Zhongying Wang

List of Publications by Year
in descending order

56 papers	4,365 citations	172457 29 h-index	155660 55 g-index
56 all docs	56 docs citations	56 times ranked	6594 citing authors

#	Article	IF	Citations
1	Fully-automated SPE coupled to UHPLC-MS/MS method for multiresidue analysis of 26 trace antibiotics in environmental waters: SPE optimization and method validation. Environmental Science and Pollution Research, 2022, 29, 16973-16987.	5.3	8
2	Matrix effects on the performance and mechanism of Hg removal from groundwater by MoS₂ nanosheets. Environmental Science Advances, 2022, 1, 59-69.	2.7	2
3	Motivation of reactive oxygen and nitrogen species by a novel non-thermal plasma coupled with calcium peroxide system for synergistic removal of sulfamethoxazole in waste activated sludge. Water Research, 2022, 212, 118128.	11.3	47
4	Remediation of surface water contaminated by pathogenic microorganisms using calcium peroxide: Matrix effect, micro-mechanisms and morphological-physiological changes. Water Research, 2022, 211, 118074.	11.3	13
5	Emerging investigator series: correlating phase composition and geometric structure to the colloidal stability of 2D MoS₂ nanomaterials. Environmental Science: Nano, 2022, 9, 1605-1616.	4.3	3
6	Effect of Co-catalyst CdS on the Photocatalytic Performance of ZnMoO4 for Hydrogen Production. Catalysis Surveys From Asia, 2022, 26, 174-182.	2.6	6
7	Preparation of Nano-TiO2-Modified PVDF Membranes with Enhanced Antifouling Behaviors via Phase Inversion: Implications of Nanoparticle Dispersion Status in Casting Solutions. Membranes, 2022, 12, 386.	3.0	7
8	Dual roles of MoS2 nanosheets in advanced oxidation Processes: Activating permonosulfate and quenching radicals. Chemical Engineering Journal, 2022, 440, 135866.	12.7	24
9	Highly efficient removal and sequestration of Cr(VI) in confined MoS2 interlayer Nanochannels: Performance and mechanism. Separation and Purification Technology, 2022, 293, 121104.	7.9	4
10	Tuning phase compositions of MoS₂ nanomaterials for enhanced heavy metal removal: performance and mechanism. Physical Chemistry Chemical Physics, 2022, 24, 13305-13316.	2.8	6
11	Enhancing the Permselectivity of Thin-Film Composite Membranes Interlayered with MoS₂ Nanosheets via Precise Thickness Control. Environmental Science & Technology, 2022, 56, 8807-8818.	10.0	27
12	In-situ chemical attenuation of pharmaceutically active compounds using CaO2: Influencing factors, mechanistic modeling, and cooperative inactivation of water-borne microbial pathogens. Environmental Research, 2022, 212, 113531.	7.5	2
13	Pretreatment using UV combined with CaO2 for the anaerobic digestion of waste activated sludge: Mechanistic modeling for attenuation of trace organic contaminants. Journal of Hazardous Materials, 2021, 402, 123484.	12.4	20
14	Atomically Dispersed Cobalt Sites on Graphene as Efficient Periodate Activators for Selective Organic Pollutant Degradation. Environmental Science & Technology, 2021, 55, 5357-5370.	10.0	149
15	Novel Positively Charged Metal-Coordinated Nanofiltration Membrane for Lithium Recovery. ACS Applied Materials & Interfaces, 2021, 13, 16906-16915.	8.0	70
16	Redox-Active Nanohybrid Filter for Selective Recovery of Gold from Water. ACS ES&T Engineering, 2021, 1, 1342-1350.	7.6	15
17	Synergistic Effect of Metal Cations and Visible Light on 2D MoS₂ Nanosheet Aggregation. Environmental Science & Technology, 2021, 55, 16379-16389.	10.0	16
18	Ultra-deep removal of Pb by functionality tuned UiO-66 framework: A combined experimental, theoretical and HSAB approach. Chemosphere, 2021, 284, 131305.	8.2	29

