

Jing Zhang

List of Publications by Year in descending order

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Version: 2024-02-01

54
papers

2,761
citations

236833

25
h-index

175177

52
g-index

58
all docs

58
docs citations

58
times ranked

3570
citing authors

#	ARTICLE	IF	CITATIONS
1	Progress of nanocrystalline growth kinetics based on oriented attachment. <i>Nanoscale</i> , 2010, 2, 18-34.	2.8	486
2	Removal of Antibiotic Florfenicol by Sulfide-Modified Nanoscale Zero-Valent Iron. <i>Environmental Science & Technology</i> , 2017, 51, 11269-11277.	4.6	251
3	A Multistep Oriented Attachment Kinetics: Coarsening of ZnS Nanoparticle in Concentrated NaOH. <i>Journal of the American Chemical Society</i> , 2006, 128, 12981-12987.	6.6	194
4	Treatment of Cr ^{VI} -Containing Mg(OH) ₂ Nanowaste. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 5619-5622.	7.2	175
5	Adsorption and coadsorption mechanisms of Cr(VI) and organic contaminants on H ₃ PO ₄ treated biochar. <i>Chemosphere</i> , 2017, 186, 422-429.	4.2	133
6	Environmentally persistent free radicals mediated removal of Cr(VI) from highly saline water by corn straw biochars. <i>Bioresource Technology</i> , 2018, 260, 294-301.	4.8	131
7	Redox Reactions between Mn(II) and Hexagonal Birnessite Change Its Layer Symmetry. <i>Environmental Science & Technology</i> , 2016, 50, 1750-1758.	4.6	102
8	Heavy metal chemical extraction from industrial and municipal mixed sludge by ultrasound-assisted citric acid. <i>Journal of Industrial and Engineering Chemistry</i> , 2015, 27, 368-372.	2.9	87
9	Rapid removal of organic pollutants by activation sulfite with ferrate. <i>Chemosphere</i> , 2017, 186, 576-579.	4.2	74
10	Oriented Attachment Kinetics for Ligand Capped Nanocrystals: Coarsening of Thiol-PbS Nanoparticles. <i>Journal of Physical Chemistry B</i> , 2007, 111, 1449-1454.	1.2	68
11	Microscopic mechanism about the selective adsorption of Cr(VI) from salt solution on O-rich and N-rich biochars. <i>Journal of Hazardous Materials</i> , 2021, 404, 124162.	6.5	63
12	Pure multistep oriented attachment growth kinetics of surfactant-free SnO ₂ nanocrystals. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 8516.	1.3	53
13	Simultaneous redox conversion and sequestration of chromate(VI) and arsenite(III) by iron(III)-alginate based photocatalysis. <i>Applied Catalysis B: Environmental</i> , 2019, 259, 118046.	10.8	46
14	Simultaneous photocatalytic redox removal of chromium(^{vi}) and arsenic(ⁱⁱⁱ) by hydrothermal carbon-sphere@nano-Fe ₃ O ₄ . <i>Environmental Science: Nano</i> , 2019, 6, 937-947.	2.2	44
15	Visible-light photocatalysis accelerates As(III) release and oxidation from arsenic-containing sludge. <i>Applied Catalysis B: Environmental</i> , 2019, 250, 1-9.	10.8	43
16	Hierarchical Core-Shell Co ₂ N/CoP Embedded in N, P-doped Carbon Nanotubes as Efficient Oxygen Reduction Reaction Catalysts for Zn-air Batteries. <i>Small</i> , 2022, 18, e2108094.	5.2	39
17	Smectic phase in suspensions of gapped DNA duplexes. <i>Nature Communications</i> , 2016, 7, 13358.	5.8	38
18	Growth and Phase-Transformation Mechanisms of Nanocrystalline CdS in Na ₂ S Solution. <i>Journal of Physical Chemistry C</i> , 2008, 112, 9229-9233.	1.5	37

