

Xinhai Xu

List of Publications by Year in descending order

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Version: 2024-02-01

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	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
2	Heat transfer fluids for concentrating solar power systems – A review. <i>Applied Energy</i> , 2015, 146, 383-396.	10.1	645
3	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
4	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
5	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
6	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
7	Review on Copper and Palladium Based Catalysts for Methanol Steam Reforming to Produce Hydrogen. <i>Catalysts</i> , 2017, 7, 183.	3.5	92
8	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
9	Questions and current understanding about solar chimney power plant: A review. <i>Energy Conversion and Management</i> , 2019, 182, 21-33.	9.2	69
10	Selective adsorption for removing sulfur: a potential ultra-deep desulfurization approach of jet fuels. <i>RSC Advances</i> , 2012, 2, 1700-1711.	3.6	65
11	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
12	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
13	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
14	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
15	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
16	Equilibrium and kinetics of Jet-A fuel desulfurization by selective adsorption at room temperatures. <i>Fuel</i> , 2013, 111, 172-179.	6.4	39
17	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
18	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

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19	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
20	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
21	Pool boiling performance of 3D-printed reentrant microchannels structures. <i>International Journal of Heat and Mass Transfer</i> , 2020, 156, 119920.	4.8	33
22	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
23	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
24	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
25	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
26	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
27	Fuel adaptability study of a lab-scale 2.5ÅkWth autothermal reformer. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 6798-6808.	7.1	27
28	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
29	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
30	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
31	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
32	A novel potential adsorbent for ultra deep desulfurization of jet fuels at room temperature. <i>RSC Advances</i> , 2012, 2, 6155.	3.6	22
33	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
34	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
35	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
36	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

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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. International Journal of Energy Research, 2016, 40, 1157-1177.	4.5	12
38	A Short-term Analysis of Hydrogen Demand and Refueling Station Cost in Shenzhen China. Energy Procedia, 2016, 104, 317-322.	1.8	12
39	Thermo-Electro-Chemo-Mechanical Modeling of Solid Oxide Fuel Cell for Stress and Failure Evolution during Duty Cycle. Journal of the Electrochemical Society, 2021, 168, 044511.	2.9	11
40	Entropy generation and Carnot efficiency comparisons of high temperature heat transfer fluid candidates for CSP plants. International Journal of Hydrogen Energy, 2017, 42, 20316-20323.	7.1	8
41	Parametric analysis of a solid oxide fuel cell auxiliary power unit operating on syngas produced by autothermal reforming of hydrocarbon fuels. Journal of Renewable and Sustainable Energy, 2016, 8, .	2.0	7
42	Experimental investigation on a novel liquid cooling device for a prismatic Li-ion battery module operating at high ambient temperature. Science China Technological Sciences, 2020, 63, 2147-2153.	4.0	7
43	Experimental study on active cooling for concentrating photovoltaic cells working at high concentration ratios. International Journal of Energy Research, 2021, 45, 10682-10695.	4.5	5
44	Spatially resolved electrochemical performance and temperature distribution of a segmented solid oxide fuel cell under various hydrogen dilution ratios and electrical loadings. Journal of Power Sources, 2022, 536, 231477.	7.8	5
45	Quantitative Evaluation of Passive Scalar Flow Mixing – A Review of Recent Developments. ChemBioEng Reviews, 2017, 4, 120-140.	4.4	4
46	Solar Thermal Closed-Helium Brayton Cycle With High Temperature Phase-Change Thermal Storage. , 2010, , .		2
47	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
48	Desulfurization of Liquid Phase Jet-A Fuel by Selective Adsorption at Room Temperature. , 2013, , .		1
49	Materials Challenges for Concentrating Solar Power. Nanostructure Science and Technology, 2015, , 127-148.	0.1	1
50	Innovative Applications of Advanced Solar Thermal Technologies Using Phase Change Materials. International Journal of Photoenergy, 2018, 2018, 1-2.	2.5	1
51	CFD and experimental analyses of flow distribution uniformity in minichannel reactors with a bifurcation structure manifold. IOP Conference Series: Earth and Environmental Science, 2019, 354, 012045.	0.3	1
52	Numerical investigation on heat transfer of supercritical CO ₂ in solar receiver tube in high temperature region. Wuli Xuebao/Acta Physica Sinica, 2021, 70, 034401-034401.	0.5	1
53	Numerical Simulation of Electrical Performance and Distribution of SOFC Stacks With Different Manifold Arrangement. , 2020, , .		1
54	Hydrogen Production of a Heavy Hydrocarbon Fuel Autothermal Reformer on NiO-Rh Based Monolithic Catalysts. , 2014, , .		0

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55	Producing Hydrogen From Jet-A Fuel in a Reactor With Integrated Autothermal Reforming and Water-Gas Shift. , 2017, , .		0
56	Parametric analysis of a single basin solar still with a point-focus Fresnel lens in Shenzhen. , 2017, , 81-84.		0
57	Thermal Management Techniques for Concentrating Photovoltaic Modules. , 2019, , 247-281.		0