

# Zhongying Wang

## List of Publications by Year in descending order

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56  
papers

4,365  
citations

172457

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155660

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56  
docs citations

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times ranked

6594  
citing authors

#	ARTICLE	IF	CITATIONS
1	Environmental Applications of 2D Molybdenum Disulfide (MoS <sub>2</sub> ) Nanosheets. <i>Environmental Science &amp; Technology</i> , 2017, 51, 8229-8244.	10.0	647
2	Antioxidant chemistry of graphene-based materials and its role in oxidation protection technology. <i>Nanoscale</i> , 2014, 6, 11744-11755.	5.6	325
3	Chemical Transformations of Nanosilver in Biological Environments. <i>ACS Nano</i> , 2012, 6, 9887-9899.	14.6	292
4	Understanding the Aqueous Stability and Filtration Capability of MoS <sub>2</sub> Membranes. <i>Nano Letters</i> , 2017, 17, 7289-7298.	9.1	283
5	Biological and Environmental Transformations of Copper-Based Nanomaterials. <i>ACS Nano</i> , 2013, 7, 8715-8727.	14.6	230
6	Biological and environmental interactions of emerging two-dimensional nanomaterials. <i>Chemical Society Reviews</i> , 2016, 45, 1750-1780.	38.1	216
7	Chemical Dissolution Pathways of MoS <sub>2</sub> Nanosheets in Biological and Environmental Media. <i>Environmental Science &amp; Technology</i> , 2016, 50, 7208-7217.	10.0	207
8	Removal and Recovery of Heavy Metal Ions by Two-dimensional MoS <sub>2</sub> Nanosheets: Performance and Mechanisms. <i>Environmental Science &amp; Technology</i> , 2018, 52, 9741-9748.	10.0	177
9	Atomically Dispersed Cobalt Sites on Graphene as Efficient Periodate Activators for Selective Organic Pollutant Degradation. <i>Environmental Science &amp; Technology</i> , 2021, 55, 5357-5370.	10.0	149
10	Polyamide-crosslinked graphene oxide membrane for forward osmosis. <i>Journal of Membrane Science</i> , 2018, 545, 11-18.	8.2	126
11	Multiscale Graphene Topographies Programmed by Sequential Mechanical Deformation. <i>Advanced Materials</i> , 2016, 28, 3564-3571.	21.0	110
12	Nanomechanical mechanism for lipid bilayer damage induced by carbon nanotubes confined in intracellular vesicles. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 12374-12379.	7.1	109
13	Wrinkled, wavelength-tunable graphene-based surface topographies for directing cell alignment and morphology. <i>Carbon</i> , 2016, 97, 14-24.	10.3	101
14	Aquatic photolysis of florfenicol and thiamphenicol under direct UV irradiation, UV/H <sub>2</sub> O <sub>2</sub> and UV/Fe(II) processes. <i>Chemical Engineering Journal</i> , 2015, 260, 826-834.	12.7	90
15	Metagenomic characterization of the enhanced performance of anaerobic fermentation of waste activated sludge with CaO <sub>2</sub> addition at ambient temperature: Fatty acid biosynthesis metabolic pathway and CAZymes. <i>Water Research</i> , 2020, 170, 115309.	11.3	88
16	Superselective Removal of Lead from Water by Two-Dimensional MoS <sub>2</sub> Nanosheets and Layer-Stacked Membranes. <i>Environmental Science &amp; Technology</i> , 2020, 54, 12602-12611.	10.0	87
17	Dual-Channel, Molecular-Sieving Core/Shell ZIF@MOF Architectures as Engineered Fillers in Hybrid Membranes for Highly Selective CO <sub>2</sub> Separation. <i>Nano Letters</i> , 2017, 17, 6752-6758.	9.1	82
18	Photolysis of enrofloxacin, pefloxacin and sulfaquinoxaline in aqueous solution by UV/H <sub>2</sub> O <sub>2</sub> , UV/Fe(II), and UV/H <sub>2</sub> O <sub>2</sub> /Fe(II) and the toxicity of the final reaction solutions on zebrafish embryos. <i>Science of the Total Environment</i> , 2019, 651, 1457-1468.	8.0	77