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19	Evolution of ZnS Nanostructure Morphology under Interfacial Free-Energy Control. <i>Chemistry of Materials</i> , 2008, 20, 2438-2443.	3.2	34
20	NaOH Concentration Effect on the Oriented Attachment Growth Kinetics of ZnS. <i>Journal of Physical Chemistry B</i> , 2007, 111, 5290-5294.	1.2	32
21	Enhanced removal of antimony by acid birnessite with doped iron ions: Accompanied by the structural transformation. <i>Chemosphere</i> , 2019, 226, 834-840.	4.2	32
22	Structure and dynamics of water in nonionic reverse micelles: A combined time-resolved infrared and small angle x-ray scattering study. <i>Journal of Chemical Physics</i> , 2012, 137, 044503.	1.2	31
23	Emerging investigator series: treatment and recycling of heavy metals from nanosludge. <i>Environmental Science: Nano</i> , 2019, 6, 1657-1673.	2.2	31
24	The Effects of Particle Concentration and Surface Charge on the Oriented Attachment Growth Kinetics of CdTe Nanocrystals in H ₂ O. <i>Journal of Physical Chemistry C</i> , 2011, 115, 10357-10364.	1.5	27
25	Adsorption Mechanisms of Dodecylbenzene Sulfonic Acid by Corn Straw and Poplar Leaf Biochars. <i>Materials</i> , 2017, 10, 1119.	1.3	27
26	Electrocatalytic reduction of Cr(VI) over heterophase MoS ₂ film electrode. <i>Chemical Engineering Journal</i> , 2021, 404, 126556.	6.6	25
27	Modified Local Soil (MLS) Technology for Harmful Algal Bloom Control, Sediment Remediation, and Ecological Restoration. <i>Water (Switzerland)</i> , 2019, 11, 1123.	1.2	24
28	Removal of organic dye by biomass-based iron carbide composite with an improved stability and efficiency. <i>Journal of Hazardous Materials</i> , 2019, 369, 621-631.	6.5	23
29	Direct Visualization of Conformation and Dense Packing of DNA-Based Soft Colloids. <i>Physical Review Letters</i> , 2014, 113, 268303.	2.9	22
30	Enhanced degradation performance of p-chlorophenol in photo-Fenton reaction activated by nano-FeO encapsulated in hydrothermal carbon: Improved Fe(III)/Fe(II) cycle. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 594, 124650.	2.3	21
31	Simultaneous oxidation of Cr(III) and extraction of Cr(VI) from chromite ore processing residue by silicate-assisted hydrothermal treatment. <i>Chemical Engineering Journal</i> , 2019, 371, 565-574.	6.6	20
32	Experimental determination of resolution function parameters from small-angle neutron scattering data of a colloidal SiO ₂ dispersion. <i>Journal of Applied Crystallography</i> , 2010, 43, 686-692.	1.9	19
33	Hydrothermal treatment of arsenic sulfide slag to immobilize arsenic into scorodite and recycle sulfur. <i>Journal of Hazardous Materials</i> , 2021, 406, 124735.	6.5	19
34	Synthesis and Self-Assembly of Squarelike PbCrO ₄ Nanoplatelets via Micelle-Mediated Depletion Attraction. <i>Langmuir</i> , 2013, 29, 4679-4687.	1.6	18
35	Electrocatalytic oxidation of arsenite by reduced graphene oxide via in-situ electrocatalytic generation of H ₂ O ₂ . <i>Environmental Pollution</i> , 2019, 254, 112958.	3.7	18
36	Relationship between the coprecipitation mechanism, doping structure and physical properties of Zn _{1-x} CoxS nanocrystallites. <i>Nanotechnology</i> , 2007, 18, 035705.	1.3	16

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37	Formation and Self-Assembly of Cadmium Hydroxide Nanoplates in Molten Composite-Hydroxide Solution. <i>Crystal Growth and Design</i> , 2010, 10, 4285-4291.	1.4	16
38	Optimization and calculation of the LaBr ₃ –MBr (M=Na, K, Rb, Cs) phase diagrams. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2004, 28, 147-151.	0.7	15
39	Synthesis of Bi ₂ WO ₆ /Na-bentonite composites for photocatalytic oxidation of arsenic(III) under simulated sunlight. <i>RSC Advances</i> , 2019, 9, 29689-29698.	1.7	13
40	Thermodynamic optimization of the CeCl ₃ –AECl ₂ (AE=Mg,Ca,Sr,Ba) phase diagrams. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2003, 27, 305-308.	0.7	12
41	The Mass Production of ZnS Nanoarchitecture via Thermodynamic Design. <i>Crystal Growth and Design</i> , 2008, 8, 2324-2328.	1.4	12
42	Cellulose Mediated Reduction and Immobilization of Cr(VI) in Chromite Ore Processing Residue. <i>Journal of Hazardous Materials</i> , 2020, 394, 122538.	6.5	12
43	Effective photocatalytic removal of As(III) by ZnFe ₂ O ₄ /Ag/AgCl coupled peroxy monosulfate: Z-Scheme charge transfer and dual active sites. <i>Applied Surface Science</i> , 2021, 567, 150860.	3.1	11
44	A novel layer-layer crossed structure of bentonite/g-C ₃ N ₄ for enhanced photocatalytic oxidation of arsenic(III) in a wide pH range. <i>Surfaces and Interfaces</i> , 2021, 26, 101365.	1.5	9
45	Visible-light activation of sulfite by ZnFe ₂ O ₄ @PANI photocatalyst for As(III) removal: The role of radicals and Fe(IV). <i>Applied Surface Science</i> , 2022, 578, 151940.	3.1	9
46	Chemical and spectroscopic characteristics of humic acid from a clay loam soil in Ontario after 52 years of consistent fertilization and crop rotation. <i>Pedosphere</i> , 2021, 31, 204-213.	2.1	7
47	DNA Self-Assembly Mediated by Programmable Soft-Patchy Interactions. <i>ACS Nano</i> , 2020, 14, 13524-13535.	7.3	6
48	Enrichment of sulfur-oxidizing bacteria using S-doped NiFe ₂ O ₄ nanosheets as the anode in microbial fuel cell enhances power production and sulfur recovery. <i>Science of the Total Environment</i> , 2022, 844, 156973.	3.9	6
49	Self-assembly of biaxial discorctangular lead carbonate nanosheets into stacked ribbons studied by SAXS and HAADF-STEM tomographic tilt series. <i>Soft Matter</i> , 2014, 10, 9511-9522.	1.2	5
50	PH-dependent photochemical transformation of arsenic sulfide sludge catalyzed by Fe ions under visible light irradiation. <i>Applied Catalysis B: Environmental</i> , 2021, 293, 120186.	10.8	5
51	Thermodynamic optimization of DyCl ₃ -NaCl system. <i>Journal of Shanghai University</i> , 2005, 9, 279-282.	0.1	3
52	Controllable synthesis and self-assembly of PbCO ₃ nanorods in shape-dependent nonionic w/o microemulsions. <i>Soft Matter</i> , 2013, 9, 7576.	1.2	3
53	Sorption behavior of dodecylbenzene sulfonic acid on humic acids from Mollisol and Alluvial soils. <i>Environmental Earth Sciences</i> , 2016, 75, 1.	1.3	3
54	Formation of amorphous PbCrO ₄ nanoparticles depending on the quantitative control of interfacial water. <i>Molecular Systems Design and Engineering</i> , 2021, 6, 918-924.	1.7	0