

# Mehdi Jafarian

## List of Publications by Year in descending order

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31  
papers

796  
citations

430754

18  
h-index

501076

28  
g-index

31  
all docs

31  
docs citations

31  
times ranked

710  
citing authors

#	ARTICLE	IF	CITATIONS
1	Application of Porous Materials for CO <sub>2</sub> Reutilization: A Review. <i>Energies</i> , 2022, 15, 63.	1.6	13
2	Thermal Management Systems and Waste Heat Recycling by Thermoelectric Generators—An Overview. <i>Energies</i> , 2021, 14, 5646.	1.6	23
3	Effects of steam on the kinetics of calcium carbonate calcination. <i>Chemical Engineering Science</i> , 2021, 246, 116987.	1.9	25
4	Integration assessment of the hybrid sulphur cycle with a copper production plant. <i>Energy Conversion and Management</i> , 2021, 249, 114832.	4.4	5
5	Gas-lift circulation of a liquid between two inter-connected bubble columns. <i>Chemical Engineering Science</i> , 2020, 218, 115574.	1.9	3
6	The influence of wind speed, aperture ratio and tilt angle on the heat losses from a finely controlled heated cavity for a solar receiver. <i>Renewable Energy</i> , 2019, 143, 1544-1553.	4.3	13
7	Thermogravimetric analysis of Cu, Mn, Co, and Pb oxides for thermochemical energy storage. <i>Journal of Energy Storage</i> , 2019, 23, 138-147.	3.9	17
8	Numerical investigation of the isothermal flow field and particle deposition behaviour in a rotating fluidized bed solar receiver. <i>Solar Energy</i> , 2019, 182, 348-360.	2.9	4
9	Preliminary evaluation of a novel solar bubble receiver for heating a gas. <i>Solar Energy</i> , 2019, 182, 264-277.	2.9	38
10	The influence of wall temperature distribution on the mixed convective losses from a heated cavity. <i>Applied Thermal Engineering</i> , 2019, 155, 157-165.	3.0	15
11	The energetic performance of a liquid chemical looping cycle with solar thermal energy storage. <i>Energy</i> , 2019, 170, 93-101.	4.5	12
12	Thermal performance of vortex-based solar particle receivers for sensible heating. <i>Solar Energy</i> , 2019, 177, 163-177.	2.9	24
13	Experimental assessment of copper oxide for liquid chemical looping for thermal energy storage. <i>Journal of Energy Storage</i> , 2019, 21, 216-221.	3.9	12
14	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
15	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
16	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
17	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
18	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

#	ARTICLE	IF	CITATIONS
19	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
20	High temperature solar thermochemical process for production of stored energy and oxygen based on CuO/Cu <sub>2</sub> O redox reactions. <i>Solar Energy</i> , 2017, 153, 1-10.	2.9	31
21	Flow behavior inside a novel rotating fluidized bed for solar gasification of biomass. <i>AIP Conference Proceedings</i> , 2017, , .	0.3	1
22	The rate of bubble growth in a superheated liquid in pool boiling. <i>Heat and Mass Transfer</i> , 2017, 53, 3433-3442.	1.2	2
23	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
24	Analytical assessment of a novel rotating fluidized bed solar reactor for steam gasification of char particles. <i>Solar Energy</i> , 2016, 140, 113-123.	2.9	8
25	Particle-scale Investigation of Heat Transfer in Radiation-driven Char Gasification. <i>Chemical Engineering and Technology</i> , 2016, 39, 1903-1911.	0.9	4
26	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
27	A hybrid solar chemical looping combustion system with a high solar share. <i>Applied Energy</i> , 2014, 126, 69-77.	5.1	33
28	Influence of the Type of Oxygen Carriers on the Performance of a Hybrid Solar Chemical Looping Combustion System. <i>Energy &amp; Fuels</i> , 2014, 28, 2914-2924.	2.5	20
29	The energetic performance of a novel hybrid solar thermal & chemical looping combustion plant. <i>Applied Energy</i> , 2014, 132, 74-85.	5.1	36
30	A hybrid solar and chemical looping combustion system for solar thermal energy storage. <i>Applied Energy</i> , 2013, 103, 671-678.	5.1	63
31	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