Peiwen Li

List of Publications by Year
in descending order

45 papers	1,845 citations	279798 23 h-index	276875 41 g-index
46 all docs	46 docs citations	46 times ranked	1973 citing authors

#	Article	IF	Citations
1	Application of phase change materials for thermal energy storage in concentrated solar thermal power plants: A review to recent developments. Applied Energy, 2015, 160, 286-307.	10.1	516
2	Analysis of Heat Storage and Delivery of a Thermocline Tank Having Solid Filler Material. Journal of Solar Energy Engineering, Transactions of the ASME, 2011, 133, .	1.8	109
3	Survey and evaluation of equations for thermophysical properties of binary/ternary eutectic salts from NaCl, KCl, MgCl2, CaCl2, ZnCl2 for heat transfer and thermal storage fluids in CSP. Solar Energy, 2017, 152, 57-79.	6.1	109
4	Experimental Test of Properties of KClâ€“MgCl2 Eutectic Molten Salt for Heat Transfer and Thermal Storage Fluid in Concentrated Solar Power Systems. Journal of Solar Energy Engineering, Transactions of the ASME, 2018, 140, .	1.8	98
5	Basic properties of eutectic chloride salts NaCl-KCl-ZnCl2 and NaCl-KCl-MgCl2 as HTFs and thermal storage media measured using simultaneous DSC-TGA. Solar Energy, 2018, 162, 431-441.	6.1	74
6	Selective adsorption for removing sulfur: a potential ultra-deep desulfurization approach of jet fuels. RSC Advances, 2012, 2, 1700-1711.	3.6	65
7	General volume sizing strategy for thermal storage system using phase change material for concentrated solar thermal power plant. Applied Energy, 2015, 140, 256-268.	10.1	64
8	Similarity and generalized analysis of efficiencies of thermal energy storage systems. Renewable Energy, 2012, 39, 388-402.	8.9	58
9	Thermal and Transport Properties of NaClâ€“KClâ€“ZnCl2 Eutectic Salts for New Generation High-Temperature Heat-Transfer Fluids. Journal of Solar Energy Engineering, Transactions of the ASME, 2016, 138, .	1.8	55
10	Energy storage is the core of renewable technologies. IEEE Nanotechnology Magazine, 2008, 2, 13-18.	1.3	52
11	Anaerobic co-metabolic biodegradation of tetrabromobisphenol A using a bioelectrochemical system. Journal of Hazardous Materials, 2017, 321, 791-800.	12.4	51
12	Survey of Properties of Key Single and Mixture Halide Salts for Potential Application as High Temperature Heat Transfer Fluids for Concentrated Solar Thermal Power Systems. AIMS Energy, 2014, 2, 133-157.	1.9	50
13	An enthalpy formulation for thermocline with encapsulated PCM thermal storage and benchmark solution using the method of characteristics. International Journal of Heat and Mass Transfer, 2014, 79, 362-377.	4.8	48
14	Desulfurization of Jet-A fuel in a fixed-bed reactor at room temperature and ambient pressure using a novel selective adsorbent. Fuel, 2014, 117, 499-508.	6.4	39
15	Synthesis and conductivity properties of Gd0.8Ca0.2BaCo2O5+Î´ double perovskite by solâ€“gel combustion. Journal of Materials Science: Materials in Electronics, 2015, 26, 9941-9948.	2.2	38
16	The algae raceway integrated design for optimal temperature management. Biomass and Bioenergy, 2012, 46, 702-709.	5.7	37
17	Highly efficient Zr doped-TiO 2 /glass fiber photocatalyst and its performance in formaldehyde removal under visible light. Journal of Environmental Sciences, 2017, 60, 61-69.	6.1	36
18	Thermophysical Properties Experimentally Tested for NaCl-KCl-MgCl2 Eutectic Molten Salt as a Next-Generation High-Temperature Heat Transfer Fluids in Concentrated Solar Power Systems. Journal of Solar Energy Engineering, Transactions of the ASME, 2021, 143, .	1.8	32

