Sidi Zhu

List of Publications by Year in Descending Order

61 papers	1,110 citations	21 h-index	31 g-index
62 ext. papers	1,827 ext. citations	6.8 avg, IF	5.46 L-index

#	Paper	IF	Citations
61	In-Depth Study of Heavy Metal Removal by an Etidronic Acid-Functionalized Layered Double Hydroxide.. *ACS Applied Materials & Interfaces*, **2022**,	9.5	12
60	The uptake performance and microscopic mechanism of inorganic-organic phosphorus hybrid amorphous hydroxyapatite for multiple heavy metal ions. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2022**, 640, 128384	5.1	0
59	Investigation of the efficient adsorption performance and adsorption mechanism of 3D composite structure La nanosphere-coated Mn/Fe layered double hydrotalcite on phosphate.. *Journal of Colloid and Interface Science*, **2022**, 614, 478-488	9.3	5
58	The □off-on□fluorescent probe based on salicylic acid for rapid and selective detection of 1-hydroxyethane-1,1-diphosphonic acid. *Journal of Photochemistry and Photobiology A: Chemistry*, **2022**, 426, 113740	4.7	
57	Facile immobilization of ethylenediamine tetramethylene-phosphonic acid into UiO-66 for toxic divalent heavy metal ions removal: An experimental and theoretical exploration. *Science of the Total Environment*, **2022**, 806, 150652	10.2	8
56	Three-dimension hierarchical composite via in-situ growth of Zn/Al layered double hydroxide plates onto polyaniline-wrapped carbon sphere for efficient naproxen removal. *Journal of Hazardous Materials*, **2022**, 423, 127192	12.8	10
55	Synthesis, characterization and applications of 3D porous graphene hierarchical structure by direct carbonization of maleic acid. *Ceramics International*, **2022**, 48, 8409-8416	5.1	
54	A facile synthesis of ibandronate modified hydroxyapatite renewable nanomaterials for simultaneous removal of Cu2+/Pb2+ and chlortetracycline: Experimental design and adsorption mechanism study. *Journal of Cleaner Production*, **2022**, 132173	10.3	0
53	An efficient Two-Chamber Electrodeposition-Electrodialysis combination craft for nickel recovery and phosphorus removal from spent electroless nickel plating bath. *Separation and Purification Technology*, **2022**, 295, 121283	8.3	0
52	Porous P, Fe-doped g-CN nanostructure with enhanced photo-Fenton activity for removal of tetracycline hydrochloride: Mechanism insight, DFT calculation and degradation pathways. *Chemosphere*, **2021**, 133039	8.4	4
51	New insights into the capture performance and mechanism of hazardous metals Cr and Cd onto an effective layered double hydroxide based material.. *Journal of Hazardous Materials*, **2021**, 426, 128062	12.8	16
50	The interaction and mechanism between threonine-montmorillonite composite and Pb2+ or Cu2+: Experimental study and theory calculation. *Journal of Molecular Liquids*, **2021**, 326, 115243	6	3
49	The adsorption and mechanism of benzothiazole and 2-hydroxybenzothiazole onto a novel ampholytic surfactant modified montmorillonite: Experimental and theoretical study. *Advanced Powder Technology*, **2021**, 32, 1219-1232	4.6	2
48	Microscopic adsorption mechanism of montmorillonite for common ciprofloxacin emerging contaminant: Molecular dynamics simulation and Multiwfn wave function analysis. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2021**, 614, 126186	5.1	12
47	The adsorption performance and micro-mechanism of MoS/montmorillonite composite to atenolol and acebutolol: Adsorption experiments and a novel visual study of interaction. *Ecotoxicology and Environmental Safety*, **2021**, 213, 111993	7	5
46	Adsorption of two □blocker pollutants on modified montmorillonite with environment-friendly cationic surfactant containing amide group: Batch adsorption experiments and Multiwfn wave function analysis. *Journal of Colloid and Interface Science*, **2021**, 590, 601-613	9.3	9
45	Adsorption properties and mechanism of montmorillonite modified by two Gemini surfactants with different chain lengths for three benzotriazole emerging contaminants: Experimental and theoretical study. *Applied Clay Science*, **2021**, 207, 106086	5.2	8

