

Haiming Wang

List of Publications by Year in descending order

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papers

748
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471477
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docs citations

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times ranked

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#	ARTICLE	IF	CITATIONS
1	Performance and Mechanism of Photocatalytic Toluene Degradation and Catalyst Regeneration by Thermal/UV Treatment. <i>Environmental Science & Technology</i> , 2020, 54, 14465-14473.	10.0	76
2	Experimental and numerical study on effects of deflectors on flow field distribution and desulfurization efficiency in spray towers. <i>Fuel Processing Technology</i> , 2017, 162, 1-12.	7.2	54
3	Photocatalytic removal of low concentration SO ₂ by titanium dioxide. <i>Chemical Engineering Journal</i> , 2016, 292, 199-206.	12.7	39
4	Enhanced photocatalytic oxidation of SO ₂ on TiO ₂ surface by Na ₂ CO ₃ modification. <i>Chemical Engineering Journal</i> , 2018, 350, 89-99.	12.7	37
5	Enhancement of Mass Transfer between Flue Gas and Slurry in the Wet Flue Gas Desulfurization Spray Tower. <i>Energy & Fuels</i> , 2018, 32, 703-712.	5.1	35
6	Experimental Investigation into the Spontaneous Ignition Behavior of Upgraded Coal Products. <i>Energy & Fuels</i> , 2014, 28, 2267-2271.	5.1	32
7	A novel technical route based on wet flue gas desulfurization process for flue gas dehumidification, water and heat recovery. <i>Applied Thermal Engineering</i> , 2020, 171, 115102.	6.0	32
8	Barium aluminate improved iron ore for the chemical looping combustion of syngas. <i>Applied Energy</i> , 2020, 272, 115236.	10.1	29
9	Interaction between SO ₂ and NO in their adsorption and photocatalytic conversion on TiO ₂ . <i>Chemosphere</i> , 2020, 249, 126136.	8.2	27
10	The synergetic particles collection in three different wet flue gas desulfurization towers: A pilot-scale experimental investigation. <i>Fuel Processing Technology</i> , 2018, 179, 344-350.	7.2	26
11	Ba-Al-decorated iron ore as bifunctional oxygen carrier and HCl sorbent for chemical looping combustion of syngas. <i>Combustion and Flame</i> , 2021, 223, 230-242.	5.2	26
12	Time-resolved in-situ IR and DFT study: NH ₃ adsorption and redox cycle of acid site on vanadium-based catalysts for NO abatement via selective catalytic reduction. <i>Chemical Engineering Journal</i> , 2020, 382, 122756.	12.7	24
13	Chemical looping combustion-adsorption of HCl-containing syngas using alkaline-earth coated iron ore composites for simultaneous purification and combustion enhancement. <i>Chemical Engineering Journal</i> , 2021, 417, 129226.	12.7	23
14	Experimental and Density Functional Theory Studies on the Zeolite-Based Fe-Ni-W Trimetallic Catalyst for High-Temperature NO _x Selective Catalytic Reduction: Identification of Active Sites Suppressing Ammonia Over-oxidation. <i>ACS Catalysis</i> , 2021, 11, 1189-1201.	11.2	22
15	Experimental study on the synergetic removal of fine particles by wet flue gas desulfurization tower with a flow pattern control device. <i>Powder Technology</i> , 2019, 343, 122-128.	4.2	21
16	Photocatalytic oxidation of SO ₂ on TiO ₂ and the catalyst deactivation: A kinetic study. <i>Chemical Engineering Journal</i> , 2018, 350, 268-277.	12.7	20
17	Iron ore modified with alkaline earth metals for the chemical looping combustion of municipal solid waste derived syngas. <i>Journal of Cleaner Production</i> , 2021, 282, 124467.	9.3	18
18	Moisture Adsorption Properties of Dried Lignite. <i>Energy & Fuels</i> , 2013, 27, 177-182.	5.1	17

