

Huili Zhang

List of Publications by Year in descending order

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48
papers

2,739
citations

331670

21
h-index

214800

47
g-index

48
all docs

48
docs citations

48
times ranked

2649
citing authors

#	ARTICLE	IF	CITATIONS
1	Reviewing Fundamental CO ₂ Adsorption Characteristics of Zeolite and Activated Carbon by <i>In-situ</i> Measurements With Radioactively Labelled CO ₂ . Separation and Purification Reviews, 2022, 51, 318-329.	5.5	8
2	Hydro-deoxygenation at atmospheric pressure converts the phenolic-rich pyrolysis liquid fraction into aromatics. Journal of Environmental Management, 2022, 306, 114429.	7.8	3
3	Fluidized Bed Technology: Challenges and Perspectives. IOP Conference Series: Earth and Environmental Science, 2022, 952, 012010.	0.3	2
4	Adsorption of acid fuch sine dye from wastewater by Mg-ferrite particles. Journal of Environmental Management, 2022, 317, 115427.	7.8	17
5	The steam-assisted calcination of limestone and dolomite for energy savings and to foster solar calcination processes. Journal of Cleaner Production, 2022, 363, 132640.	9.3	6
6	11CO ₂ positron emission imaging reveals the in-situ gas concentration profile as function of time and position in opaque gas-solid contacting systems. Chemical Engineering Journal, 2021, 404, 126507.	12.7	10
7	The Need to Accurately Define and Measure the Properties of Particles. Standards, 2021, 1, 19-38.	1.4	10
8	Experiments support simulations by the NEPTUNE_CFD code in an Upflow Bubbling Fluidized Bed reactor. Chemical Engineering Journal, 2020, 385, 123568.	12.7	13
9	Prospects and perspectives foster enhanced research on bio-aviation fuels. Journal of Environmental Management, 2020, 274, 111214.	7.8	37
10	The “Screening Index” to Select Building-Scale Heating Systems. IOP Conference Series: Earth and Environmental Science, 2020, 586, 012004.	0.3	5
11	Optimization of LiNO ₃ –Mg(OH) ₂ composites as thermo-chemical energy storage materials. Journal of Environmental Management, 2020, 262, 110258.	7.8	21
12	The chemical CO ₂ capture by carbonation-decarbonation cycles. Journal of Environmental Management, 2020, 260, 110054.	7.8	31
13	High temperature Mn ₂ O ₃ /Mn ₃ O ₄ and Co ₃ O ₄ /CoO systems for thermo-chemical energy storage. Journal of Environmental Management, 2020, 267, 110582.	7.8	21
14	Ultrasound-assisted digestate treatment of manure digestate for increased biogas production in small pilot scale anaerobic digesters. Renewable Energy, 2020, 152, 664-673.	8.9	10
15	Particles in a circulation loop for solar energy capture and storage. Particuology, 2019, 43, 149-156.	3.6	50
16	Scale-up considerations of the UBFB solar receiver. AIP Conference Proceedings, 2019, , .	0.4	6
17	The fluidized bed air heat exchanger in a hybrid Brayton-cycle solar power plant. AIP Conference Proceedings, 2019, , .	0.4	4
18	Solar thermal treatment of non-metallic minerals: The potential application of the SOLPART technology. AIP Conference Proceedings, 2019, , .	0.4	11

