

Zhilin Wu

List of Publications by Year in descending order

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Version: 2024-02-01

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 | 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 |
| 2 | Sonochemical processes for the degradation of antibiotics in aqueous solutions: A review. <i>Ultrasonics Sonochemistry</i> , 2021, 74, 105566. | 3.8 | 76 |
| 3 | 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 |
| 4 | 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 |
| 5 | 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 |
| 6 | Sonozonation (sonication/ozonation) for the degradation of organic contaminants — A review. <i>Ultrasonics Sonochemistry</i> , 2020, 68, 105195. | 3.8 | 44 |
| 7 | 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 |
| 8 | 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 |
| 9 | Plant and Biomass Extraction and Valorisation under Hydrodynamic Cavitation. <i>Processes</i> , 2019, 7, 965. | 1.3 | 30 |
| 10 | Harnessing cavitation effects for green process intensification. <i>Ultrasonics Sonochemistry</i> , 2019, 52, 530-546. | 3.8 | 37 |
| 11 | 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 |
| 12 | 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 |
| 13 | 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 |
| 14 | 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 |
| 15 | 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 |
| 16 | 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 |
| 17 | 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 |
| 18 | Oxidative polymerization of waste cooking oil with air under hydrodynamic cavitation. <i>Green Processing and Synthesis</i> , 2017, 6, . | 1.3 | 10 |

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|----|--|-----|-----------|
| 19 | 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 |
| 20 | Selective hydrogenation of alkynes over ppm-level Pd/boehmite/Al ₂ O ₃ beads in a continuous-flow reactor. <i>Catalysis Science and Technology</i> , 2017, 7, 4780-4791. | 2.1 | 15 |
| 21 | 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 |
| 22 | 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 |
| 23 | 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 |
| 24 | 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 |
| 25 | 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 |
| 26 | 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 |
| 27 | 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 |
| 28 | 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 |
| 29 | 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 |
| 30 | Critical factors in sonochemical degradation of fumaric acid. <i>Ultrasonics Sonochemistry</i> , 2015, 27, 148-152. | 3.8 | 18 |
| 31 | 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 |
| 32 | 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 |
| 33 | 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 |
| 34 | 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 |
| 35 | Effects of Ultrasound and Microwaves on Selective Reduction: Catalyst Preparation and Reactions. <i>ChemCatChem</i> , 2014, 6, 2762-2783. | 1.8 | 36 |
| 36 | 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 |

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|----|--|-----|-----------|
| 37 | 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 |
| 38 | 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 |
| 39 | Enhanced effect of suction-cavitation on the ozonation of phenol. <i>Journal of Hazardous Materials</i> , 2011, 190, 375-380. | 6.5 | 44 |
| 40 | 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 |
| 41 | Ultrasound-assisted oxidative desulfurization of liquid fuels and its industrial application. <i>Ultrasonics Sonochemistry</i> , 2010, 17, 1027-1032. | 3.8 | 96 |
| 42 | Chemistry driven by suction. <i>Green Chemistry</i> , 2009, 11, 1026. | 4.6 | 15 |
| 43 | Oxidation of Primary Aromatic Amines under Irradiation with Ultrasound and/or Microwaves. <i>Synthetic Communications</i> , 2008, 38, 2619-2624. | 1.1 | 16 |
| 44 | Degradation of Phenol under Combined Irradiation of Microwaves and Ultrasound. <i>Environmental Science & Technology</i> , 2008, 42, 8083-8087. | 4.6 | 75 |
| 45 | Aquasonolysis of thiophene and its derivatives. <i>Ultrasonics Sonochemistry</i> , 2006, 13, 86-91. | 3.8 | 10 |
| 46 | Aquasonolysis of thioethers. <i>Ultrasonics Sonochemistry</i> , 2006, 13, 371-378. | 3.8 | 7 |
| 47 | Sonochemical reaction of selected cyclic C ₆ H hydrocarbons in organic solvents. <i>Ultrasonics Sonochemistry</i> , 2005, 12, 127-131. | 3.8 | 6 |
| 48 | Benzene formation during aquasonolysis of selected cyclic C ₆ H hydrocarbons. <i>Ultrasonics Sonochemistry</i> , 2005, 12, 133-136. | 3.8 | 7 |
| 49 | Ultrasonic Cleavage of Thioethers. <i>Journal of Physical Chemistry A</i> , 2005, 109, 3762-3766. | 1.1 | 25 |
| 50 | 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 |
| 51 | Aquasonolysis of selected cyclic C ₆ H hydrocarbons. <i>Ultrasonics Sonochemistry</i> , 2004, 11, 187-190. | 3.8 | 14 |