

Xinhai Xu

List of Publications by Year in descending order

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57
papers

3,360
citations

201674

27
h-index

189892

50
g-index

58
all docs

58
docs citations

58
times ranked

3482
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermodynamic analyses of a standalone diesel-fueled distributed power generation system based on solid oxide fuel cells. <i>Applied Energy</i> , 2022, 308, 118396.	10.1	18
2	Performance evaluation of high concentration photovoltaic cells cooled by microchannels heat sink with serpentine reentrant microchannels. <i>Applied Energy</i> , 2022, 309, 118478.	10.1	31
3	High-performance solid-state metal-air batteries with an innovative dual-gel electrolyte. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 15024-15034.	7.1	13
4	Spatially resolved electrochemical performance and temperature distribution of a segmented solid oxide fuel cell under various hydrogen dilution ratios and electrical loadings. <i>Journal of Power Sources</i> , 2022, 536, 231477.	7.8	5
5	Experimental study on active cooling for concentrating photovoltaic cells working at high concentration ratios. <i>International Journal of Energy Research</i> , 2021, 45, 10682-10695.	4.5	5
6	Thermo-Electro-Chemo-Mechanical Modeling of Solid Oxide Fuel Cell for Stress and Failure Evolution during Duty Cycle. <i>Journal of the Electrochemical Society</i> , 2021, 168, 044511.	2.9	11
7	Numerical investigation on heat transfer of supercritical CO ₂ in solar receiver tube in high temperature region. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2021, 70, 034401-034401.	0.5	1
8	Development and thermal performance of a vapor chamber with multi-artery reentrant microchannels for high-power LED. <i>Applied Thermal Engineering</i> , 2020, 166, 114686.	6.0	32
9	Experimental investigation on a novel liquid cooling device for a prismatic Li-ion battery module operating at high ambient temperature. <i>Science China Technological Sciences</i> , 2020, 63, 2147-2153.	4.0	7
10	Experimental investigation on hydrogen production by methanol steam reforming in a novel multichannel micro packed bed reformer. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 11024-11034.	7.1	54
11	Numerical investigation of a multichannel reactor for syngas production by methanol steam reforming at various operating conditions. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 14790-14805.	7.1	41
12	Pool boiling performance of 3D-printed reentrant microchannels structures. <i>International Journal of Heat and Mass Transfer</i> , 2020, 156, 119920.	4.8	33
13	Numerical Simulation of Electrical Performance and Distribution of SOFC Stacks With Different Manifold Arrangement. , 2020, , .		1
14	Hot corrosion of different alloys in chloride and carbonate molten-salt mixtures under argon atmosphere. <i>Solar Energy</i> , 2019, 189, 254-267.	6.1	40
15	CFD and experimental analyses of flow distribution uniformity in minichannel reactors with a bifurcation structure manifold. <i>IOP Conference Series: Earth and Environmental Science</i> , 2019, 354, 012045.	0.3	1
16	Experimental and numerical investigation on effects of cathode flow field configurations in an air-breathing high-temperature PEMFC. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 25010-25020.	7.1	37
17	Numerical study of a novel battery thermal management system for a prismatic Li-ion battery module. <i>Energy Procedia</i> , 2019, 158, 4441-4446.	1.8	17
18	Corrosion of alloys in high temperature molten-salt heat transfer fluids with air as the cover gas. <i>Solar Energy</i> , 2019, 191, 435-448.	6.1	24

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19	Numerical study on a water cooling system for prismatic LiFePO ₄ batteries at abused operating conditions. <i>Applied Energy</i> , 2019, 250, 404-412.	10.1	75
20	LCOE Analysis of Tower Concentrating Solar Power Plants Using Different Molten-Salts for Thermal Energy Storage in China. <i>Energies</i> , 2019, 12, 1394.	3.1	35
21	Questions and current understanding about solar chimney power plant: A review. <i>Energy Conversion and Management</i> , 2019, 182, 21-33.	9.2	69
22	Recent developments in phase change materials for energy storage applications: A review. <i>International Journal of Heat and Mass Transfer</i> , 2019, 129, 491-523.	4.8	939
23	Parametric study of cascade latent heat thermal energy storage (CLHTES) system in Concentrated Solar Power (CSP) plants. <i>Journal of the Energy Institute</i> , 2019, 92, 653-664.	5.3	25
24	Thermal Management Techniques for Concentrating Photovoltaic Modules. , 2019, , 247-281.		0
25	Numerical analysis of a multi-channel active cooling system for densely packed concentrating photovoltaic cells. <i>Energy Conversion and Management</i> , 2018, 161, 172-181.	9.2	42
26	Generalized diagrams of energy storage efficiency for latent heat thermal storage system in concentrated solar power plant. <i>Applied Thermal Engineering</i> , 2018, 129, 1595-1603.	6.0	27
27	Innovative Applications of Advanced Solar Thermal Technologies Using Phase Change Materials. <i>International Journal of Photoenergy</i> , 2018, 2018, 1-2.	2.5	1
28	Near-term analysis of a roll-out strategy to introduce fuel cell vehicles and hydrogen stations in Shenzhen China. <i>Applied Energy</i> , 2017, 196, 229-237.	10.1	60
29	CFD analysis of a novel modular manifold with multi-stage channels for uniform air distribution in a fuel cell stack. <i>Applied Thermal Engineering</i> , 2017, 124, 286-293.	6.0	33
30	Quantitative Evaluation of Passive Scalar Flow Mixing – A Review of Recent Developments. <i>ChemBioEng Reviews</i> , 2017, 4, 120-140.	4.4	4
31	Assessment of levelized cost of electricity for a 10-MW solar chimney power plant in Yinchuan China. <i>Energy Conversion and Management</i> , 2017, 152, 176-185.	9.2	31
32	Producing Hydrogen From Jet-A Fuel in a Reactor With Integrated Autothermal Reforming and Water-Gas Shift. , 2017, , .		0
33	Entropy generation and Carnot efficiency comparisons of high temperature heat transfer fluid candidates for CSP plants. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 20316-20323.	7.1	8
34	Hydrogen production via catalytic autothermal reforming of desulfurized Jet-A fuel. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 1932-1941.	7.1	29
35	Review on Copper and Palladium Based Catalysts for Methanol Steam Reforming to Produce Hydrogen. <i>Catalysts</i> , 2017, 7, 183.	3.5	92
36	Parametric analysis of a single basin solar still with a point-focus Fresnel lens in Shenzhen. , 2017, , 81-84.		0