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19	Shape control of CoO and LiCoO <sub>2</sub> nanocrystals. <i>Nano Research</i> , 2010, 3, 1-7.	10.4	76
20	From Flatland to Spaceland: Higher Dimensional Patterning with Two-Dimensional Materials. <i>Advanced Materials</i> , 2017, 29, 1605096.	21.0	76
21	Effect of CaO <sub>2</sub> addition on anaerobic digestion of waste activated sludge at different temperatures and the promotion of valuable carbon source production under ambient condition. <i>Bioresource Technology</i> , 2018, 265, 247-256.	9.6	72
22	Novel Positively Charged Metal-Coordinated Nanofiltration Membrane for Lithium Recovery. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 16906-16915.	8.0	70
23	Polybrominated diphenyl ethers (PBDEs) in soil and outdoor dust from a multi-functional area of Shanghai: Levels, compositional profiles and interrelationships. <i>Chemosphere</i> , 2015, 118, 87-95.	8.2	66
24	Hierarchical Metal Oxide Topographies Replicated from Highly Textured Graphene Oxide by Intercalation Templating. <i>ACS Nano</i> , 2016, 10, 10869-10879.	14.6	55
25	Attenuation of pharmaceutically active compounds in aqueous solution by UV/CaO <sub>2</sub> process: Influencing factors, degradation mechanism and pathways. <i>Water Research</i> , 2019, 164, 114922.	11.3	54
26	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. <i>Water Research</i> , 2022, 212, 118128.	11.3	47
27	Radiation induced degradation of antiepileptic drug primidone in aqueous solution. <i>Chemical Engineering Journal</i> , 2015, 270, 66-72.	12.7	39
28	Hematite nanodiscs exposing (001) facets: synthesis, formation mechanism and application for Li-ion batteries. <i>Journal of Materials Chemistry A</i> , 2013, 1, 5232.	10.3	38
29	Oxidation suppression during hydrothermal phase reversion allows synthesis of monolayer semiconducting MoS <sub>2</sub> in stable aqueous suspension. <i>Nanoscale</i> , 2017, 9, 5398-5403.	5.6	36
30	Ultra-deep removal of Pb by functionality tuned UiO-66 framework: A combined experimental, theoretical and HSAB approach. <i>Chemosphere</i> , 2021, 284, 131305.	8.2	29
31	Enhancing the Permselectivity of Thin-Film Composite Membranes Interlayered with MoS <sub>2</sub> Nanosheets via Precise Thickness Control. <i>Environmental Science &amp; Technology</i> , 2022, 56, 8807-8818.	10.0	27
32	MP-UV/CaO <sub>2</sub> as a pretreatment method for the removal of carbamazepine and primidone in waste activated sludge and improving the solubilization of sludge. <i>Water Research</i> , 2019, 151, 158-169.	11.3	24
33	Dual roles of MoS <sub>2</sub> nanosheets in advanced oxidation Processes: Activating permonosulfate and quenching radicals. <i>Chemical Engineering Journal</i> , 2022, 440, 135866.	12.7	24
34	EB-radiolysis of carbamazepine: in pure-water with different ions and in surface water. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2014, 302, 139-147.	1.5	22
35	Crumpled graphene nanoreactors. <i>Nanoscale</i> , 2015, 7, 10267-10278.	5.6	21
36	Pretreatment using UV combined with CaO <sub>2</sub> for the anaerobic digestion of waste activated sludge: Mechanistic modeling for attenuation of trace organic contaminants. <i>Journal of Hazardous Materials</i> , 2021, 402, 123484.	12.4	20