44	Exploration of adsorption mechanism of 2-phosphonobutane-1,2,4-tricarboxylic acid onto kaolinite and montmorillonite via batch experiment and theoretical studies. *Journal of Hazardous Materials*, **2021**, 403, 123810	12.8	41
43	Efficient absorption properties of surface grafted HEDP-HAP composites for Pb and Cu: Experimental study and visualization study of interaction based on Becke surface analysis and independent gradient model. *Journal of Hazardous Materials*, **2021**, 401, 123748	12.8	10
42	The ratiometric detection and mechanism of three typical phosphonates by quercetin-based fluorescent probe with low detection limits. *Journal of Luminescence*, **2021**, 231, 117778	3.8	2
41	Rapid and efficient removal of diclofenac sodium from aqueous solution via ternary core-shell CS@PANI@LDH composite: Experimental and adsorption mechanism study. *Journal of Hazardous Materials*, **2021**, 402, 123815	12.8	50
40	Preparation of spherical filler-like ZnFeO/BiMoO surrounded by nanosheets and its photocatalytic applications. *Environmental Technology (United Kingdom)*, **2021**, 42, 2077-2084	2.6	2
39	Experimental and theoretical study on the adsorption mechanism of Amino trimethylphosphate (ATMP) functionalized hydroxyapatite on Pb (II) and Cd (II). *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2021**, 626, 127029	5.1	6
38	The enhanced adsorption of Ampicillin and Amoxicillin on modified montmorillonite with dodecyl dimethyl benzyl ammonium chloride: Experimental study and density functional theory calculation. *Advanced Powder Technology*, **2021**, 32, 3465-3475	4.6	5
37	The removal of benzothiazole by combined inorgano-organo-montmorillonite modified with hydroxyl iron pillar and cationic panthenol intercalation: Experimental study and Multiwfn wavefunction analysis. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2021**, 626, 127025	5.1	2
36	Peroxymonosulfate activation through 2D/2D Z-scheme CoAl-LDH/BiOBr photocatalyst under visible light for ciprofloxacin degradation. *Journal of Hazardous Materials*, **2021**, 420, 126613	12.8	24
35	Water decontamination by 3D graphene based materials: A review. *Journal of Water Process Engineering*, **2020**, 36, 101404	6.7	22
34	Synthesis and micro-mechanistic studies of histidine modified montmorillonite for lead(II) and copper(II) adsorption from wastewater. *Chemical Engineering Research and Design*, **2020**, 157, 142-152	5.5	21
33	A new alendronate doped HAP nanomaterial for Pb, Cu and Cd effect absorption. *Journal of Hazardous Materials*, **2020**, 400, 123143	12.8	31
32	Facile synthesis of rock-like Ag2ZrO3 decorated with TiO2 nanoparticles heterostructures with highly enhanced visible-light photocatalytic properties. *Journal of Nanoparticle Research*, **2020**, 22, 1	2.3	0
31	The facile synthesis of zoledronate functionalized hydroxyapatite amorphous hybrid nanobiomaterial and its excellent removal performance on Pb and Cu. *Journal of Hazardous Materials*, **2020**, 392, 122291	12.8	27
30	Mechanism of carboxymethyl chitosan hybrid montmorillonite and adsorption of Pb(II) and Congo red by CMC-MMT organic-inorganic hybrid composite. *International Journal of Biological Macromolecules*, **2020**, 149, 1161-1169	7.9	23
29	Mesoporous CuS nanospheres decorated rGO aerogel for high photocatalytic activity towards Cr(VI) and organic pollutants. *Chemosphere*, **2020**, 246, 125846	8.4	32
28	Rapid removal of toxic metals Cu2+ and Pb2+ by amino trimethylene phosphonic acid intercalated layered double hydroxide: A combined experimental and DFT study. *Chemical Engineering Journal*, **2020**, 392, 123711	14.7	79
27	Methionine-montmorillonite composite □A novel material for efficient adsorption of lead ions. *Advanced Powder Technology*, **2020**, 31, 708-717	4.6	16

