

Zhilin Wu

List of Publications by Year in descending order

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51
papers

1,629
citations

236833

25
h-index

302012

39
g-index

52
all docs

52
docs citations

52
times ranked

1903
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultrasound-assisted oxidative desulfurization of liquid fuels and its industrial application. <i>Ultrasonics Sonochemistry</i> , 2010, 17, 1027-1032.	3.8	96
2	Adsorption of naphthalene from aqueous solution on coal-based activated carbon modified by microwave induction: Microwave power effects. <i>Chemical Engineering and Processing: Process Intensification</i> , 2015, 91, 67-77.	1.8	90
3	Removal of blue-green algae using the hybrid method of hydrodynamic cavitation and ozonation. <i>Journal of Hazardous Materials</i> , 2012, 235-236, 152-158.	6.5	88
4	Sonochemical processes for the degradation of antibiotics in aqueous solutions: A review. <i>Ultrasonics Sonochemistry</i> , 2021, 74, 105566.	3.8	76
5	Degradation of Phenol under Combined Irradiation of Microwaves and Ultrasound. <i>Environmental Science & Technology</i> , 2008, 42, 8083-8087.	4.6	75
6	Preparation of activated carbon from Xinjiang region coal by microwave activation and its application in naphthalene, phenanthrene, and pyrene adsorption. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2015, 53, 160-167.	2.7	69
7	Microwave-induced crystallization of AC/TiO ₂ for improving the performance of rhodamine B dye degradation. <i>Applied Surface Science</i> , 2015, 351, 104-112.	3.1	62
8	Adsorption behaviors of atrazine and Cr(III) onto different activated carbons in single and co-solute systems. <i>Powder Technology</i> , 2018, 329, 207-216.	2.1	54
9	Microwave-assisted modification of activated carbon with ammonia for efficient pyrene adsorption. <i>Journal of Industrial and Engineering Chemistry</i> , 2016, 39, 27-36.	2.9	52
10	Roles of Hydrophobicity and Volatility of Organic Substrates on Sonolytic Kinetics in Aqueous Solutions. <i>Journal of Physical Chemistry A</i> , 2005, 109, 6521-6526.	1.1	49
11	Enhanced PAHs adsorption using iron-modified coal-based activated carbon via microwave radiation. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2016, 64, 235-243.	2.7	49
12	Enhanced effect of suction-cavitation on the ozonation of phenol. <i>Journal of Hazardous Materials</i> , 2011, 190, 375-380.	6.5	44
13	Sonozonation (sonication/ozonation) for the degradation of organic contaminants – A review. <i>Ultrasonics Sonochemistry</i> , 2020, 68, 105195.	3.8	44
14	Roles of vegetation, flow type and filled depth on livestock wastewater treatment through multi-level mineralized refuse-based constructed wetlands. <i>Ecological Engineering</i> , 2012, 39, 7-15.	1.6	42
15	Surfactants-assisted preparation of BiVO ₄ with novel morphologies via microwave method and CdS decoration for enhanced photocatalytic properties. <i>Journal of Hazardous Materials</i> , 2020, 387, 122019.	6.5	39
16	Harnessing cavitation effects for green process intensification. <i>Ultrasonics Sonochemistry</i> , 2019, 52, 530-546.	3.8	37
17	Effects of Ultrasound and Microwaves on Selective Reduction: Catalyst Preparation and Reactions. <i>ChemCatChem</i> , 2014, 6, 2762-2783.	1.8	36
18	Oxidative degradation of chlorophenol derivatives promoted by microwaves or power ultrasound: a mechanism investigation. <i>Environmental Science and Pollution Research</i> , 2010, 17, 674-687.	2.7	34

