alloy oxygen reduction catalyst synthesized with atomically dispersive metal-organic framework precursors. Journal of Colloid and Interface Science, 2021, 583, 351-361.	5.0	9
4	Recent advances in Pt-based electrocatalysts for PEMFCs. RSC Advances, 2021, 11, 13316-13328.	1.7	36
5	An ultra-dispersive, nonprecious metal MOFâ€“FeZn catalyst with good oxygen reduction activity and favorable stability in acid. Journal of Materials Science, 2021, 56, 8600-8612.	1.7	3
6	Lagrangian dynamics and heat transfer in porous-media convection. Journal of Fluid Mechanics, 2021, 917, .	1.4	4
7	An experimental research on the net output power and current density distribution of <scp>PEM</scp> fuel cells with trapezoid baffled flow fields. International Journal of Energy Research, 2021, 45, 21464-21475.	2.2	10
8	Optimization of channel structure for proton exchange membrane fuel cells based on a threeâ€dimensional twoâ€phase flow model. International Journal of Energy Research, 2021, 45, 8794-8809.	2.2	13
9	Heat transfer and flow structure of two-dimensional thermal convection over ratchet surfaces. Journal of Hydrodynamics, 2021, 33, 970-978.	1.3	6
10	One-step microwave-assisted synthesis of carbon-supported ternary Pt-Sn-Rh alloy nanoparticles for fuel cells. Journal of the Taiwan Institute of Chemical Engineers, 2020, 115, 272-278.	2.7	7
11	Synthesis of a high-performance low-platinum PtAg/C alloyed oxygen reduction catalyst through the gradual reduction method. New Journal of Chemistry, 2020, 44, 3728-3736.	1.4	15
12	H 2 â€induced thermal treatment significantly influences the development of a high performance lowâ€platinum coreâ€shell PtNi/C alloyed oxygen reduction catalyst. International Journal of Energy Research, 2020, 44, 4773-4783.	2.2	11
13	Rapid one-step synthesis of carbon-supported platinumâ€“copper nanoparticles with enhanced electrocatalytic activity via microwave-assisted heating. Journal of Colloid and Interface Science, 2020, 574, 421-429.	5.0	23
14	Degradation characteristics of membrane electrode assembly under drive cycle test protocol. International Journal of Green Energy, 2019, 16, 789-795.	2.1	13
15	Investigation of high-performance IrO2 electrocatalysts prepared by Adams method. International Journal of Hydrogen Energy, 2018, 43, 19460-19467.	3.8	37
16	Porous anode of lithiumâ€“oxygen battery based on double-gas-path structure. International Journal of Hydrogen Energy, 2017, 42, 29944-29948.	3.8	14
17	Gradient design of Pt/C ratio and Nafion content in cathode catalyst layer of PEMFCs. International Journal of Hydrogen Energy, 2017, 42, 29960-29965.	3.8	63
18	Recent Progress on the Key Materials and Components for Proton Exchange Membrane Fuel Cells in Vehicle Applications. Energies, 2016, 9, 603.	1.6	64

#	Article	IF	Citations
19	Degradation study of Membrane Electrode Assembly with PTFE/Nafion composite membrane utilizing accelerated stress technique. International Journal of Hydrogen Energy, 2016, 41, 16212-16219.	3.8	14
20	Synthesis of Fe nanoparticles on polyaniline covered carbon nanotubes for oxygen reduction reaction. Journal of Power Sources, 2014, 272, 661-671.	4.0	42
21	A new cathode structure for air-breathing DMFCs operated with pure methanol. International Journal of Hydrogen Energy, 2014, 39, 13751-13756.	3.8	9
22	Preparation and characterization of La0.9Sr0.1Ga0.8Mg0.2O2.85â€“(Li/Na)2CO3 composite electrolytes. International Journal of Hydrogen Energy, 2013, 38, 11085-11089.	3.8	12
23	Preparation of high-capacity air electrode for lithium-air batteries. International Journal of Hydrogen Energy, 2012, 37, 12725-12730.	3.8	43
24	Investigation of anode flow field for direct dimethyl ether fuel cell. International Journal of Hydrogen Energy, 2012, 37, 12605-12608.	3.8	9
25	The effects of pinholes on proton exchange membrane fuel cell performance. International Journal of Energy Research, 2011, 35, 24-30.	2.2	36
26	Composite electrolyte based on nanostructured Ce_{0.8}Sm_{0.2}O_{1.9}(SDC) for low-temperature solid oxide fuel cells. International Journal of Energy Research, 2009, 33, 1138-1144.	2.2	25
27	Effects of Cocatalyst and Calcination Temperature on Photocatalytic Hydrogen Evolution Over BaTi4O9 Powder Synthesized by the Polymerized Complex Method. Catalysis Letters, 2008, 123, 282-288.	1.4	11
28	Nanowireâ€Based Highâ€Performance â€œMicro Fuel Cellsâ€• One Nanowire, One Fuel Cell. Advanced Materials, 2008, 20, 1644-1648.	11.1	126
29	Enhanced Photocatalytic Hydrogen Evolution Over CaTi1â^'x Zr x O3 Composites Synthesized by Polymerized Complex Method. Catalysis Letters, 2007, 119, 148-153.	1.4	22