

Mehdi Jafarian

List of Publications by Year in descending order

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Version: 2024-02-01

31
papers

796
citations

430442

18
h-index

500791

28
g-index

31
all docs

31
docs citations

31
times ranked

710
citing authors

#	ARTICLE	IF	CITATIONS
1	Techno-economic assessment of solid-gas thermochemical energy storage systems for solar thermal power applications. <i>Energy</i> , 2018, 149, 473-484.	4.5	177
2	A hybrid solar and chemical looping combustion system for solar thermal energy storage. <i>Applied Energy</i> , 2013, 103, 671-678.	5.1	63
3	The relative performance of alternative oxygen carriers for liquid chemical looping combustion and gasification. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 16396-16407.	3.8	40
4	Preliminary evaluation of a novel solar bubble receiver for heating a gas. <i>Solar Energy</i> , 2019, 182, 264-277.	2.9	38
5	The energetic performance of a novel hybrid solar thermal & chemical looping combustion plant. <i>Applied Energy</i> , 2014, 132, 74-85.	5.1	36
6	Thermodynamic potential of molten copper oxide for high temperature solar energy storage and oxygen production. <i>Applied Energy</i> , 2017, 201, 69-83.	5.1	36
7	A hybrid solar chemical looping combustion system with a high solar share. <i>Applied Energy</i> , 2014, 126, 69-77.	5.1	33
8	High temperature solar thermochemical process for production of stored energy and oxygen based on CuO/Cu ₂ O redox reactions. <i>Solar Energy</i> , 2017, 153, 1-10.	2.9	31
9	An investigation into the effect of aspect ratio on the heat loss from a solar cavity receiver. <i>Solar Energy</i> , 2017, 149, 20-31.	2.9	28
10	Investigation of cooling load reduction in buildings by passive cooling options applied on roof. <i>Energy and Buildings</i> , 2015, 109, 135-142.	3.1	26
11	Effects of steam on the kinetics of calcium carbonate calcination. <i>Chemical Engineering Science</i> , 2021, 246, 116987.	1.9	25
12	Comparing the thermodynamic potential of alternative liquid metal oxides for the storage of solar thermal energy. <i>Solar Energy</i> , 2017, 157, 251-258.	2.9	25
13	Thermodynamic potential of high temperature chemical looping combustion with molten iron oxide as the oxygen carrier. <i>Chemical Engineering Research and Design</i> , 2017, 120, 69-81.	2.7	24
14	Thermal performance of vortex-based solar particle receivers for sensible heating. <i>Solar Energy</i> , 2019, 177, 163-177.	2.9	24
15	Thermal Management Systems and Waste Heat Recycling by Thermoelectric Generators—An Overview. <i>Energies</i> , 2021, 14, 5646.	1.6	23
16	Influence of the Type of Oxygen Carriers on the Performance of a Hybrid Solar Chemical Looping Combustion System. <i>Energy & Fuels</i> , 2014, 28, 2914-2924.	2.5	20
17	Experimental investigation of the effects of wind speed and yaw angle on heat losses from a heated cavity. <i>Solar Energy</i> , 2018, 165, 178-188.	2.9	20
18	The influence of high intensity solar radiation on the temperature and reduction of an oxygen carrier particle in hybrid chemical looping combustion. <i>Chemical Engineering Science</i> , 2013, 95, 331-342.	1.9	18

#	ARTICLE	IF	CITATIONS
19	Thermogravimetric analysis of Cu, Mn, Co, and Pb oxides for thermochemical energy storage. Journal of Energy Storage, 2019, 23, 138-147.	3.9	17
20	The influence of wall temperature distribution on the mixed convective losses from a heated cavity. Applied Thermal Engineering, 2019, 155, 157-165.	3.0	15
21	The influence of wind speed, aperture ratio and tilt angle on the heat losses from a finely controlled heated cavity for a solar receiver. Renewable Energy, 2019, 143, 1544-1553.	4.3	13
22	Application of Porous Materials for CO2 Reutilization: A Review. Energies, 2022, 15, 63.	1.6	13
23	The energetic performance of a liquid chemical looping cycle with solar thermal energy storage. Energy, 2019, 170, 93-101.	4.5	12
24	Experimental assessment of copper oxide for liquid chemical looping for thermal energy storage. Journal of Energy Storage, 2019, 21, 216-221.	3.9	12
25	Analytical assessment of a novel rotating fluidized bed solar reactor for steam gasification of char particles. Solar Energy, 2016, 140, 113-123.	2.9	8
26	Integration assessment of the hybrid sulphur cycle with a copper production plant. Energy Conversion and Management, 2021, 249, 114832.	4.4	5
27	Particle-scale Investigation of Heat Transfer in Radiation-driven Char Gasification. Chemical Engineering and Technology, 2016, 39, 1903-1911.	0.9	4
28	Numerical investigation of the isothermal flow field and particle deposition behaviour in a rotating fluidized bed solar receiver. Solar Energy, 2019, 182, 348-360.	2.9	4
29	Gas-lift circulation of a liquid between two inter-connected bubble columns. Chemical Engineering Science, 2020, 218, 115574.	1.9	3
30	The rate of bubble growth in a superheated liquid in pool boiling. Heat and Mass Transfer, 2017, 53, 3433-3442.	1.2	2
31	Flow behavior inside a novel rotating fluidized bed for solar gasification of biomass. AIP Conference Proceedings, 2017, , .	0.3	1