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19	Adsorption of Congo red dye on Fe ₃ O ₄ nanoparticles. Journal of Environmental Management, 2019, 238, 473-483.	7.8	167
20	Flue Gas Desulphurization in Circulating Fluidized Beds. Energies, 2019, 12, 3908.	3.1	29
21	The use of ultrasound probes to monitor multi-phase behavior in opaque systems. Particuology, 2019, 45, 91-97.	3.6	6
22	Solids Flow in a "Particle-in-Tube" Concentrated Solar Heat Absorber. Industrial & Engineering Chemistry Research, 2019, 58, 4598-4608.	3.7	9
23	An energy-friendly alternative in the large-scale production of soybean oil. Journal of Environmental Management, 2019, 230, 234-244.	7.8	11
24	Towards an energy-friendly and cleaner solvent-extraction of vegetable oil. Journal of Environmental Management, 2018, 217, 196-206.	7.8	24
25	Energy analysis of a particle suspension solar combined cycle power plant. Energy Conversion and Management, 2018, 163, 292-303.	9.2	47
26	Solids mixing in a shallow cross-flow bubbling fluidized bed. Chemical Engineering Science, 2018, 187, 213-222.	3.8	21
27	High-efficiency solar power towers using particle suspensions as heat carrier in the receiver and in the thermal energy storage. Renewable Energy, 2017, 111, 438-446.	8.9	78
28	Bubbling and Slugging of Geldart Group A Powders in Small Diameter Columns. Industrial & Engineering Chemistry Research, 2017, 56, 4136-4144.	3.7	41
29	Experiments support an improved model for particle transport in fluidized beds. Scientific Reports, 2017, 7, 10178.	3.3	21
30	High-efficiency concentrated solar power plants need appropriate materials for high-temperature heat capture, conveying and storage. Energy, 2017, 139, 52-64.	8.8	34
31	Thermochemical Energy Storage for Power Generation on Demand. Energy Technology, 2016, 4, 341-352.	3.8	30
32	Use of Particle Heat Carriers in the Stirling Engine Concept. Energy Technology, 2016, 4, 401-408.	3.8	15
33	Thermal energy storage: Recent developments and practical aspects. Progress in Energy and Combustion Science, 2016, 53, 1-40.	31.2	634
34	Particle circulation loops in solar energy capture and storage: Gas-solid flow and heat transfer considerations. Applied Energy, 2016, 161, 206-224.	10.1	83
35	Powder attrition in gas fluidized beds. Powder Technology, 2016, 287, 1-11.	4.2	43
36	The Voidage in a CFB Riser as Function of Solids Flux and Gas Velocity. Procedia Engineering, 2015, 102, 1112-1122.	1.2	21

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37	Residential Solar PV Planning in Santiago, Chile: Incorporating the PM10 Parameter. Sustainability, 2015, 7, 422-440.	3.2	17
38	Wall-to-Suspension Heat Transfer in a CFB Downcomer. Journal of Powder Technology, 2015, 2015, 1-9.	0.4	2
39	Operation Diagram of Circulating Fluidized Beds (CFBs). Procedia Engineering, 2015, 102, 1092-1103.	1.2	20
40	Thermo-mechanical analysis of copper-encapsulated NaNO ₃ •KNO ₃ . Chemical Engineering Research and Design, 2015, 93, 224-231.	5.6	28
41	Wall-to-Bed Heat Transfer at Minimum Gas-Solid Fluidization. Journal of Powder Technology, 2014, 2014, 1-8.	0.4	4
42	The convection heat transfer coefficient in a Circulating Fluidized Bed (CFB). Advanced Powder Technology, 2014, 25, 710-715.	4.1	28
43	Latent heat storage with tubular-encapsulated phase change materials (PCMs). Energy, 2014, 76, 66-72.	8.8	114
44	The design of cyclonic pre-heaters in suspension cement kilns. International Journal of Sustainable Engineering, 2014, 7, 307-312.	3.5	14
45	Concentrated solar power plants: Review and design methodology. Renewable and Sustainable Energy Reviews, 2013, 22, 466-481.	16.4	839
46	Circulating fluidized bed heat recovery/storage and its potential to use coated phase-change-material (PCM) particles. Applied Energy, 2013, 109, 505-513.	10.1	59
47	Mixing phenomena in a large-scale fermenter of starch to bio-ethanol. Energy, 2012, 48, 380-391.	8.8	33
48	Bio-energy Carriers as Back-up Fuel in Hybrid Solar Power Plants. IOP Conference Series: Earth and Environmental Science, 0, 544, 012012.	0.3	2