

# Yimin Deng

## List of Publications by Year in descending order

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Version: 2024-02-01

29  
papers

922  
citations

567281

15  
h-index

552781

26  
g-index

29  
all docs

29  
docs citations

29  
times ranked

593  
citing authors

#	ARTICLE	IF	CITATIONS
1	Post-combustion carbon capture. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 138, 110490.	16.4	219
2	Reviewing the potential of bio-hydrogen production by fermentation. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 131, 110023.	16.4	159
3	Reviewing the thermo-chemical recycling of waste polyurethane foam. <i>Journal of Environmental Management</i> , 2021, 278, 111527.	7.8	82
4	Particles in a circulation loop for solar energy capture and storage. <i>Particuology</i> , 2019, 43, 149-156.	3.6	50
5	The Direct Reduction of Iron Ore with Hydrogen. <i>Sustainability</i> , 2021, 13, 8866.	3.2	40
6	Prospects and perspectives foster enhanced research on bio-aviation fuels. <i>Journal of Environmental Management</i> , 2020, 274, 111214.	7.8	37
7	The chemical CO <sub>2</sub> capture by carbonation-decarbonation cycles. <i>Journal of Environmental Management</i> , 2020, 260, 110054.	7.8	31
8	Dense upflow fluidized bed (DUFB) solar receivers of high aspect ratio: Different fluidization modes through inserting bubble rupture promoters. <i>Chemical Engineering Journal</i> , 2021, 418, 129376.	12.7	31
9	Flue Gas Desulphurization in Circulating Fluidized Beds. <i>Energies</i> , 2019, 12, 3908.	3.1	29
10	Thermo-chemical water splitting: Selection of priority reversible redox reactions by multi-attribute decision making. <i>Renewable Energy</i> , 2021, 170, 800-810.	8.9	29
11	Advances in rigid porous high temperature filters. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 139, 110713.	16.4	28
12	Hydrogen Production: State of Technology. <i>IOP Conference Series: Earth and Environmental Science</i> , 2020, 544, 012011.	0.3	26
13	Hydrogen-enriched natural gas in a decarbonization perspective. <i>Fuel</i> , 2022, 318, 123680.	6.4	26
14	Sustainable Solar Drying of Brewer's Spent Grains: A Comparison with Conventional Electric Convective Drying. <i>Processes</i> , 2022, 10, 339.	2.8	22
15	High temperature Mn <sub>2</sub> O <sub>3</sub> /Mn <sub>3</sub> O <sub>4</sub> and Co <sub>3</sub> O <sub>4</sub> /CoO systems for thermo-chemical energy storage. <i>Journal of Environmental Management</i> , 2020, 267, 110582.	7.8	21
16	Cleaner and sustainable processes for extracting phenolic compounds from bio-waste. <i>Journal of Environmental Management</i> , 2020, 273, 111154.	7.8	14
17	From end-of-life tires to storable energy carriers. <i>Journal of Environmental Management</i> , 2020, 276, 111318.	7.8	11
18	Biochar from Biomass Slow Pyrolysis. <i>IOP Conference Series: Earth and Environmental Science</i> , 2020, 586, 012001.	0.3	10

#	ARTICLE	IF	CITATIONS
19	<sup>11</sup> C <sup>18</sup> O <sub>2</sub> positron emission imaging reveals the in-situ gas concentration profile as function of time and position in opaque gas-solid contacting systems. <i>Chemical Engineering Journal</i> , 2021, 404, 126507.	12.7	10
20	The Need to Accurately Define and Measure the Properties of Particles. <i>Standards</i> , 2021, 1, 19-38.	1.4	10
21	Reviewing Fundamental CO <sub>2</sub> Adsorption Characteristics of Zeolite and Activated Carbon by <i>In-situ</i> Measurements With Radioactively Labelled CO <sub>2</sub> . <i>Separation and Purification Reviews</i> , 2022, 51, 318-329.	5.5	8
22	The steam-assisted calcination of limestone and dolomite for energy savings and to foster solar calcination processes. <i>Journal of Cleaner Production</i> , 2022, 363, 132640.	9.3	6
23	The "Screening Index" to Select Building-Scale Heating Systems. <i>IOP Conference Series: Earth and Environmental Science</i> , 2020, 586, 012004.	0.3	5
24	Co-Al and Mn-Fe Catalytic Steam Reforming of CH <sub>3</sub> OH to H <sub>2</sub> . <i>IOP Conference Series: Earth and Environmental Science</i> , 2022, 952, 012007.	0.3	5
25	Water Splitting by MnO <sub>x</sub> /Na <sub>2</sub> CO <sub>3</sub> Reversible Redox Reactions. <i>Sustainability</i> , 2022, 14, 7597.	3.2	5
26	Challenges for Design Engineers in Sustainable Engineering. <i>IOP Conference Series: Earth and Environmental Science</i> , 0, 544, 012010.	0.3	3
27	Bio-energy Carriers as Back-up Fuel in Hybrid Solar Power Plants. <i>IOP Conference Series: Earth and Environmental Science</i> , 0, 544, 012012.	0.3	2
28	Fluidized Bed Technology: Challenges and Perspectives. <i>IOP Conference Series: Earth and Environmental Science</i> , 2022, 952, 012010.	0.3	2
29	A new design approach for the established flow region of vertical, dilute-phase pneumatic conveyors. <i>Particuology</i> , 2021, 66, 10-10.	3.6	1