

# 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	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
2	Pyrolysis characteristics and products distribution of petroleum sludges. <i>Environmental Technology (United Kingdom)</i> , 2022, 43, 1819-1832.	2.2	3
3	Pyrolysis performance and kinetic analysis of oily sludge. <i>Journal of Thermal Analysis and Calorimetry</i> , 2022, 147, 4621-4633.	3.6	9
4	Pyrolysis characteristics and kinetics analysis of oil sludge with CaO additive. <i>Environmental Technology (United Kingdom)</i> , 2022, 43, 4493-4503.	2.2	1
5	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
6	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
7	Gasification characteristics and kinetic analysis of oily sludge. <i>Journal of Thermal Analysis and Calorimetry</i> , 2022, 147, 10785-10799.	3.6	3
8	Molecular Dynamics Study on Regimes of Head-on Droplet Collision. <i>Langmuir</i> , 2022, 38, 411-421.	3.5	2
9	Multi-scale resolution and cluster dynamics analysis of a gas-solid cyclone reactor. <i>Powder Technology</i> , 2021, 377, 476-487.	4.2	3
10	Experimental study on kinetic characteristics of oil sludge gasification. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2021, 16, e2616.	1.5	7
11	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
12	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
13	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
14	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
15	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
16	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
17	Hierarchical Porous Catalytic Pyrolysis Char Derived from Oily Sludge for Enhanced Adsorption. <i>ACS Omega</i> , 2021, 6, 20549-20559.	3.5	4
18	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

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19	Numerical Analysis of the energy loss mechanism in cavitation flow of a control valve. International Journal of Heat and Mass Transfer, 2021, 174, 121331.	4.8	19
20	Numerical investigation of shear flow structure induced by guided vane in a liquid-liquid cyclone reactor. Chemical Engineering and Processing: Process Intensification, 2021, 167, 108521.	3.6	6
21	Application and development of pyrolysis technology in petroleum oily sludge treatment. Environmental Engineering Research, 2021, 26, .	2.5	25
22	Nest-Like MnO <sub>2</sub> Nanowire/Hierarchical Porous Carbon Composite for High-Performance Supercapacitor from Oily Sludge. Nanomaterials, 2021, 11, 2715.	4.1	3
23	Pyrolysis characteristics and products distribution of haematococcus pluvialis microalgae and its extraction residue. Renewable Energy, 2020, 146, 2134-2141.	8.9	19
24	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. Canadian Journal of Chemical Engineering, 2020, 98, 818-828.	1.7	6
25	Particles residence time distribution in a gas-solid cyclone reactor using a CFD-DDPM tracer method. Powder Technology, 2020, 364, 205-217.	4.2	19
26	Experimental study on catalytic pyrolysis of oil sludge under mild temperature. Science of the Total Environment, 2020, 708, 135039.	8.0	57
27	3D numerical investigation of energy transfer and loss of cavitation flow in perforated plates. Engineering Applications of Computational Fluid Mechanics, 2020, 14, 1095-1105.	3.1	6
28	Study on the Migration Characteristics of As, Pb, and Ni during Oily Sludge Incineration with CaO Additive. Energy & Fuels, 2020, 34, 16341-16349.	5.1	12
29	Study on the Migration Characteristics of Sulfur and Nitrogen during Combustion of Oil Sludge with CaO Additive. Energy & Fuels, 2020, 34, 6124-6135.	5.1	24
30	Experimental and Numerical Simulation to Study the Reduction of Welding Residual Stress by Ultrasonic Impact Treatment. Materials, 2020, 13, 837.	2.9	17
31	An investigation of the droplet size distributions in a cyclone reactor for liquid-liquid heterogeneous reactions using FBRM and PVM. Canadian Journal of Chemical Engineering, 2020, 98, 1622-1630.	1.7	3
32	Study on combustion and emission characteristics of chars from low-temperature and fast pyrolysis of coals with TG-MS. Environmental Engineering Research, 2020, 25, 522-528.	2.5	12
33	A novel liquid-liquid cyclone reactor for ionic liquid catalyzed isobutane alkylation: Cold model investigation of the dispersed phase droplet size distribution. Separation and Purification Technology, 2019, 209, 375-382.	7.9	12
34	Synthesis of nitrogen-doped porous carbon with superior performance as efficient supercapacitor electrodes from hazardous oily sludge waste. Functional Materials Letters, 2019, 12, 1950060.	1.2	1
35	Study on Preparation of an Oil Sludge-Based Carbon Material and Its Adsorption of CO <sub>2</sub> : Effect of the Blending Ratio of Oil Sludge Pyrolysis Char to KOH and Urea. Energy & Fuels, 2019, 33, 10056-10065.	5.1	13
36	Removal of toxic dyes from aqueous solution using new activated carbon materials developed from oil sludge waste. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 578, 123505.	4.7	27

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37	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
38	Study on a nitrogen-doped porous carbon from oil sludge for CO <sub>2</sub> adsorption. <i>Fuel</i> , 2019, 251, 562-571.	6.4	41
39	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
40	Analysis on integrated thermal treatment of oil sludge by Aspen Plus. <i>Waste Management</i> , 2019, 87, 512-524.	7.4	24
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	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
43	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
44	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
45	Study on migration characteristics of heavy metals during oil sludge incineration. <i>Petroleum Science and Technology</i> , 2018, 36, 469-474.	1.5	29
46	A TG-MS study on the coupled pyrolysis and combustion of oil sludge. <i>Thermochimica Acta</i> , 2018, 663, 137-144.	2.7	63
47	Study on pyrolysis of oil sludge with microalgae residue additive. <i>Canadian Journal of Chemical Engineering</i> , 2018, 96, 1919-1925.	1.7	22
48	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
49	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
50	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
51	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
52	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
53	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
54	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

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55	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
56	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
57	Experimental Study on Pyrolysis Characteristics of Oil Sludge with a Tube Furnace Reactor. <i>Energy &amp; Fuels</i> , 2017, 31, 8102-8108.	5.1	64
58	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
59	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
60	Auxiliary effect of CO <sub>2</sub> 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