

Peiwen Li

List of Publications by Year in descending order

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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	Experimental Study of Eutectic Molten Salts NaCl/KCl/ZnCl ₂ Heat Transfer Inside a Smooth Tube for High-Temperature Application. Journal of Solar Energy Engineering, Transactions of the ASME, 2022, 144, .	1.8	4
2	Thermophysical Properties Experimentally Tested for NaCl-KCl-MgCl ₂ 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
3	Optimization of Fixed Photovoltaic Panel α -Tilt β -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
4	An $\langle i \rangle$ framework for internal coordinate molecular dynamics applicable to molecules with arbitrary constraints and geometries. Molecular Simulation, 2020, 46, 362-374.	2.0	0
5	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
6	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
7	NaCl-induced nickel-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
8	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
9	Basic properties of eutectic chloride salts NaCl-KCl-ZnCl ₂ and NaCl-KCl-MgCl ₂ as HTFs and thermal storage media measured using simultaneous DSC-TGA. Solar Energy, 2018, 162, 431-441.	6.1	74
10	Mesoporous TiO ₂ -SiO ₂ adsorbent for ultra-deep desulfurization of organic-S at room temperature and atmospheric pressure. RSC Advances, 2018, 8, 7579-7587.	3.6	23
11	Experimental Test of Properties of KCl-MgCl ₂ 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
12	Key Role of Lanthanum Oxide: Promotional Effects of Lanthanum in NiLaO _y /NaCl for Hydrogen Production from Ethyl Acetate and Water. Small, 2018, 14, e1800927.	10.0	12
13	Survey and evaluation of equations for thermophysical properties of binary/ternary eutectic salts from NaCl, KCl, MgCl ₂ , CaCl ₂ , ZnCl ₂ for heat transfer and thermal storage fluids in CSP. Solar Energy, 2017, 152, 57-79.	6.1	109
14	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
15	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
16	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
17	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
18	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

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19	Anaerobic co-metabolic biodegradation of tetrabromobisphenol A using a bioelectrochemical system. <i>Journal of Hazardous Materials</i> , 2017, 321, 791-800.	12.4	51
20	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
21	Efficient use of waste heat and solar energy: Technologies of cooling, heating, power generation and heat transfer. <i>Frontiers in Energy</i> , 2017, 11, 411-413.	2.3	2
22	Solar Thermal-Driven Desalination Pursuing Products of Pure Water and Salts and Leaving Minimum Impact to Environment. , 2017, , .		1
23	Assessment of Water Droplet Evaporation Path in a Full Separation MED Desalination System. , 2016, , .		1
24	Thermal and Transport Properties of NaCl-KCl-ZnCl ₂ Eutectic Salts for New Generation High-Temperature Heat-Transfer Fluids. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2016, 138, .	1.8	55
25	Novel spectral properties for La _{0.7} Ca _{0.3} CrO ₃ ceramics by Mo ⁶⁺ doping. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 2412-2418.	2.2	3
26	Energy Storage Start-up Strategies for Concentrated Solar Power Plants With a Dual-Media Thermal Storage System. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2015, 137, .	1.8	12
27	Fuel adaptability study of a lab-scale 2.5 kW _{th} autothermal reformer. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 6798-6808.	7.1	27
28	Evaluation of flow mixing in an ARID-HV algal raceway using statistics of temporal and spatial distribution of fluid particles. <i>Algal Research</i> , 2015, 9, 27-39.	4.6	6
29	Effects of geometry/dimensions of gas flow channels and operating conditions on high-temperature PEM fuel cells. <i>International Journal of Energy and Environmental Engineering</i> , 2015, 6, 75-89.	2.5	11
30	Synthesis and conductivity properties of Gd _{0.8} Ca _{0.2} BaCo ₂ O _{5+δ} double perovskite by sol-gel combustion. <i>Journal of Materials Science: Materials in Electronics</i> , 2015, 26, 9941-9948.	2.2	38
31	Application of phase change materials for thermal energy storage in concentrated solar thermal power plants: A review to recent developments. <i>Applied Energy</i> , 2015, 160, 286-307.	10.1	516
32	General volume sizing strategy for thermal storage system using phase change material for concentrated solar thermal power plant. <i>Applied Energy</i> , 2015, 140, 256-268.	10.1	64
33	Study of the flow mixing in a novel ARID raceway for algae production. <i>Renewable Energy</i> , 2014, 62, 249-257.	8.9	28
34	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
35	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
36	An enthalpy formulation for thermocline with encapsulated PCM thermal storage and benchmark solution using the method of characteristics. <i>International Journal of Heat and Mass Transfer</i> , 2014, 79, 362-377.	4.8	48

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37	Verification of a model of thermal storage incorporated with an extended lumped capacitance method for various solid–fluid structural combinations. <i>Solar Energy</i> , 2014, 105, 71-81.	6.1	16
38	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. <i>AIMS Energy</i> , 2014, 2, 133-157.	1.9	50
39	A novel potential adsorbent for ultra deep desulfurization of jet fuels at room temperature. <i>RSC Advances</i> , 2012, 2, 6155.	3.6	22
40	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
41	The algae raceway integrated design for optimal temperature management. <i>Biomass and Bioenergy</i> , 2012, 46, 702-709.	5.7	37
42	Similarity and generalized analysis of efficiencies of thermal energy storage systems. <i>Renewable Energy</i> , 2012, 39, 388-402.	8.9	58
43	Analysis of Heat Storage and Delivery of a Thermocline Tank Having Solid Filler Material. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2011, 133, .	1.8	109
44	Energy storage is the core of renewable technologies. <i>IEEE Nanotechnology Magazine</i> , 2008, 2, 13-18.	1.3	52
45	Functionally Graded Composite Electrodes for Advanced Anode-Supported, Intermediate-Temperature SOFC. <i>Ceramic Engineering and Science Proceedings</i> , 0, , 203-214.	0.1	0