

Wei Wang

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

963
citations

840776

11
h-index

610901

24
g-index

26
all docs

26
docs citations

26
times ranked

1233
citing authors

#	ARTICLE	IF	CITATIONS
1	Opportunities and challenges in sustainable treatment and resource reuse of sewage sludge: A review. <i>Chemical Engineering Journal</i> , 2018, 337, 616-641.	12.7	510
2	Possible solutions for sludge dewatering in China. <i>Frontiers of Environmental Science and Engineering in China</i> , 2010, 4, 102-107.	0.8	95
3	Biogas production from supernatant of hydrothermally treated municipal sludge by upflow anaerobic sludge blanket reactor. <i>Bioresource Technology</i> , 2011, 102, 9904-9911.	9.6	49
4	Effective Pretreatment of Heavy Metal-Contaminated Biomass Using a Low-Cost Ionic Liquid (Triethylammonium Hydrogen Sulfate): Optimization by Response Surface Methodologyâ€“Box Behnken Design. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 11571-11581.	6.7	38
5	Study on combustion characteristics and the migration of heavy metals during the co-combustion of oil sludge char and microalgae residue. <i>Renewable Energy</i> , 2020, 151, 648-658.	8.9	37
6	Chemical looping combustion: A new low-dioxin energy conversion technology. <i>Journal of Environmental Sciences</i> , 2015, 32, 135-145.	6.1	25
7	The reduction mechanism and kinetics of Fe ₂ O ₃ by hydrogen for chemical-looping hydrogen generation. <i>Journal of Thermal Analysis and Calorimetry</i> , 2017, 129, 1831-1838.	3.6	25
8	The behaviour of multiple reaction fronts during iron (III) oxide reduction in a non-steady state packed bed for chemical looping water splitting. <i>Applied Energy</i> , 2017, 193, 96-111.	10.1	23
9	Combined hydrothermal treatment, pyrolysis, and anaerobic digestion for removal of antibiotic resistance genes and energy recovery from antibiotic fermentation residues. <i>Bioresource Technology</i> , 2021, 337, 125413.	9.6	23
10	Start-up and performance evaluation of upflow anaerobic sludge blanket reactor treating supernatant of hydrothermally treated municipal sludge: Effect of initial organic loading rate. <i>Biochemical Engineering Journal</i> , 2021, 166, 107843.	3.6	13
11	Liquid Metal Shell as an Effective Iron Oxide Modifier for Redox-Based Hydrogen Production at Intermediate Temperatures. <i>ACS Catalysis</i> , 2021, 11, 10228-10238.	11.2	13
12	Stepwise reduction kinetics of iron-based oxygen carriers by CO/CO ₂ mixture gases for chemical looping hydrogen generation. <i>Journal of Material Cycles and Waste Management</i> , 2017, 19, 453-462.	3.0	12
13	Growth and Nutrient Utilization of Green Algae in Batch and Semicontinuous Autotrophic Cultivation Under High CO ₂ Concentration. <i>Applied Biochemistry and Biotechnology</i> , 2019, 188, 836-853.	2.9	12
14	A short-cut chemical looping hydrogen generation system by using iron-based material from steel industry. <i>Chemical Engineering Journal</i> , 2020, 394, 124882.	12.7	12
15	Performance and kinetics of iron-based oxygen carriers reduced by carbon monoxide for chemical looping combustion. <i>Frontiers of Environmental Science and Engineering</i> , 2015, 9, 1130-1138.	6.0	11
16	Bioenergy recovery from landfill gas: A case study in China. <i>Frontiers of Environmental Science and Engineering in China</i> , 2009, 3, 20-31.	0.8	10
17	Hydrothermal treatment enhances the removal of antibiotic resistance genes, dewatering, and biogas production in antibiotic fermentation residues. <i>Journal of Hazardous Materials</i> , 2022, 435, 128901.	12.4	10
18	Analysis of reduction stage of chemical looping packed bed reactor based on the reaction front distribution. <i>Journal of Material Cycles and Waste Management</i> , 2014, 16, 583-590.	3.0	8

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19	Simultaneous CO ₂ capture and H ₂ generation using Fe ₂ O ₃ /Al ₂ O ₃ and Fe ₂ O ₃ /CuO/Al ₂ O ₃ as oxygen carriers in single packed bed reactor via chemical looping process. <i>Frontiers of Environmental Science and Engineering</i> , 2015, 9, 1117-1129.	6.0	8
20	Reactivity of Iron-based Oxygen Carriers Prepared by Wet and Dry Mixing Methods for Hydrogen Production Via Biomass Derived Syngas Chemical Looping. <i>Energy Procedia</i> , 2014, 61, 1650-1654.	1.8	7
21	Excess Properties of and Simultaneous Effects of Important Parameters on CO ₂ Solubility in Binary Mixture of Water-Phosphonium Based-Deep Eutectic Solvents: Response Surface Methodology (RSM) and Taguchi Method. <i>Energy & Fuels</i> , 2022, 36, 1960-1972.	5.1	7
22	Packed Bed Chemical Looping Platform: Design and Operation of 30kWth Pilot Unit. <i>Procedia Environmental Sciences</i> , 2016, 31, 81-90.	1.4	6
23	Renewable hydrogen production from biogas using iron-based chemical looping technology. <i>Chemical Engineering Journal</i> , 2022, 429, 132192.	12.7	5
24	Using High/Low WHSV Value to Uncover the Reaction Behavior between Methane and Iron Oxide in Packed Bed for Chemical Looping Hydrogen Generation Process. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 3301-3309.	3.7	4