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19	Effects of ultrasonic and hydrodynamic cavitation on the treatment of cork wastewater by flocculation and Fenton processes. <i>Ultrasonics Sonochemistry</i> , 2018, 40, 3-8.	3.8	32
20	Microwave-Assisted Synthesis of Carbon-Based (N, Fe)-Codoped TiO ₂ for the Photocatalytic Degradation of Formaldehyde. <i>Nanoscale Research Letters</i> , 2015, 10, 360.	3.1	31
21	Plant and Biomass Extraction and Valorisation under Hydrodynamic Cavitation. <i>Processes</i> , 2019, 7, 965.	1.3	30
22	Adsorption behavior of phenanthrene onto coal-based activated carbon prepared by microwave activation. <i>Korean Journal of Chemical Engineering</i> , 2015, 32, 1129-1136.	1.2	28
23	Microwave-assisted one-step preparation of macadamia nut shell-based activated carbon for efficient adsorption of Reactive Blue. <i>New Journal of Chemistry</i> , 2017, 41, 15373-15383.	1.4	28
24	A novel hybrid of β -cyclodextrin grafted onto activated carbon for rapid adsorption of naphthalene from aqueous solution. <i>Journal of Molecular Liquids</i> , 2018, 255, 160-167.	2.3	28
25	Ultrasound and Microwave-Assisted Preparation of Lead-Free Palladium Catalysts: Effects on the Kinetics of Diphenylacetylene Semi-Hydrogenation. <i>ChemCatChem</i> , 2015, 7, 952-959.	1.8	27
26	Ultrasonic Cleavage of Thioethers. <i>Journal of Physical Chemistry A</i> , 2005, 109, 3762-3766.	1.1	25
27	Cork wastewater purification in a cooperative flocculation/adsorption process with microwave-regenerated activated carbon. <i>Journal of Hazardous Materials</i> , 2018, 360, 412-419.	6.5	25
28	Microwave-assisted rapid synthesis of Ag- β -cyclodextrin/TiO ₂ /AC with exposed {001} facets for highly efficient naphthalene degradation under visible light. <i>Catalysis Communications</i> , 2018, 104, 96-100.	1.6	23
29	Phosphorus removal from aqueous solutions using a synthesized adsorbent prepared from mineralized refuse and sewage sludge. <i>Environmental Technology (United Kingdom)</i> , 2013, 34, 1489-1496.	1.2	22
30	Comparative study of naphthalene adsorption on activated carbon prepared by microwave-assisted synthesis from different typical coals in Xinjiang. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2016, 59, 563-568.	2.7	22
31	Enhanced adsorption of atrazine on a coal-based activated carbon modified with sodium dodecyl benzene sulfonate under microwave heating. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2017, 77, 257-262.	2.7	22
32	Critical factors in sonochemical degradation of fumaric acid. <i>Ultrasonics Sonochemistry</i> , 2015, 27, 148-152.	3.8	18
33	Decomposition of chloroform and succinic acid by ozonation in a suction-cavitation system: Effects of gas flow. <i>Separation and Purification Technology</i> , 2016, 161, 25-31.	3.9	18
34	Sonochemical preparation of alumina-spheres loaded with Pd nanoparticles for 2-butyne-1,4-diol semi-hydrogenation in a continuous flow microwave reactor. <i>RSC Advances</i> , 2018, 8, 7029-7039.	1.7	18
35	Feasibility and the Mechanism of Desorption of Phenolic Compounds from Activated Carbons. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 12223-12231.	1.8	17
36	Oxidation of Primary Aromatic Amines under Irradiation with Ultrasound and/or Microwaves. <i>Synthetic Communications</i> , 2008, 38, 2619-2624.	1.1	16

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37	Chemistry driven by suction. <i>Green Chemistry</i> , 2009, 11, 1026.	4.6	15
38	Selective hydrogenation of alkynes over ppm-level Pd/boehmite/ Al_2O_3 beads in a continuous-flow reactor. <i>Catalysis Science and Technology</i> , 2017, 7, 4780-4791.	2.1	15
39	Aquasonolysis of selected cyclic C ₆ H hydrocarbons. <i>Ultrasonics Sonochemistry</i> , 2004, 11, 187-190.	3.8	14
40	Efficient partial hydrogenation of 2-butyne-1,4-diol and other alkynes under microwave irradiation. <i>Chemical Engineering and Processing: Process Intensification</i> , 2016, 110, 220-224.	1.8	14
41	Ultrasonically improved semi-hydrogenation of alkynes to (Z-)alkenes over novel lead-free Pd/Boehmite catalysts. <i>Ultrasonics Sonochemistry</i> , 2017, 35, 664-672.	3.8	14
42	Eutrophic water purification efficiency using a combination of hydrodynamic cavitation and ozonation on a pilot scale. <i>Environmental Science and Pollution Research</i> , 2015, 22, 6298-6307.	2.7	13
43	Adsorptive Recovery of Iopamidol from Aqueous Solution and Parallel Reuse of Activated Carbon: Batch and Flow Study. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 7284-7295.	1.8	13
44	Aquasonolysis of thiophene and its derivatives. <i>Ultrasonics Sonochemistry</i> , 2006, 13, 86-91.	3.8	10
45	Oxidative polymerization of waste cooking oil with air under hydrodynamic cavitation. <i>Green Processing and Synthesis</i> , 2017, 6, .	1.3	10
46	Sonochemical Preparation of Inorganic Nanoparticles and Nanocomposites for Drug Release—A Review. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 10011-10032.	1.8	10
47	Adsorptive decontamination of antibiotic-spiked water and milk using commercial and modified activated carbons. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105544.	3.3	9
48	Benzene formation during aquasonolysis of selected cyclic C ₆ H hydrocarbons. <i>Ultrasonics Sonochemistry</i> , 2005, 12, 133-136.	3.8	7
49	Aquasonolysis of thioethers. <i>Ultrasonics Sonochemistry</i> , 2006, 13, 371-378.	3.8	7
50	Sonochemical reaction of selected cyclic C ₆ H hydrocarbons in organic solvents. <i>Ultrasonics Sonochemistry</i> , 2005, 12, 127-131.	3.8	6
51	In Situ Modification of Activated Carbons by Oleic Acid under Microwave Heating to Improve Adsorptive Removal of Naphthalene in Aqueous Solutions. <i>Processes</i> , 2021, 9, 391.	1.3	6