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37	Tailoring Defect Density in UiO-66 Frameworks for Enhanced Pb(II) Adsorption. <i>Langmuir</i> , 2021, 37, 13602-13609.	3.5	19
38	Aquatic photolysis of carbamazepine by UV/H <sub>2</sub> O <sub>2</sub> and UV/Fe(II) processes. <i>Research on Chemical Intermediates</i> , 2015, 41, 7015-7028.	2.7	16
39	Synergistic Effect of Metal Cations and Visible Light on 2D MoS <sub>2</sub> Nanosheet Aggregation. <i>Environmental Science &amp; Technology</i> , 2021, 55, 16379-16389.	10.0	16
40	Dew point measurements using montmorillonite (MTT) and molybdenum disulfide (MoS <sub>2</sub> ) coated QCM sensors. <i>Sensors and Actuators B: Chemical</i> , 2019, 279, 122-129.	7.8	15
41	Redox-Active Nanohybrid Filter for Selective Recovery of Gold from Water. <i>ACS ES&amp;T Engineering</i> , 2021, 1, 1342-1350.	7.6	15
42	Rare-Earth Oxide Nanostructures: Rules of Rare-Earth Nitrate Thermolysis in Octadecylamine. <i>Chemistry - an Asian Journal</i> , 2010, 5, 925-931.	3.3	13
43	Remediation of surface water contaminated by pathogenic microorganisms using calcium peroxide: Matrix effect, micro-mechanisms and morphological-physiological changes. <i>Water Research</i> , 2022, 211, 118074.	11.3	13
44	Aerosol synthesis of phase-controlled iron-graphene nanohybrids through FeOOH nanorod intermediates. <i>Environmental Science: Nano</i> , 2016, 3, 1215-1221.	4.3	12
45	Radiolysis of carbamazepine by electron beam: Roles of transient reactive species and biotoxicity of final reaction solutions on rotifer <i>Philodina</i> sp.. <i>Science of the Total Environment</i> , 2020, 703, 135013.	8.0	10
46	Fully-automated SPE coupled to UHPLC-MS/MS method for multiresidue analysis of 26 trace antibiotics in environmental waters: SPE optimization and method validation. <i>Environmental Science and Pollution Research</i> , 2022, 29, 16973-16987.	5.3	8
47	Preparation of Nano-TiO <sub>2</sub> -Modified PVDF Membranes with Enhanced Antifouling Behaviors via Phase Inversion: Implications of Nanoparticle Dispersion Status in Casting Solutions. <i>Membranes</i> , 2022, 12, 386.	3.0	7
48	Effect of Co-catalyst CdS on the Photocatalytic Performance of ZnMoO <sub>4</sub> for Hydrogen Production. <i>Catalysis Surveys From Asia</i> , 2022, 26, 174-182.	2.6	6
49	Tuning phase compositions of MoS <sub>2</sub> nanomaterials for enhanced heavy metal removal: performance and mechanism. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 13305-13316.	2.8	6
50	Graphene Topographies: Multiscale Graphene Topographies Programmed by Sequential Mechanical Deformation ( <i>Adv. Mater.</i> 18/2016). <i>Advanced Materials</i> , 2016, 28, 3603-3603.	21.0	5
51	Highly efficient removal and sequestration of Cr(VI) in confined MoS <sub>2</sub> interlayer Nanochannels: Performance and mechanism. <i>Separation and Purification Technology</i> , 2022, 293, 121104.	7.9	4
52	Emerging investigator series: correlating phase composition and geometric structure to the colloidal stability of 2D MoS <sub>2</sub> nanomaterials. <i>Environmental Science: Nano</i> , 2022, 9, 1605-1616.	4.3	3
53	Matrix effects on the performance and mechanism of Hg removal from groundwater by MoS <sub>2</sub> nanosheets. <i>Environmental Science Advances</i> , 2022, 1, 59-69.	2.7	2
54	In-situ chemical attenuation of pharmaceutically active compounds using CaO <sub>2</sub> : Influencing factors, mechanistic modeling, and cooperative inactivation of water-borne microbial pathogens. <i>Environmental Research</i> , 2022, 212, 113531.	7.5	2

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55	A water-soluble membrane for SARS-CoV-2 viral nucleic acid sampling and detection. <i>Nanoscale</i> , 2021, 13, 18084-18088.	5.6	1
56	Aerosol synthesis and application of folded graphene-based materials. <i>International Journal of Modern Physics B</i> , 2015, 29, 1530003.	2.0	0