

Huili Zhang

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2929347/publications.pdf>

Version: 2024-02-01

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	Concentrated solar power plants: Review and design methodology. <i>Renewable and Sustainable Energy Reviews</i> , 2013, 22, 466-481.	16.4	839
2	Thermal energy storage: Recent developments and practical aspects. <i>Progress in Energy and Combustion Science</i> , 2016, 53, 1-40.	31.2	634
3	Adsorption of Congo red dye on Fe ₃ O ₄ nanoparticles. <i>Journal of Environmental Management</i> , 2019, 238, 473-483.	7.8	167
4	Latent heat storage with tubular-encapsulated phase change materials (PCMs). <i>Energy</i> , 2014, 76, 66-72.	8.8	114
5	Particle circulation loops in solar energy capture and storage: Gas-solid flow and heat transfer considerations. <i>Applied Energy</i> , 2016, 161, 206-224.	10.1	83
6	High-efficiency solar power towers using particle suspensions as heat carrier in the receiver and in the thermal energy storage. <i>Renewable Energy</i> , 2017, 111, 438-446.	8.9	78
7	Circulating fluidized bed heat recovery/storage and its potential to use coated phase-change-material (PCM) particles. <i>Applied Energy</i> , 2013, 109, 505-513.	10.1	59
8	Particles in a circulation loop for solar energy capture and storage. <i>Particuology</i> , 2019, 43, 149-156.	3.6	50
9	Energy analysis of a particle suspension solar combined cycle power plant. <i>Energy Conversion and Management</i> , 2018, 163, 292-303.	9.2	47
10	Powder attrition in gas fluidized beds. <i>Powder Technology</i> , 2016, 287, 1-11.	4.2	43
11	Bubbling and Slugging of Geldart Group A Powders in Small Diameter Columns. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 4136-4144.	3.7	41
12	Prospects and perspectives foster enhanced research on bio-aviation fuels. <i>Journal of Environmental Management</i> , 2020, 274, 111214.	7.8	37
13	High-efficiency concentrated solar power plants need appropriate materials for high-temperature heat capture, conveying and storage. <i>Energy</i> , 2017, 139, 52-64.	8.8	34
14	Mixing phenomena in a large-scale fermenter of starch to bio-ethanol. <i>Energy</i> , 2012, 48, 380-391.	8.8	33
15	The chemical CO ₂ capture by carbonation-decarbonation cycles. <i>Journal of Environmental Management</i> , 2020, 260, 110054.	7.8	31
16	Thermochemical Energy Storage for Power Generation on Demand. <i>Energy Technology</i> , 2016, 4, 341-352.	3.8	30
17	Flue Gas Desulphurization in Circulating Fluidized Beds. <i>Energies</i> , 2019, 12, 3908.	3.1	29
18	The convection heat transfer coefficient in a Circulating Fluidized Bed (CFB). <i>Advanced Powder Technology</i> , 2014, 25, 710-715.	4.1	28

