

Zhen-bo Wang

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

1,070
citations

361413

20
h-index

454955

30
g-index

60
all docs

60
docs citations

60
times ranked

779
citing authors

#	ARTICLE	IF	CITATIONS
1	Hierarchical porous carbon from hazardous waste oily sludge for all-solid-state flexible supercapacitor. <i>Electrochimica Acta</i> , 2017, 240, 43-52.	5.2	82
2	Experimental Study on Pyrolysis Characteristics of Oil Sludge with a Tube Furnace Reactor. <i>Energy & Fuels</i> , 2017, 31, 8102-8108.	5.1	64
3	A TG-MS study on the coupled pyrolysis and combustion of oil sludge. <i>Thermochimica Acta</i> , 2018, 663, 137-144.	2.7	63
4	Experimental study on catalytic pyrolysis of oil sludge under mild temperature. <i>Science of the Total Environment</i> , 2020, 708, 135039.	8.0	57
5	Study on pyrolysis characteristics of tank oil sludge and pyrolysis char combustion. <i>Chemical Engineering Research and Design</i> , 2018, 135, 30-36.	5.6	46
6	Study on combustion and emission characteristics of microalgae and its extraction residue with TG-MS. <i>Renewable Energy</i> , 2019, 140, 884-894.	8.9	44
7	Study on a nitrogen-doped porous carbon from oil sludge for CO ₂ adsorption. <i>Fuel</i> , 2019, 251, 562-571.	6.4	41
8	Study on the migration characteristics of nitrogen and sulfur during co-combustion of oil sludge char and microalgae residue. <i>Fuel</i> , 2019, 238, 1-9.	6.4	41
9	Manganese oxide/hierarchical porous carbon nanocomposite from oily sludge for high-performance asymmetric supercapacitors. <i>Electrochimica Acta</i> , 2018, 265, 71-77.	5.2	37
10	Hierarchical porous activated biochar derived from marine macroalgae wastes (<i>Enteromorpha</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 29237-29247.	3.6	30
11	Study on migration characteristics of heavy metals during oil sludge incineration. <i>Petroleum Science and Technology</i> , 2018, 36, 469-474.	1.5	29
12	Experimental study on combustion and pollutants emissions of oil sludge blended with microalgae residue. <i>Journal of the Energy Institute</i> , 2018, 91, 877-886.	5.3	29
13	Removal of toxic dyes from aqueous solution using new activated carbon materials developed from oil sludge waste. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 578, 123505.	4.7	27
14	Simulation and experiment of gas-solid flow field in short-contact cyclone reactors. <i>Chemical Engineering Research and Design</i> , 2013, 91, 1768-1776.	5.6	26
15	Application and development of pyrolysis technology in petroleum oily sludge treatment. <i>Environmental Engineering Research</i> , 2021, 26, .	2.5	25
16	Analysis on integrated thermal treatment of oil sludge by Aspen Plus. <i>Waste Management</i> , 2019, 87, 512-524.	7.4	24
17	Study on the Migration Characteristics of Sulfur and Nitrogen during Combustion of Oil Sludge with CaO Additive. <i>Energy & Fuels</i> , 2020, 34, 6124-6135.	5.1	24
18	Mixing and separation of liquid-liquid two-phase in a novel cyclone reactor of isobutane alkylation catalyzed by ionic liquid. <i>Powder Technology</i> , 2017, 316, 289-295.	4.2	23

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19	Flow field in a liquid-liquid cyclone reactor for isobutane alkylation catalyzed by ionic liquid. <i>Chemical Engineering Research and Design</i> , 2017, 125, 282-290.	5.6	22
20	Study on pyrolysis of oil sludge with microalgae residue additive. <i>Canadian Journal of Chemical Engineering</i> , 2018, 96, 1919-1925.	1.7	22
21	Study on migration characteristics of heavy metals during the oil sludge incineration with CaO additive. <i>Chemical Engineering Research and Design</i> , 2021, 166, 55-66.	5.6	20
22	Experimental study on gasification of oil sludge with steam and its char characteristic. <i>Journal of Hazardous Materials</i> , 2021, 416, 125713.	12.4	20
23	Pyrolysis characteristics and products distribution of haematococcus pluvialis microalgae and its extraction residue. <i>Renewable Energy</i> , 2020, 146, 2134-2141.	8.9	19
24	Particles residence time distribution in a gas-solid cyclone reactor using a CFD-DDPM tracer method. <i>Powder Technology</i> , 2020, 364, 205-217.	4.2	19
25	Numerical Analysis of the energy loss mechanism in cavitation flow of a control valve. <i>International Journal of Heat and Mass Transfer</i> , 2021, 174, 121331.	4.8	19
26	CFD simulation and experiment of residence time distribution in short-contact cyclone reactors. <i>Advanced Powder Technology</i> , 2015, 26, 1134-1142.	4.1	17
27	Experimental and Numerical Simulation to Study the Reduction of Welding Residual Stress by Ultrasonic Impact Treatment. <i>Materials</i> , 2020, 13, 837.	2.9	17
28	Phase holdup distribution and dispersion performance in a novel liquid-liquid cyclone reactor of isobutane alkylation catalyzed by ionic liquid. <i>Chemical Engineering Research and Design</i> , 2017, 125, 257-264.	5.6	15
29	Transport hydrodynamics of particles in a gas-solid cyclone reactor using a dense discrete phase model and a particle size segmentation method. <i>Powder Technology</i> , 2019, 354, 696-708.	4.2	14
30	Study on Preparation of an Oil Sludge-Based Carbon Material and Its Adsorption of CO ₂ : Effect of the Blending Ratio of Oil Sludge Pyrolysis Char to KOH and Urea. <i>Energy & Fuels</i> , 2019, 33, 10056-10065.	5.1	13
31	A novel liquid-liquid cyclone reactor for ionic liquid catalyzed isobutane alkylation: Cold model investigation of the dispersed phase droplet size distribution. <i>Separation and Purification Technology</i> , 2019, 209, 375-382.	7.9	12
32	Study on the Migration Characteristics of As, Pb, and Ni during Oily Sludge Incineration with CaO Additive. <i>Energy & Fuels</i> , 2020, 34, 16341-16349.	5.1	12
33	Study on combustion and emission characteristics of chars from low-temperature and fast pyrolysis of coals with TG-MS. <i>Environmental Engineering Research</i> , 2020, 25, 522-528.	2.5	12
34	Analysis of particle trajectories in a quick-contact cyclone reactor using a discrete phase model. <i>Separation Science and Technology</i> , 2018, 53, 928-939.	2.5	10
35	Cold-model investigation of effects of operating parameters and overflow outlet diameter on separation with a liquid-liquid cyclone reactor for isobutane alkylation catalyzed by ionic liquid. <i>Chemical Engineering Research and Design</i> , 2018, 137, 502-509.	5.6	9
36	Pyrolysis performance and kinetic analysis of oily sludge. <i>Journal of Thermal Analysis and Calorimetry</i> , 2022, 147, 4621-4633.	3.6	9