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37	A survey of nickel-based catalysts and monolithic reformers of the onboard fuel reforming system for fuel cell APU applications. <i>International Journal of Energy Research</i> , 2016, 40, 1157-1177.	4.5	12
38	Parametric analysis of a solid oxide fuel cell auxiliary power unit operating on syngas produced by autothermal reforming of hydrocarbon fuels. <i>Journal of Renewable and Sustainable Energy</i> , 2016, 8, .	2.0	7
39	A Short-term Analysis of Hydrogen Demand and Refueling Station Cost in Shenzhen China. <i>Energy Procedia</i> , 2016, 104, 317-322.	1.8	12
40	Comparative life cycle assessment of hydrogen pathways from fossil sources in China. <i>International Journal of Energy Research</i> , 2016, 40, 2105-2116.	4.5	13
41	Current trends and future challenges of electrolytes for sodium-ion batteries. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 2829-2846.	7.1	181
42	Prospects and problems of concentrating solar power technologies for power generation in the desert regions. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 53, 1106-1131.	16.4	156
43	Fuel adaptability study of a lab-scale 2.5ÂkWth autothermal reformer. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 6798-6808.	7.1	27
44	Heat transfer fluids for concentrating solar power systems â€“ A review. <i>Applied Energy</i> , 2015, 146, 383-396.	10.1	645
45	Vapor pressure and corrosivity of ternary metal-chloride molten-salt based heat transfer fluids for use in concentrating solar power systems. <i>Applied Energy</i> , 2015, 159, 206-213.	10.1	126
46	Materials Challenges for Concentrating Solar Power. <i>Nanostructure Science and Technology</i> , 2015, , 127-148.	0.1	1
47	Hydrogen Production of a Heavy Hydrocarbon Fuel Autothermal Reformer on NiO-Rh Based Monolithic Catalysts. , 2014, , .		0
48	Desulfurization of Jet-A fuel in a fixed-bed reactor at room temperature and ambient pressure using a novel selective adsorbent. <i>Fuel</i> , 2014, 117, 499-508.	6.4	39
49	Autothermal reforming of n-dodecane and desulfurized Jet-A fuel for producing hydrogen-rich syngas. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 19593-19602.	7.1	29
50	Adsorptive desulfurization of liquid Jet-A fuel at ambient conditions with an improved adsorbent for on-board fuel treatment for SOFC applications. <i>Fuel Processing Technology</i> , 2014, 124, 140-146.	7.2	26
51	Small-scale reforming of diesel and jet fuels to make hydrogen and syngas for fuel cells: A review. <i>Applied Energy</i> , 2013, 108, 202-217.	10.1	115
52	Equilibrium and kinetics of Jet-A fuel desulfurization by selective adsorption at room temperatures. <i>Fuel</i> , 2013, 111, 172-179.	6.4	39
53	Desulfurization of Liquid Phase Jet-A Fuel by Selective Adsorption at Room Temperature. , 2013, , .		1
54	A novel potential adsorbent for ultra deep desulfurization of jet fuels at room temperature. <i>RSC Advances</i> , 2012, 2, 6155.	3.6	22

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55	Selective adsorption for removing sulfur: a potential ultra-deep desulfurization approach of jet fuels. RSC Advances, 2012, 2, 1700-1711.	3.6	65
56	Solar Thermal Closed-Helium Brayton Cycle With High Temperature Phase-Change Thermal Storage. , 2010, , .		2
57	Effects of initial parameters on the internal-melt ice-on-tube while icing. Journal of Mechanical Science and Technology, 2009, 23, 1808-1812.	1.5	1