#	ARTICLE	IF	CITATIONS
19	Thermo-mechanical analysis of copper-encapsulated NaNO ₃ –KNO ₃ . <i>Chemical Engineering Research and Design</i> , 2015, 93, 224-231.	5.6	28
20	Towards an energy-friendly and cleaner solvent-extraction of vegetable oil. <i>Journal of Environmental Management</i> , 2018, 217, 196-206.	7.8	24
21	The Voidage in a CFB Riser as Function of Solids Flux and Gas Velocity. <i>Procedia Engineering</i> , 2015, 102, 1112-1122.	1.2	21
22	Experiments support an improved model for particle transport in fluidized beds. <i>Scientific Reports</i> , 2017, 7, 10178.	3.3	21
23	Solids mixing in a shallow cross-flow bubbling fluidized bed. <i>Chemical Engineering Science</i> , 2018, 187, 213-222.	3.8	21
24	Optimization of LiNO ₃ –Mg(OH) ₂ composites as thermo-chemical energy storage materials. <i>Journal of Environmental Management</i> , 2020, 262, 110258.	7.8	21
25	High temperature Mn ₂ O ₃ /Mn ₃ O ₄ and Co ₃ O ₄ /CoO systems for thermo-chemical energy storage. <i>Journal of Environmental Management</i> , 2020, 267, 110582.	7.8	21
26	Operation Diagram of Circulating Fluidized Beds (CFBs). <i>Procedia Engineering</i> , 2015, 102, 1092-1103.	1.2	20
27	Residential Solar PV Planning in Santiago, Chile: Incorporating the PM ₁₀ Parameter. <i>Sustainability</i> , 2015, 7, 422-440.	3.2	17
28	Adsorption of acid fuch sine dye from wastewater by Mg-ferrite particles. <i>Journal of Environmental Management</i> , 2022, 317, 115427.	7.8	17
29	Use of Particle Heat Carriers in the Stirling Engine Concept. <i>Energy Technology</i> , 2016, 4, 401-408.	3.8	15
30	The design of cyclonic pre-heaters in suspension cement kilns. <i>International Journal of Sustainable Engineering</i> , 2014, 7, 307-312.	3.5	14
31	Experiments support simulations by the NEPTUNE_CFD code in an Upflow Bubbling Fluidized Bed reactor. <i>Chemical Engineering Journal</i> , 2020, 385, 123568.	12.7	13
32	Solar thermal treatment of non-metallic minerals: The potential application of the SOLPART technology. <i>AIP Conference Proceedings</i> , 2019, , .	0.4	11
33	An energy-friendly alternative in the large-scale production of soybean oil. <i>Journal of Environmental Management</i> , 2019, 230, 234-244.	7.8	11
34	¹¹ C ¹⁸ O ₂ 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
35	The Need to Accurately Define and Measure the Properties of Particles. <i>Standards</i> , 2021, 1, 19-38.	1.4	10
36	Ultrasound-assisted digestate treatment of manure digestate for increased biogas production in small pilot scale anaerobic digesters. <i>Renewable Energy</i> , 2020, 152, 664-673.	8.9	10

#	ARTICLE	IF	CITATIONS
37	Solids Flow in a "Particle-in-Tube" Concentrated Solar Heat Absorber. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 4598-4608.	3.7	9
38	Reviewing Fundamental CO ₂ Adsorption Characteristics of Zeolite and Activated Carbon by <i>In-situ</i> Measurements With Radioactively Labelled CO ₂ . <i>Separation and Purification Reviews</i> , 2022, 51, 318-329.	5.5	8
39	Scale-up considerations of the UFBF solar receiver. <i>AIP Conference Proceedings</i> , 2019, , .	0.4	6
40	The use of ultrasound probes to monitor multi-phase behavior in opaque systems. <i>Particuology</i> , 2019, 45, 91-97.	3.6	6
41	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
42	The "Screening Index" to Select Building-Scale Heating Systems. <i>IOP Conference Series: Earth and Environmental Science</i> , 2020, 586, 012004.	0.3	5
43	Wall-to-Bed Heat Transfer at Minimum Gas-Solid Fluidization. <i>Journal of Powder Technology</i> , 2014, 2014, 1-8.	0.4	4
44	The fluidized bed air heat exchanger in a hybrid Brayton-cycle solar power plant. <i>AIP Conference Proceedings</i> , 2019, , .	0.4	4
45	Hydro-deoxygenation at atmospheric pressure converts the phenolic-rich pyrolysis liquid fraction into aromatics. <i>Journal of Environmental Management</i> , 2022, 306, 114429.	7.8	3
46	Wall-to-Suspension Heat Transfer in a CFB Downcomer. <i>Journal of Powder Technology</i> , 2015, 2015, 1-9.	0.4	2
47	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
48	Fluidized Bed Technology: Challenges and Perspectives. <i>IOP Conference Series: Earth and Environmental Science</i> , 2022, 952, 012010.	0.3	2