Qixing Wu

List of Publications by Year
in descending order

60 papers	2,522 citations	147801 31 h-index	197818 49 g-index
61 all docs	61 docs citations	61 times ranked	2681 citing authors

#	Article	IF	Citations
1	Performance of a direct ethylene glycol fuel cell with anÂanion-exchange membrane. International Journal of Hydrogen Energy, 2010, 35, 4329-4335.	7.1	137
2	Alkaline direct oxidation fuel cell with non-platinum catalysts capable of converting glucose to electricity at high power output. Journal of Power Sources, 2011, 196, 186-190.	7.8	128
3	A comparative study on three types of solar utilization technologies for buildings: Photovoltaic, solar thermal and hybrid photovoltaic/thermal systems. Energy Conversion and Management, 2017, 140, 1-13.	9.2	113
4	High-absorption recyclable photothermal membranes used in a bionic system for high-efficiency solar desalination via enhanced localized heating. Journal of Materials Chemistry A, 2017, 5, 20044-20052.	10.3	108
5	A high-absorption and self-driven salt-resistant black gold nanoparticle-deposited sponge for highly efficient, salt-free, and long-term durable solar desalination. Journal of Materials Chemistry A, 2019, 7, 2581-2588.	10.3	103
6	A novel direct ethanol fuel cell with high power density. Journal of Power Sources, 2011, 196, 6219-6222.	7.8	99
7	Towards operating direct methanol fuel cells with highly concentrated fuel. Journal of Power Sources, 2010, 195, 3451-3462.	7.8	94
8	An improved thin-film electrode for vanadium redox flow batteries enabled by a dual layered structure. Journal of Power Sources, 2019, 410-411, 152-161.	7.8	91
9	Bio-inspired multiscale-pore-network structured carbon felt with enhanced mass transfer and activity for vanadium redox flow batteries. Journal of Materials Chemistry A, 2018, 6, 20347-20355.	10.3	80
10	Product analysis of the ethanol oxidation reaction on palladium-based catalysts in an anion-exchange membrane fuel cell environment. International Journal of Hydrogen Energy, 2012, 37, 575-582.	7.1	79
11	Comparison of different types of membrane in alkaline direct ethanol fuel cells. International Journal of Hydrogen Energy, 2012, 37, 14536-14542.	7.1	73
12	Recent advances in alkali-doped polybenzimidazole membranes for fuel cell applications. Renewable and Sustainable Energy Reviews, 2018, 89, 168-183.	16.4	71
13	Nano-catalytic layer engraved carbon felt via copper oxide etching for vanadium redox flow batteries. Carbon, 2019, 153, 674-681.	10.3	64
14	Charge carriers in alkaline direct oxidation fuel cells. Energy and Environmental Science, 2012, 5, 7536.	30.8	63
15	Effects of anode microporous layers made of carbon powder and nanotubes on water transport in direct methanol fuel cells. Journal of Power Sources, 2009, 191, 304-311.	7.8	57
16	Densely Populated Bismuth Nanosphere Semiâ€Embedded Carbon Felt for Ultrahighâ€Rate and Stable Vanadium Redox Flow Batteries. Small, 2020, 16, e1907333.	10.0	55
17	Enhancement of water retention in the membrane electrode assembly for direct methanol fuel cells operating with neat methanol. International Journal of Hydrogen Energy, 2010, 35, 10547-10555.	7.1	53
18	Anisotropic liquid metalâ€"elastomer composites. Journal of Materials Chemistry C, 2019, 7, 10166-10172.	5.5	53

