Zhiwen

List of Publications by Year
in descending order

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20	614	516710 16	752698 20
papers	citations	h-index	g-index

20	20	20	572
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Simulations of heat transfer to solid particles flowing through an array of heated tubes. Solar Energy, 2016, 130, 101-115.	6.1	78
2	A comprehensive modeling method for proton exchange membrane electrolyzer development. International Journal of Hydrogen Energy, 2021, 46, 17627-17643.	7.1	70
3	A conductive heat transfer model for particle flows over immersed surfaces. International Journal of Heat and Mass Transfer, 2015, 89, 1277-1289.	4.8	62
4	Development of Solid Particle Thermal Energy Storage for Concentrating Solar Power Plants that Use Fluidized Bed Technology. Energy Procedia, 2014, 49, 898-907.	1.8	49
5	Development of a Concentrating Solar Power System Using Fluidized-bed Technology for Thermal Energy Conversion and Solid Particles for Thermal Energy Storage. Energy Procedia, 2015, 69, 1349-1359.	1.8	48
6	Modeling the transport processes within multichannel molten carbonate fuel cells. International Journal of Hydrogen Energy, 2003, 28, 85-97.	7.1	32
7	Design analysis of a particle-based thermal energy storage system for concentrating solar power or grid energy storage. Journal of Energy Storage, 2020, 29, 101382.	8.1	31
8	Energy Storage, Renewable Power Generation, and the Grid: NREL Capabilities Help to Develop and Test Energy-Storage Technologies. IEEE Electrification Magazine, 2015, 3, 30-40.	1.8	26
9	Modeling Water Electrolysis in Bipolar Membranes. Journal of the Electrochemical Society, 2020, 167, 114502.	2.9	25
10	Co-located gas turbine/solar thermal hybrid designs for power production. Renewable Energy, 2014, 64, 172-179.	8.9	23
11	Fluidized-bed Technology Enabling the Integration of High Temperature Solar Receiver CSP Systems with Steam and Advanced Power Cycles. Energy Procedia, 2015, 69, 1404-1411.	1.8	23
12	System and technoeconomic analysis of solar thermochemical hydrogen production. Renewable Energy, 2022, 190, 294-308.	8.9	22
13	Flow network analysis application in fuel cells. Journal of Power Sources, 2002, 108, 106-112.	7.8	21
14	Development of softâ€sphere contact models for thermal heat conduction in granular flows. AICHE Journal, 2016, 62, 4526-4535.	3.6	21
15	Mathematical modeling of novel porous transport layer architectures for proton exchange membrane electrolysis cells. International Journal of Hydrogen Energy, 2021, 46, 25341-25354.	7.1	21
16	Modeling of a direct solar receiver reactor for decomposition of sulfuric acid in thermochemical hydrogen production cycles. International Journal of Hydrogen Energy, 2019, 44, 27237-27247.	7.1	17
17	Modeling the performance and faradaic efficiency of solid oxide electrolysis cells using doped barium zirconate perovskite electrolytes. International Journal of Hydrogen Energy, 2021, 46, 11511-11522.	7.1	16
18	A general method to analyze the thermal performance of multi-cavity concentrating solar power receivers. Solar Energy, 2017, 150, 608-618.	6.1	12

#	Article	IF	Citations
19	Predictive performance modeling framework for a novel enclosed particle receiver configuration and application for thermochemical energy storage. Solar Energy, 2018, 166, 409-421.	6.1	12
20	Cost Reduction Through Thermal Management Improvements in Large Scale Carbonate Fuel Cells. ECS Transactions, 2007, 5, 571-577.	0.5	5