Jiabin Zhou

List of Publications by Year
in descending order

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84 papers	4,618 citations	100601 38 h-index	120465 65 g-index
86 all docs	86 docs citations	86 times ranked	5846 citing authors

#	Article	IF	Citations
1	Removal of Toluene in Air by a Non-thermal Plasma-Catalytic Reactor Using MnOx/ZSM-5. Catalysis Letters, 2022, 152, 239-253.	1.4	9
2	MIL-88/Go derived Fe2O3/rGO as a photo-Fenton catalyst: Free radical generation by multipath electron transfer. Materials Letters, 2022, 307, 131076.	1.3	5
3	Magnetically separable NiFe2O4/sepiolite catalyst for enhanced ozonation treatment of quinoline and bio-treated coking wastewater in a catalytic ozonation system. Chemical Engineering Research and Design, 2022, 159, 422-432.	2.7	21
4	Construction of Cu-Fe bimetallic oxide/biochar/Ag3PO4 heterojunction for improving photocorrosion resistance and photocatalytic performance achieves efficient removal of phenol. Applied Surface Science, 2022, 592, 153307.	3.1	16
5	Enhanced catalytic performance of Cu-doped MnFe2O4 magnetic ferrites: Tetracycline hydrochloride attacked by superoxide radicals efficiently in a strong alkaline environment. Chemosphere, 2022, 297, 134154.	4.2	31
6	Plasma regulates active sites on biochar to boost peroxomonosulfate activation for phenol degradation. Journal of Environmental Chemical Engineering, 2022, 10, 107833.	3.3	4
7	Degradation of tetracycline hydrochloride by coupling of photocatalysis and peroxymonosulfate oxidation processes using CuO-BiVO4 heterogeneous catalyst. Chemical Engineering Research and Design, 2021, 145, 364-377.	2.7	92
8	Peroxymonosulfate-assisted g-C3N4@Bi2MoO6 photocatalytic system for degradation of nimesulide through phenyl ether bond cleavage under visible light irradiation. Separation and Purification Technology, 2021, 264, 118288.	3.9	38
9	Cancer risk assessment for exposure to hazardous volatile organic compounds in Calgary, Canada. Chemosphere, 2021, 272, 129650.	4.2	18
10	Construction of Z-scheme CuFe2O4/MnO2 photocatalyst and activating peroxymonosulfate for phenol degradation: Synergistic effect, degradation pathways, and mechanism. Environmental Research, 2021, 200, 111736.	3.7	57
11	Highly efficient removal of tetracycline hydrochloride under neutral conditions by visible photo-Fenton process using novel MnFe2O4/diatomite composite. Journal of Water Process Engineering, 2021, 43, 102307.	2.6	9
12	Fe-MOF by ligand selective pyrolysis for Fenton-like process and photocatalysis: Accelerating effect of oxygen vacancy. Journal of the Taiwan Institute of Chemical Engineers, 2021, 127, 327-333.	2.7	23
13	Enhancing electronic transfer by magnetic iron materials and metal-organic framework via heterogeneous Fenton-like process and photocatalysis. Materials Science in Semiconductor Processing, 2021, 135, 106096.	1.9	12
14	Characterization of aerosol chemical composition and the reconstruction of light extinction coefficients during winter in Wuhan, China. Chemosphere, 2020, 241, 125033.	4.2	29
15	Oxidative potential of ambient PM2.5 in Wuhan and its comparisons with eight areas of China. Science of the Total Environment, 2020, 701, 134844.	3.9	40
16	Shuttle-like CeO2/g-C3N4 composite combined with persulfate for the enhanced photocatalytic degradation of norfloxacin under visible light. Ecotoxicology and Environmental Safety, 2020, 190, 110062.	2.9	74
17	Optimization of a volatile organic compound control strategy in an oil industry center in Canada by evaluating ozone and secondary organic aerosol formation potential. Environmental Research, 2020, 191, 110217.	3.7	16
18	A facile solâ€“gel synthesis of chitosanâ€“boehmite film with excellent acid resistance and adsorption performance for Pb(II). Chemical Engineering Research and Design, 2020, 161, 332-339.	2.7	25