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19	A sandwich structured membrane for direct methanol fuel cells operating with neat methanol. Applied Energy, 2013, 106, 301-306.	10.1	52
20	Mutual Conversion of COâ€“CO₂ on a Perovskite Fuel Electrode with Endogenous Alloy Nanoparticles for Reversible Solid Oxide Cells. ACS Applied Materials & Interfaces, 2022, 14, 9138-9150.	8.0	52
21	Binder-free carbon nano-network wrapped carbon felt with optimized heteroatom doping for vanadium redox flow batteries. Journal of Materials Chemistry A, 2019, 7, 25132-25141.	10.3	50
22	A hierarchical micro/mesoporous carbon fiber/sulfur composite for high-performance lithiumâ€“sulfur batteries. RSC Advances, 2016, 6, 37443-37451.	3.6	46
23	Recyclable, weldable, mechanically durable, and programmable liquid metal-elastomer composites. Journal of Materials Chemistry A, 2021, 9, 10953-10965.	10.3	42
24	Hierarchical Mesoporous/Macroporous Co-Doped NiO Nanosheet Arrays as Free-Standing Electrode Materials for Rechargeable Liâ€“O₂ Batteries. ACS Applied Materials & Interfaces, 2019, 11, 44556-44565.	8.0	37
25	A Sn-Fe flow battery with excellent rate and cycle performance. Journal of Power Sources, 2018, 404, 89-95.	7.8	36
26	Effect of the cathode gas diffusion layer on the water transport behavior and the performance of passive direct methanol fuel cells operating with neat methanol. International Journal of Heat and Mass Transfer, 2011, 54, 1132-1143.	4.8	35
27	A dual pore carbon aerogel based air cathode for a highly rechargeable lithium-air battery. Journal of Power Sources, 2014, 272, 1061-1071.	7.8	34
28	Enhancing oxygen reduction performance of oxide-CNT through in-situ generated nanoalloy bridging. Applied Catalysis B: Environmental, 2020, 263, 118297.	20.2	34
29	A microfluidic-structured flow field for passive direct methanol fuel cells operating with highly concentrated fuels. Journal of Micromechanics and Microengineering, 2010, 20, 045014.	2.6	32
30	Effects of design parameters on the performance of passive direct methanol fuel cells fed with concentrated fuel. Electrochimica Acta, 2014, 133, 8-15.	5.2	32
31	High-temperature passive direct methanol fuel cells operating with concentrated fuels. Journal of Power Sources, 2015, 273, 517-521.	7.8	32
32	Characteristics of water transport through the membrane in direct methanol fuel cells operating with neat methanol. International Journal of Hydrogen Energy, 2011, 36, 5644-5654.	7.1	31
33	Improving the performance of a non-aqueous lithium-air battery by defective titanium dioxides with oxygen vacancies. Electrochimica Acta, 2016, 202, 1-7.	5.2	31
34	Modeling of a passive DMFC operating with neat methanol. International Journal of Hydrogen Energy, 2011, 36, 6899-6913.	7.1	30
35	BaZr0.1Co0.4Fe0.4Y0.1O3-SDC composite as quasi-symmetrical electrode for proton conducting solid oxide fuel cells. Ceramics International, 2020, 46, 11811-11818.	4.8	30
36	Hierarchical porous FeCo2O4@Ni as a carbon- and binder-free cathode for lithiumâˆ’oxygen batteries. Journal of Alloys and Compounds, 2019, 780, 107-115.	5.5	28