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19	Kinetic modeling for the deactivation of TiO ₂ during the photocatalytic removal of low concentration SO ₂ . <i>Chemical Engineering Journal</i> , 2016, 303, 425-432.	12.7	17
20	Effective H ₂ S control during chemical looping combustion by iron ore modified with alkaline earth metal oxides. <i>Energy</i> , 2021, 218, 119548.	8.8	17
21	Hydrogen production with an auto-thermal MSW steam gasification and direct melting system: A process modeling. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 6508-6518.	7.1	17
22	Optimization of staged combustion in a 600 MWe tangentially fired boiler with wall air injection. <i>Fuel</i> , 2020, 275, 117951.	6.4	16
23	Oxygen carriers from incineration bottom ash for chemical looping combustion of syngas: Effect of composition on combustion efficiency. <i>Chemical Engineering Journal</i> , 2021, 405, 127068.	12.7	16
24	Role of oxygen functional groups in Pb ²⁺ adsorption from aqueous solution on carbonaceous surface: A density functional theory study. <i>Journal of Hazardous Materials</i> , 2021, 405, 124221.	12.4	15
25	Regeneration of sulfur-deactivated TiO ₂ photocatalysts. <i>Applied Catalysis A: General</i> , 2019, 572, 15-23.	4.3	14
26	Dual-functional witherite in improving chemical looping performance of iron ore and simultaneous adsorption of HCl in syngas at high temperature. <i>Chemical Engineering Journal</i> , 2021, 413, 127538.	12.7	14
27	Active centers response to SO ₂ and H ₂ O poisoning over Fe-W-Ni exchanged zeolite for high-temperature NH ₃ -SCR: Experimental and DFT studies. <i>Applied Surface Science</i> , 2021, 570, 151105.	6.1	12
28	Insights into the desulfurization mechanism of low-grade limestone as absorbent induced by particle size. <i>Fuel</i> , 2021, 305, 121444.	6.4	10
29	Experimental Study of the Enhancement of the Selective Noncatalytic Reduction Denitrification Process with Methane and Propane in a Circulating Fluidized Bed. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 7825-7833.	3.7	7
30	Sulfur trioxide removal performance of alkaline sorbents injection in the temperature range 400–705 °C: a pilot-scale study. <i>Journal of Chemical Technology and Biotechnology</i> , 2019, 94, 2382-2388.	3.2	7
31	Development and validation of slagging model for typical coals in drop-tube furnace. <i>Fuel</i> , 2021, 289, 119859.	6.4	5
32	Performance of Fe-Ni-W exchanged zeolite for NO _x reduction with NH ₃ in a lab-scale circulating fluidized bed. <i>Fuel</i> , 2022, 307, 121807.	6.4	5
33	Semidry Desulfurization Process with In Situ Supported Sorbent Preparation. <i>Energy & Fuels</i> , 2017, 31, 4211-4218.	5.1	4
34	Numerical Simulation of Moderate Temperature Desulfurization in Circulating Fluidized Bed Reactor Considering Sorbent Abrasion. <i>Energy & Fuels</i> , 2019, 33, 484-492.	5.1	3
35	Experimental investigation on flue gas purification and gas-liquid multiphase flow in a spraying column with perforated plate. <i>Canadian Journal of Chemical Engineering</i> , 2020, 98, 1059-1068.	1.7	3
36	Experimental Investigation on the Synergetic Removal of SO ₃ , SO ₂ , and Particulate Matter in a Gas-Liquid Flow Pattern-Controlling Column Coupled with Ultrasonic Wave. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 3189-3197.	3.7	3

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37	Aluminum–yttrium oxides supported iron for effective catalytic reforming of toluene: Promotion roles of yttrium. <i>Fuel Processing Technology</i> , 2022, 235, 107344.	7.2	3
38	An empirical model of absorption of nitric oxide with ammoniacal cobalt (II) solutions in a Spray Tower. <i>Chemical Engineering Research and Design</i> , 2019, 148, 240-250.	5.6	1
39	Numerical simulation of fluidized bed coating process considering particle abrasion. <i>Chemical Engineering Journal</i> , 2022, 445, 136632.	12.7	1