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19	One-step vapor-phase assisted hydrothermal synthesis of functionalized carbons: Effects of surface groups on their physicochemical properties and adsorption performance for Cr(VI). Applied Surface Science, 2020, 528, 146984.	3.1	47
20	Chemical nature of PM2.5 and PM10 in the coastal urban Xiamen, China: Insights into the impacts of shipping emissions and health risk. Atmospheric Environment, 2020, 227, 117383.	1.9	52
21	Rapid degradation of tetracycline hydrochloride by heterogeneous photocatalysis coupling persulfate oxidation with MIL-53(Fe) under visible light irradiation. Journal of Hazardous Materials, 2020, 392, 122315.	6.5	150
22	MIL-88/PVB nanofiber as recyclable heterogeneous catalyst for photocatalytic and Fenton process under visible light irradiation. Chemical Physics Letters, 2020, 749, 137431.	1.2	26
23	Photo-Fenton removal of tetracycline hydrochloride using LaFeO3 as a persulfate activator under visible light. Ecotoxicology and Environmental Safety, 2020, 198, 110661.	2.9	35
24	Chemical characteristics and source apportionment of PM2.5 in Wuhan, China. Journal of Atmospheric Chemistry, 2019, 76, 245-262.	1.4	32
25	Visible-light photocatalytic degradation pathway of tetracycline hydrochloride with cubic structured ZnO/SnO2 heterojunction nanocatalyst. Chemical Physics Letters, 2019, 736, 136806.	1.2	59
26	Coupling Bi2MoO6 with persulfate for photocatalytic oxidation of tetracycline hydrochloride under visible light. Journal of Materials Science: Materials in Electronics, 2019, 30, 19108-19118.	1.1	24
27	The synergistic effect of Ag/AgCl@ZIF-8 modified g-C3N4 composite and peroxymonosulfate for the enhanced visible-light photocatalytic degradation of levofloxacin. Science of the Total Environment, 2019, 696, 133962.	3.9	142
28	Enhanced degradation of tetracycline hydrochloride using photocatalysis and sulfate radical-based oxidation processes by Co/BiVO4 composites. Journal of Water Process Engineering, 2019, 32, 100918.	2.6	32
29	Nano-sized g-C3N4 thin layer @ CeO2 sphere core-shell photocatalyst combined with H2O2 to degrade doxycycline in water under visible light irradiation. Separation and Purification Technology, 2019, 227, 115665.	3.9	64
30	Facile Synthesis of Novel Rare-Earth Elements-Modified SiO₂ Films for Effective Cr(VI) Removal from Electroplating Effluent. Journal of Chemical & Engineering Data, 2019, 64, 2677-2685.	1.0	7
31	Coupling of heterogeneous advanced oxidation processes and photocatalysis in efficient degradation of tetracycline hydrochloride by Fe-based MOFs: Synergistic effect and degradation pathway. Chemical Engineering Journal, 2019, 369, 745-757.	6.6	427
32	Preparation of pineapple waste-derived porous carbons with enhanced CO2 capture performance by hydrothermal carbonation-alkali metal oxalates assisted thermal activation process. Chemical Engineering Research and Design, 2019, 146, 130-140.	2.7	42
33	Preparation of thiourea-modified magnetic chitosan composite with efficient removal efficiency for Cr(VI). Chemical Engineering Research and Design, 2019, 144, 150-158.	2.7	37
34	CTAB-functionalized C@SiO2 double-shelled hollow microspheres with enhanced and selective adsorption performance for Cr(VI). Journal of Alloys and Compounds, 2019, 777, 1304-1312.	2.8	41
35	Facile fabrication of multi-walled carbon nanotubes (MWCNTs)/Î±-Bi2O3 nanosheets composite with enhanced photocatalytic activity for doxycycline degradation under visible light irradiation. Journal of Materials Science, 2019, 54, 3294-3308.	1.7	50
36	Enhancement of adsorption and visible light photocatalytic activity of the Zn2+-doped BiOBr/PVP modified microspheres for RhB. Materials Science in Semiconductor Processing, 2019, 90, 112-119.	1.9	18