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19	A water-soluble membrane for SARS-CoV-2 viral nucleic acid sampling and detection. Nanoscale, 2021, 13, 18084-18088.	5.6	1
20	Tailoring Defect Density in UiO-66 Frameworks for Enhanced Pb(II) Adsorption. Langmuir, 2021, 37, 13602-13609.	3.5	19
21	Metagenomic characterization of the enhanced performance of anaerobic fermentation of waste activated sludge with CaO2 addition at ambient temperature: Fatty acid biosynthesis metabolic pathway and CAZymes. Water Research, 2020, 170, 115309.	11.3	88
22	Radiolysis of carbamazepine by electron beam: Roles of transient reactive species and biotoxicity of final reaction solutions on rotifer Philodina sp.. Science of the Total Environment, 2020, 703, 135013.	8.0	10
23	Superselective Removal of Lead from Water by Two-Dimensional MoS₂ Nanosheets and Layer-Stacked Membranes. Environmental Science & Technology, 2020, 54, 12602-12611.	10.0	87
24	Attenuation of pharmaceutically active compounds in aqueous solution by UV/CaO2 process: Influencing factors, degradation mechanism and pathways. Water Research, 2019, 164, 114922.	11.3	54
25	MP-UV/CaO2 as a pretreatment method for the removal of carbamazepine and primidone in waste activated sludge and improving the solubilization of sludge. Water Research, 2019, 151, 158-169.	11.3	24
26	Dew point measurements using montmorillonite (MTT) and molybdenum disulfide (MoS2) coated QCM sensors. Sensors and Actuators B: Chemical, 2019, 279, 122-129.	7.8	15
27	Photolysis of enrofloxacin, pefloxacin and sulfaquinoxaline in aqueous solution by UV/H2O2, UV/Fe(II), and UV/H2O2/Fe(II) and the toxicity of the final reaction solutions on zebrafish embryos. Science of the Total Environment, 2019, 651, 1457-1468.	8.0	77
28	Polyamide-crosslinked graphene oxide membrane for forward osmosis. Journal of Membrane Science, 2018, 545, 11-18.	8.2	126
29	Removal and Recovery of Heavy Metal Ions by Two-dimensional MoS₂ Nanosheets: Performance and Mechanisms. Environmental Science & Technology, 2018, 52, 9741-9748.	10.0	177
30	Effect of CaO2 addition on anaerobic digestion of waste activated sludge at different temperatures and the promotion of valuable carbon source production under ambient condition. Bioresource Technology, 2018, 265, 247-256.	9.6	72
31	From Flatland to Spaceland: Higher Dimensional Patterning with Twoâ€Dimensional Materials. Advanced Materials, 2017, 29, 1605096.	21.0	76
32	Oxidation suppression during hydrothermal phase reversion allows synthesis of monolayer semiconducting MoS₂ in stable aqueous suspension. Nanoscale, 2017, 9, 5398-5403.	5.6	36
33	Dual-Channel, Molecular-Sieving Core/Shell ZIF@MOF Architectures as Engineered Fillers in Hybrid Membranes for Highly Selective CO₂ Separation. Nano Letters, 2017, 17, 6752-6758.	9.1	82
34	Understanding the Aqueous Stability and Filtration Capability of MoS₂ Membranes. Nano Letters, 2017, 17, 7289-7298.	9.1	283
35	Environmental Applications of 2D Molybdenum Disulfide (MoS₂) Nanosheets. Environmental Science & Technology, 2017, 51, 8229-8244.	10.0	647
36	Graphene Topographies: Multiscale Graphene Topographies Programmed by Sequential Mechanical Deformation (Adv. Mater. 18/2016). Advanced Materials, 2016, 28, 3603-3603.	21.0	5

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37	Aerosol synthesis of phase-controlled ironâ€“graphene nanohybrids through FeOOH nanorod intermediates. Environmental Science: Nano, 2016, 3, 1215-1221.	4.3	12
38	Hierarchical Metal Oxide Topographies Replicated from Highly Textured Graphene Oxide by Intercalation Templating. ACS Nano, 2016, 10, 10869-10879.	14.6	55
39	Nanomechanical mechanism for lipid bilayer damage induced by carbon nanotubes confined in intracellular vesicles. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 12374-12379.	7.1	109
40	Multiscale Graphene Topographies Programmed by Sequential Mechanical Deformation. Advanced Materials, 2016, 28, 3564-3571.	21.0	110
41	Chemical Dissolution Pathways of MoS₂ Nanosheets in Biological and Environmental Media. Environmental Science & Technology, 2016, 50, 7208-7217.	10.0	207
42	Biological and environmental interactions of emerging two-dimensional nanomaterials. Chemical Society Reviews, 2016, 45, 1750-1780.	38.1	216
43	Wrinkled, wavelength-tunable graphene-based surface topographies for directing cell alignment and morphology. Carbon, 2016, 97, 14-24.	10.3	101
44	Aquatic photolysis of carbamazepine by UV/H2O2 and UV/Fe(II) processes. Research on Chemical Intermediates, 2015, 41, 7015-7028.	2.7	16
45	Polybrominated diphenyl ethers (PBDEs) in soil and outdoor dust from a multi-functional area of Shanghai: Levels, compositional profiles and interrelationships. Chemosphere, 2015, 118, 87-95.	8.2	66
46	Aerosol synthesis and application of folded graphene-based materials. International Journal of Modern Physics B, 2015, 29, 1530003.	2.0	0
47	Radiation induced degradation of antiepileptic drug primidone in aqueous solution. Chemical Engineering Journal, 2015, 270, 66-72.	12.7	39
48	Crumpled graphene nanoreactors. Nanoscale, 2015, 7, 10267-10278.	5.6	21
49	Aquatic photolysis of florfenicol and thiamphenicol under direct UV irradiation, UV/H2O2 and UV/Fe(II) processes. Chemical Engineering Journal, 2015, 260, 826-834.	12.7	90
50	EB-radiolysis of carbamazepine: in pure-water with different ions and in surface water. Journal of Radioanalytical and Nuclear Chemistry, 2014, 302, 139-147.	1.5	22
51	Antioxidant chemistry of graphene-based materials and its role in oxidation protection technology. Nanoscale, 2014, 6, 11744-11755.	5.6	325
52	Biological and Environmental Transformations of Copper-Based Nanomaterials. ACS Nano, 2013, 7, 8715-8727.	14.6	230
53	Hematite nanodiscs exposing (001) facets: synthesis, formation mechanism and application for Li-ion batteries. Journal of Materials Chemistry A, 2013, 1, 5232.	10.3	38
54	Chemical Transformations of Nanosilver in Biological Environments. ACS Nano, 2012, 6, 9887-9899.	14.6	292

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55	Rareâ€Earth Oxide Nanostructures: Rules of Rareâ€Earth Nitrate Thermolysis in Octadecylamine. Chemistry - an Asian Journal, 2010, 5, 925-931.	3.3	13
56	Shape control of CoO and LiCoO2 nanocrystals. Nano Research, 2010, 3, 1-7.	10.4	76