26	Molecular dynamics simulations of the binging affinity of 1-hydroxyethane-1, 1-diphosphonic acid (HEDP) with nano-hydroxyapatite and the uptake of Cu by HEDP-HAP hybrid systems. *Journal of Hazardous Materials*, **2020**, 383, 121206	12.8	19
25	Synthesis and characterisation of (Fe, Co, Ni)-polyoxometalates to degrade O, O-diethyl-S-(p-tolyl) phosphorothioate under visible light irradiation. *International Journal of Environmental Analytical Chemistry*, **2020**, 100, 1376-1389	1.8	2
24	The synergistic effect and microscopic mechanism of co-adsorption of three emerging contaminants and copper ion on gemini surfactant modified montmorillonite. *Ecotoxicology and Environmental Safety*, **2019**, 184, 109610	7	11
23	Facile synthesis of protonated g-C3N4 and acid-activated montmorillonite composite with efficient adsorption capacity for PO43 and Pb(II). *Chemical Engineering Research and Design*, **2019**, 152, 95-105	5.5	28
22	Facile synthesis of CNS/TNS sensitized with Cu biphenylamine frameworks for remarkable photocatalytic activity for organic pollutants degradation and bacterial inactivation. *Solar Energy*, **2019**, 186, 204-214	6.8	17
21	Kinetics and equilibrium isotherms of adsorption of Pb(II) and Cu(II) onto raw and arginine-modified montmorillonite. *Advanced Powder Technology*, **2019**, 30, 1067-1078	4.6	37
20	Microstructural modification of organo-montmorillonite with Gemini surfactant containing four ammonium cations: molecular dynamics (MD) simulations and adsorption capacity for copper ions. *Journal of Chemical Technology and Biotechnology*, **2019**, 94, 3585-3594	3.5	5
19	Effective adsorption of heavy metal ions by sodium lignosulfonate reformed montmorillonite. *International Journal of Biological Macromolecules*, **2019**, 138, 188-197	7.9	35
18	Tyrosine-Immobilized Montmorillonite: An Efficient Adsorbent for Removal of Pb2+ and Cu2+ from Aqueous Solution. *Journal of Chemical & Engineering Data*, **2019**, 64, 3535-3546	2.8	5
17	Synthesis of RGO and g-C3N4 hybrid with WO3/Bi2WO6 to boost degradation of nitroguanidine under visible light irradiation. *Journal of Materials Science: Materials in Electronics*, **2019**, 30, 5503-5515	2.1	
16	Efficient preparation and molecular dynamic (MD) simulations of Gemini surfactant modified layered montmorillonite to potentially remove emerging organic contaminants from wastewater. *Ceramics International*, **2019**, 45, 10782-10791	5.1	19
15	Synthesis and Mechanism of Adsorption Capacity of Modified Montmorillonite with Amino Acids for 4-Acetaminophenol Removal from Wastewaters. *Journal of Chemical & Engineering Data*, **2019**, 64, 5900-5909	2.8	1
14	Facile one-step economical methodology of metal free g-CN synthesis with remarkable photocatalytic performance under visible light to degrade trans-resveratrol. *Journal of Hazardous Materials*, **2019**, 367, 293-303	12.8	26
13	CuS-functionalized cellulose based aerogel as biocatalyst for removal of organic dye. *Journal of Applied Polymer Science*, **2019**, 136, 47404	2.9	23
12	Adsorption and Desorption of Pb(II) on l-Lysine Modified Montmorillonite and the simulation of Interlayer Structure. *Applied Clay Science*, **2019**, 169, 40-47	5.2	69
11	Controllable synthesis of flower-root shaped Bi2O3/Bi2MoO6 heterostructures as an efficient photocatalyst under visible light irradiation. *Journal of Photochemistry and Photobiology A: Chemistry*, **2019**, 372, 78-88	4.7	10
10	Facile hydrothermal synthesis of magnetic adsorbent CoFeO/MMT to eliminate antibiotics in aqueous phase: tetracycline and ciprofloxacin. *Environmental Science and Pollution Research*, **2019**, 26, 215-226	5.1	13
9	Adsorption properties, kinetics & thermodynamics of tetracycline on carboxymethyl-chitosan reformed montmorillonite. *International Journal of Biological Macromolecules*, **2019**, 124, 557-567	7.9	78

8	Synthesis of environmentally encouraged, highly robust pollutants reduction 3-D system consisting of Ag/g-C3N4 and Cu-complex to degrade refractory pollutants. *Journal of Photochemistry and Photobiology A: Chemistry*, **2018**, 364, 826-836	4.7	32
7	Adsorption Properties of Pb2+ by Amino Group‐Functionalized Montmorillonite from Aqueous Solutions. *Journal of Chemical & Engineering Data*, **2018**, 63, 2940-2949	2.8	12
6	Novel multi amine-containing Gemini surfactant modified montmorillonite as adsorbents for removal of phenols. *Applied Clay Science*, **2018**, 162, 204-213	5.2	36
5	Sensitization of TiO nanosheets with Cu-biphenylamine framework to enhance photocatalytic degradation performance of toxic organic contaminants: synthesis, mechanism and kinetic studies. *Nanotechnology*, **2018**, 29, 375605	3.4	23
4	Encapsulating nano rods of copper‐biphenylamines framework on g-C3N4 photocatalysts for visible-light-driven organic dyes degradation: promoting charge separation efficiency. *Catalysis Science and Technology*, **2017**, 7, 3017-3026	5.5	37
3	Facile solvothermal synthesis of a high-efficiency CNNs/Ag/AgCl plasmonic photocatalyst. *Physical Chemistry Chemical Physics*, **2016**, 18, 27257-27264	3.6	20
2	Molecular dynamics study of polyether polyamino methylene phosphonates as an inhibitor of anhydrite crystal. *Desalination*, **2013**, 322, 137-143	10.3	46
1	Modeling the interaction of seven bisphosphonates with the hydroxyapatite(100) face. *Journal of Molecular Modeling*, **2012**, 18, 4007-12	2	19