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37	MOF-derived C-doped ZnO composites for enhanced photocatalytic performance under visible light. Journal of Alloys and Compounds, 2019, 777, 109-118.	2.8	141
38	Preparation of amino-functionalized magnetic biochar with excellent adsorption performance for Cr(VI) by a mild one-step hydrothermal method from peanut hull. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 563, 102-111.	2.3	175
39	Characterizing and sourcing ambient PM2.5 over key emission regions in China III: Carbon isotope based source apportionment of black carbon. Atmospheric Environment, 2018, 177, 12-17.	1.9	15
40	A hybrid source apportionment strategy using positive matrix factorization (PMF) and molecular marker chemical mass balance (MM-CMB) models. Environmental Pollution, 2018, 238, 39-51.	3.7	51
41	Enhanced photocatalytic performance and degradation pathway of Rhodamine B over hierarchical double-shelled zinc nickel oxide hollow sphere heterojunction. Applied Surface Science, 2018, 430, 549-560.	3.1	106
42	Photodegradation pathway of rhodamine B with novel Au nanorods @ ZnO microspheres driven by visible light irradiation. Journal of Materials Science, 2018, 53, 3149-3162.	1.7	56
43	In situ facile fabrication of Z-scheme leaf-like Î²-Bi2O3/g-C3N4 nanosheets composites with enhanced visible light photoactivity. Journal of Materials Science: Materials in Electronics, 2018, 29, 14906-14917.	1.1	21
44	Visible light photocatalytic degradation of MB using UiO-66/g-C3N4 heterojunction nanocatalyst. Chemosphere, 2018, 212, 523-532.	4.2	159
45	The formation of a direct Z-scheme Bi2O3/MoO3 composite nanocatalyst with improved photocatalytic activity under visible light. Chemical Physics Letters, 2018, 706, 208-214.	1.2	39
46	Characterizing and sourcing ambient PM2.5 over key emission regions in China II: Organic molecular markers and CMB modeling. Atmospheric Environment, 2017, 163, 57-64.	1.9	25
47	Seasonal and spatial differences in source contributions to PM2.5 in Wuhan, China. Science of the Total Environment, 2017, 577, 155-165.	3.9	65
48	Carbon nanotube sponges as a solid-phase extraction adsorbent for the enrichment and determination of polychlorinated biphenyls at trace levels in environmental water samples. Talanta, 2016, 160, 79-85.	2.9	33
49	Simultaneous determination of copper, cobalt, and mercury ions in water samples by solid-phase extraction using carbon nanotube sponges as adsorbent after chelating with sodium diethyldithiocarbamate prior to high performance liquid chromatography. Analytical and Bioanalytical Chemistry, 2016, 408, 4445-4453.	1.9	41
50	Characterizing and sourcing ambient PM2.5 over key emission regions in China I: Water-soluble ions and carbonaceous fractions. Atmospheric Environment, 2016, 135, 20-30.	1.9	98
51	Facile synthesis of boehmite/PVA composite membrane with enhanced adsorption performance towards Cr(VI). Journal of Hazardous Materials, 2016, 318, 452-459.	6.5	59
52	Enrichment and determination of polybrominated diphenyl ethers in environmental water samples by magnetic solidâ€phase extraction with coreâ€“shell magnetic carbon microspheres before gas chromatography with mass spectrometry. Journal of Separation Science, 2016, 39, 1955-1962.	1.3	14
53	Hierarchically porous NiAl-LDH nanoparticles as highly efficient adsorbent for p-nitrophenol from water. Applied Surface Science, 2015, 349, 897-903.	3.1	104
54	Porous lead(II)-based metal organic nanotubes as an adsorbent for dispersive solid-phase extraction of polybrominated diphenyl ethers from environmental water samples. Journal of Chromatography A, 2015, 1423, 31-38.	1.8	27