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19	Thermal storage using sand saturated by thermal-conductive fluid and comparison with the use of concrete. Journal of Energy Storage, 2017, 13, 85-95.	8.1	31
20	Autothermal reforming of n-dodecane and desulfurized Jet-A fuel for producing hydrogen-rich syngas. International Journal of Hydrogen Energy, 2014, 39, 19593-19602.	7.1	29
21	Hydrogen production via catalytic autothermal reforming of desulfurized Jet-A fuel. International Journal of Hydrogen Energy, 2017, 42, 1932-1941.	7.1	29
22	Study of the flow mixing in a novel ARID raceway for algae production. Renewable Energy, 2014, 62, 249-257.	8.9	28
23	Fuel adaptability study of a lab-scale 2.5ÂkWth autothermal reformer. International Journal of Hydrogen Energy, 2015, 40, 6798-6808.	7.1	27
24	Mesoporous TiO₂â€“SiO₂ adsorbent for ultra-deep desulfurization of organic-S at room temperature and atmospheric pressure. RSC Advances, 2018, 8, 7579-7587.	3.6	23
25	A novel potential adsorbent for ultra deep desulfurization of jet fuels at room temperature. RSC Advances, 2012, 2, 6155.	3.6	22
26	NaCl-induced nickelâ€“cobalt inverse spinel structure for boosting hydrogen evolution from ethyl acetate and water. Journal of Materials Chemistry A, 2019, 7, 1700-1710.	10.3	19
27	Verification of a model of thermal storage incorporated with an extended lumped capacitance method for various solidâ€“fluid structural combinations. Solar Energy, 2014, 105, 71-81.	6.1	16
28	Digital phase diagram and thermophysical properties of KNO 3 -NaNO 3 -Ca(NO 3) 2 ternary system for solar energy storage. Vacuum, 2017, 145, 225-233.	3.5	13
29	Energy Storage Start-up Strategies for Concentrated Solar Power Plants With a Dual-Media Thermal Storage System. Journal of Solar Energy Engineering, Transactions of the ASME, 2015, 137, .	1.8	12
30	Minimum system entropy production as the FOM of high temperature heat transfer fluids for CSP systems. Solar Energy, 2017, 152, 80-90.	6.1	12
31	Key Role of Lanthanum Oxychloride: Promotional Effects of Lanthanum in NiLaO_y/NaCl for Hydrogen Production from Ethyl Acetate and Water. Small, 2018, 14, e1800927.	10.0	12
32	Effects of geometry/dimensions of gas flow channels and operating conditions on high-temperature PEM fuel cells. International Journal of Energy and Environmental Engineering, 2015, 6, 75-89.	2.5	11
33	Evaluation of flow mixing in an ARID-HV algal raceway using statistics of temporal and spatial distribution of fluid particles. Algal Research, 2015, 9, 27-39.	4.6	6
34	Optimization of Fixed Photovoltaic Panel â€œTiltâ€•Angles for Maximal Energy Harvest Considering Year-Around Sky Coverage Conditions. Journal of Solar Energy Engineering, Transactions of the ASME, 2021, 143, .	1.8	4
35	Experimental Study of Eutectic Molten Salts NaCl/KCl/ZnCl2 Heat Transfer Inside a Smooth Tube for High-Temperature Application. Journal of Solar Energy Engineering, Transactions of the ASME, 2022, 144, .	1.8	4
36	Novel spectral properties for La0.7Ca0.3CrO3 ceramics by Mo6+ doping. Journal of Materials Science: Materials in Electronics, 2016, 27, 2412-2418.	2.2	3

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37	High-efficiency treatment of PTA wastewater using a biogas jet assisted anaerobic fluidized bed reactor. Environmental Technology (United Kingdom), 2019, 40, 1534-1542.	2.2	3
38	Efficient use of waste heat and solar energy: Technologies of cooling, heating, power generation and heat transfer. Frontiers in Energy, 2017, 11, 411-413.	2.3	2
39	A Generic Algorithm for Planning the Year-Round Solar Energy Harvest/Storage to Supply Solar-Based Stable Power. Journal of Solar Energy Engineering, Transactions of the ASME, 2020, 142, .	1.8	2
40	The Benefit of Using Multiple Thin Tanks Versus a Short Big Tank for Thermal Storage in Ceramic-Sphere Packed Bed With Airflow. Journal of Solar Energy Engineering, Transactions of the ASME, 2020, 142, .	1.8	2
41	Assessment of Water Droplet Evaporation Path in a Full Separation MED Desalination System. , 2016, , .		1
42	Distance descending ordering method: An O(n) algorithm for inverting the mass matrix in simulation of macromolecules with long branches. Journal of Computational Physics, 2017, 349, 253-264.	3.8	1
43	Solar Thermalâ€Driven Desalination Pursuing Products of Pure Water and Salts and Leaving Minimum Impact to Environment. , 2017, , .		1
44	An ?(n) framework for internal coordinate molecular dynamics applicable to molecules with arbitrary constraints and geometries. Molecular Simulation, 2020, 46, 362-374.	2.0	0
45	Functionally Graded Composite Electrodes for Advanced Anode-Supported, Intermediate-Temperature SOFC. Ceramic Engineering and Science Proceedings, 0, , 203-214.	0.1	0