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37	Performance evaluation of an air-breathing high-temperature proton exchange membrane fuel cell. Applied Energy, 2015, 160, 146-152.	10.1	27
38	Layered Spongy-like O-Doped g-C₃N₄: An Efficient Non-Metal Oxygen Reduction Catalyst for Alkaline Fuel Cells. Journal of the Electrochemical Society, 2017, 164, F354-F363.	2.9	26
39	Porous silicon-aluminium oxide particles functionalized with acid moieties: An innovative filler for enhanced Nafion-based membranes of direct methanol fuel cell. Journal of Power Sources, 2018, 403, 118-126.	7.8	26
40	Single-component slurry based lithium-ion flow battery with 3D current collectors. Journal of Power Sources, 2021, 485, 229319.	7.8	24
41	Effect of water concentration in the anode catalyst layer on the performance of direct methanol fuel cells operating with neat methanol. International Journal of Hydrogen Energy, 2012, 37, 5958-5968.	7.1	22
42	Multi-Scaled Porous Fe-N/C Nanofibrous Catalysts for the Cathode Electrodes of Direct Methanol Fuel Cells. Journal of the Electrochemical Society, 2017, 164, F1556-F1565.	2.9	19
43	Insight into high electrochemical activity of reduced La0Â·3Sr0Â·7Fe0Â·7Ti0Â·3O3 electrode for high temperature CO2 electrolysis. Electrochimica Acta, 2020, 332, 135464.	5.2	19
44	Reduced Co₃O₄ nanowires with abundant oxygen vacancies as an efficient free-standing cathode for Liâ€“O₂ batteries. Catalysis Science and Technology, 2018, 8, 6478-6485.	4.1	18
45	Characterizations of carbonized electrospun mats as diffusion layers for direct methanol fuel cells. Journal of Power Sources, 2020, 448, 227410.	7.8	17
46	PEDOT-PSS coated sulfur/carbon composite on porous carbon papers for high sulfur loading lithiumâ€“sulfur batteries. RSC Advances, 2015, 5, 96862-96869.	3.6	16
47	Ultrathin interfacial modification of Li-rich layered oxide electrode/sulfide solid electrolyte via atomic layer deposition for high electrochemical performance batteries. Nanotechnology, 2020, 31, 454001.	2.6	14
48	Comparative study on performances of a heat-pipe PV/T system and a heat-pipe solar water heating system. International Journal of Green Energy, 2016, 13, 229-240.	3.8	13
49	Elucidating effects of component materials and flow fields on Snâ€“Fe hybrid flow battery performance. Journal of Power Sources, 2020, 450, 227613.	7.8	13
50	Enhancement of oxygen evolution activity of perovskite (La0.8Sr0.2)0.95MnO3-Î´ electrode by Co phase surface modification. Catalysis Today, 2021, 364, 148-156.	4.4	13
51	Understanding CO2 electrochemical reduction kinetics of mixed-conducting cathodes by the electrical conductivity relaxation method. International Journal of Hydrogen Energy, 2021, 46, 9646-9652.	7.1	12
52	Experimental Study of Single Phase Flow in a Closed-Loop Cooling System with Integrated Mini-Channel Heat Sink. Entropy, 2016, 18, 128.	2.2	11
53	A unique hierarchical structure: NiCo₂O₄ nanowire decorated NiO nanosheets as a carbon-free cathode for Liâ€“O₂ battery. Catalysis Science and Technology, 2021, 11, 7632-7639.	4.1	10
54	Study on the Mixed Electrolyte of <i>N</i>,<i>N</i>-Dimethylacetamide/Sulfolane and Its Application in Aprotic Lithiumâ€“Air Batteries. ACS Omega, 2017, 2, 236-242.	3.5	9

#	ARTICLE	IF	CITATIONS
55	Effect of phase purity on dielectric properties of CaCu3+Ti4O12 ceramics. Solid State Sciences, 2013, 24, 58-61.	3.2	8
56	Catalytic performance of a pyrolyzed graphene supported Feâ€“Nâ€“C composite and its application for acid direct methanol fuel cells. RSC Advances, 2016, 6, 90797-90805.	3.6	6
57	Preparation and properties of branched sulfonated poly(arylene ether) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 667 Td (ketone) 2016, 6, 61410-61417.	3.6	6
58	Monte Carlo study of temperature-dependent non-diffusive thermal transport in Si nanowires. Applied Thermal Engineering, 2017, 124, 17-21.	6.0	6
59	RECENT ADVANCES IN UNDERSTANDING OF MASS TRANSFER PHENOMENA IN DIRECT METHANOL FUEL CELLS OPERATING WITH CONCENTRATED FUEL. Frontiers in Heat and Mass Transfer, 2011, 2, .	0.2	1
60	Comparison analysis of vendor managed inventory with consideration of transportation and inventory costs. , 2010, , .		0