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37	Experimental study on kinetic characteristics of oil sludge gasification. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2021, 16, e2616.	1.5	7
38	Cold model investigation of the effect of dispersed phase inlet on the dispersion uniformity in a liquid-liquid cyclone reactor for ionic liquid-catalyzed isobutene alkylation. <i>Canadian Journal of Chemical Engineering</i> , 2020, 98, 818-828.	1.7	6
39	3D numerical investigation of energy transfer and loss of cavitation flow in perforated plates. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2020, 14, 1095-1105.	3.1	6
40	Numerical investigation of shear flow structure induced by guided vane in a liquid-liquid cyclone reactor. <i>Chemical Engineering and Processing: Process Intensification</i> , 2021, 167, 108521.	3.6	6
41	A dynamic response test rig of a full-scale rotor-journal bearing system. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , 2019, 233, 649-659.	1.8	5
42	Numerical investigation on the coupled mechanisms of bubble breakup in a venturi-type bubble generator. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2022, 16, 229-247.	3.1	5
43	Co-Pyrolysis Characteristics and Kinetic Analysis of Oil Sludge with Different Additives. <i>Journal of Thermal Science</i> , 2021, 30, 1452-1467.	1.9	4
44	Hierarchical Porous Catalytic Pyrolysis Char Derived from Oily Sludge for Enhanced Adsorption. <i>ACS Omega</i> , 2021, 6, 20549-20559.	3.5	4
45	Numerical analysis on drop-drop electrocoalescence behavior under different electric field parameters. <i>Separation Science and Technology</i> , 2022, 57, 2099-2115.	2.5	4
46	Cold model investigation of mixing-separation time distribution in a multi-element process coupled cyclone reactor for ionic liquid-catalyzed isobutane/butene alkylation. <i>RSC Advances</i> , 2019, 9, 28399-28408.	3.6	3
47	Pyrolysis characteristics and products distribution of petroleum sludges. <i>Environmental Technology (United Kingdom)</i> , 2022, 43, 1819-1832.	2.2	3
48	An investigation of the droplet size distributions in a cyclone reactor for liquid-liquid heterogeneous reactions using FBRM and PVM. <i>Canadian Journal of Chemical Engineering</i> , 2020, 98, 1622-1630.	1.7	3
49	Multi-scale resolution and cluster dynamics analysis of a gas-solid cyclone reactor. <i>Powder Technology</i> , 2021, 377, 476-487.	4.2	3
50	Hazardous Petroleum Sludge-Derived Nitrogen and Oxygen Co-Doped Carbon Material with Hierarchical Porous Structure for High-Performance All-Solid-State Supercapacitors. <i>Materials</i> , 2021, 14, 2477.	2.9	3
51	Study on the ecological risk of heavy metals during oily sludge incineration with CaO additive. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2021, 56, 797-803.	1.7	3
52	Nest-Like MnO ₂ Nanowire/Hierarchical Porous Carbon Composite for High-Performance Supercapacitor from Oily Sludge. <i>Nanomaterials</i> , 2021, 11, 2715.	4.1	3
53	Gasification characteristics and kinetic analysis of oily sludge. <i>Journal of Thermal Analysis and Calorimetry</i> , 2022, 147, 10785-10799.	3.6	3
54	Molecular Dynamics Study on Regimes of Head-on Droplet Collision. <i>Langmuir</i> , 2022, 38, 411-421.	3.5	2

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55	Synthesis of nitrogen-doped porous carbon with superior performance as efficient supercapacitor electrodes from hazardous oily sludge waste. <i>Functional Materials Letters</i> , 2019, 12, 1950060.	1.2	1
56	Numerical analysis of hydrodynamic characteristics and interphase coupling in a gas–solid cyclone reactor. <i>Canadian Journal of Chemical Engineering</i> , 2021, 99, 2737-2747.	1.7	1
57	Pyrolysis characteristics and kinetics analysis of oil sludge with CaO additive. <i>Environmental Technology (United Kingdom)</i> , 2022, 43, 4493-4503.	2.2	1
58	Experimental study on the removal of FCCS catalyst particles by the coupling interaction of the electrostatic field and flow field. <i>Petroleum Science and Technology</i> , 2023, 41, 457-476.	1.5	1
59	Combustion characteristics and kinetic analysis of oil sludge with CaO additive. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2021, 56, 937-945.	1.7	0
60	Auxiliary effect of CO ₂ on pyrolysis of oily sludge. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 0, , 1-10.	1.7	0