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55	Template-free synthesis of hierarchical Î³-Al₂O₃ nanostructures and their adsorption affinity toward phenol and CO₂. RSC Advances, 2015, 5, 7066-7073.	1.7	31
56	Growing trend of Chinaâ€™s contribution to haze research. Scientometrics, 2015, 105, 525-535.	1.6	10
57	Hierarchically Porous Zn/Al Layered Double Hydroxides Intercalated with Citrate and Their Adsorption toward Parachlorophenol in Water. Integrated Ferroelectrics, 2015, 162, 102-112.	0.3	1
58	Seasonal Variations and Sources of Carboxylic Acids in PM2.5 in Wuhan, China. Aerosol and Air Quality Research, 2015, 15, 517-528.	0.9	24
59	Sensitive determination of polychlorinated biphenyls in environmental water samples by headspace solid-phase microextraction with bamboo charcoal@iron oxide black fibers prior to gas chromatography with tandem mass spectrometry. Journal of Separation Science, 2014, 37, 1496-1502.	1.3	11
60	Hydrothermal Synthesis of Modified Hydrophobic Znâ€“Al-Layered Double Hydroxides Using Structure-Directing Agents and Their Enhanced Adsorption Capacity for p-Nitrophenol. Adsorption Science and Technology, 2014, 32, 351-364.	1.5	19
61	Cr(VI) removal from aqueous solutions by hydrothermal synthetic layered double hydroxides: Adsorption performance, coexisting anions and regeneration studies. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2014, 457, 33-40.	2.3	127
62	Bamboo charcoal as a novel solid-phase microextraction coating material for enrichment and determination of eleven phthalate esters in environmental water samples. Analytical and Bioanalytical Chemistry, 2013, 405, 4993-4996.	1.9	23
63	Effect of structure-directing agents on facile hydrothermal preparation of hierarchical Î³-Al2O3 and their adsorption performance toward Cr(VI) and CO2. Journal of Colloid and Interface Science, 2013, 401, 34-39.	5.0	49
64	Facile synthesis of alumina hollow microspheres via trisodium citrate-mediated hydrothermal process and their adsorption performances for p-nitrophenol from aqueous solutions. Journal of Colloid and Interface Science, 2013, 394, 509-514.	5.0	46
65	Preconcentration and determination of polybrominated diphenyl ethers in environmental water samples by solid-phase microextraction with Fe3O4-coated bamboo charcoal fibers prior to gas chromatographyâ€“mass spectrometry. Analytica Chimica Acta, 2013, 769, 65-71.	2.6	58
66	Different surfactants-assisted hydrothermal synthesis of hierarchical Î³-Al2O3 and its adsorption performances for parachlorophenol. Chemical Engineering Journal, 2013, 233, 168-175.	6.6	45
67	Facile Hydrothermal Synthesis and Characterization of Porous Magnesium Oxide for Parachlorophenol Adsorption From the Water. Integrated Ferroelectrics, 2012, 137, 18-29.	0.3	8
68	Glycine-assisted hydrothermal synthesis and adsorption properties of crosslinked porous Î±-Fe2O3 nanomaterials for p-nitrophenol. Chemical Engineering Journal, 2012, 211-212, 153-160.	6.6	42
69	Using Zn/Al layered double hydroxide as a novel solid-phase extraction adsorbent to extract polycyclic aromatic hydrocarbons at trace levels in water samples prior to the determination of gas chromatographyâ€“mass spectrometry. Analytical and Bioanalytical Chemistry, 2012, 404, 1603-1610.	1.9	43
70	Rattle-type Carbonâ€“Alumina Coreâ€“Shell Spheres: Synthesis and Application for Adsorption of Organic Dyes. ACS Applied Materials & Interfaces, 2012, 4, 2174-2179.	4.0	124
71	Determination of estrogens in environmental water samples with solid-phase extraction packed with bamboo charcoal prior to high-performance liquid chromatography-ultraviolet detection. Analytical Methods, 2011, 3, 2568.	1.3	4
72	Hierarchically porous calcined lithium/aluminum layered double hydroxides: Facile synthesis and enhanced adsorption towards fluoride in water. Journal of Materials Chemistry, 2011, 21, 19353.	6.7	91

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73	Novel hollow microspheres of hierarchical zincâ€“aluminum layered double hydroxides and their enhanced adsorption capacity for phosphate in water. Journal of Hazardous Materials, 2011, 192, 1114-1121.	6.5	194
74	Preparation and characterization of visible-light-driven plasmonic photocatalyst Ag/AgCl/TiO2 nanocomposite thin films. Journal of Photochemistry and Photobiology A: Chemistry, 2011, 223, 82-87.	2.0	108
75	Preconcentration and sensitive determination of hexabromocyclododecane diastereomers in environmental water samples using solid phase extraction with bamboo charcoal cartridge prior to rapid resolution liquid chromatographyâ€“electrospray tandem mass spectrometry. Analytical and Bioanalytical Chemistry, 2011, 400, 1189-1195.	1.9	15
76	Facile fabrication of mesoporous MgO microspheres and their enhanced adsorption performance for phosphate from aqueous solutions. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2011, 379, 102-108.	2.3	146
77	Insights into the nature of secondary organic aerosol in Mexico City during the MILAGRO experiment 2006. Atmospheric Environment, 2010, 44, 312-319.	1.9	57
78	Seasonal and spatial trends in the sources of fine particle organic carbon in Israel, Jordan, and Palestine. Atmospheric Environment, 2010, 44, 3669-3678.	1.9	29
79	Spatial Variability of Carbonaceous Aerosol Concentrations in East and West Jerusalem. Environmental Science & Technology, 2010, 44, 1911-1917.	4.6	14
80	A Comparison of Summertime Secondary Organic Aerosol Source Contributions at Contrasting Urban Locations. Environmental Science & Technology, 2009, 43, 3448-3454.	4.6	78
81	Composition and sources of organic matter in atmospheric PM10 over a two year period in Beijing, China. Atmospheric Research, 2009, 93, 849-861.	1.8	32
82	Sources and Seasonal Changes in the Distributions of Aliphatic and Polycyclic Aromatic Hydrocarbons in Size Fractions of Atmospheric Particles of Beijing, China. Environmental Engineering Science, 2008, 25, 207-220.	0.8	12
83	Seasonal Variation and Spatial Distribution of Polycyclic Aromatic Hydrocarbons in Atmospheric PM10 of Beijing, Peopleâ€™s Republic of China. Bulletin of Environmental Contamination and Toxicology, 2005, 74, 660-666.	1.3	12
84	Size distribution of polycyclic aromatic hydrocarbons in urban and suburban sites of Beijing, China. Chemosphere, 2005, 61, 792-799.	4.2	130