

Sidi Zhu

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Rapid removal of toxic metals Cu ²⁺ and Pb ²⁺ by amino trimethylene phosphonic acid intercalated layered double hydroxide: A combined experimental and DFT study. <i>Chemical Engineering Journal</i> , 2020 , 392, 123711	14.7	79
60	Adsorption properties, kinetics & thermodynamics of tetracycline on carboxymethyl-chitosan reformed montmorillonite. <i>International Journal of Biological Macromolecules</i> , 2019 , 124, 557-567	7.9	78
59	Adsorption and Desorption of Pb(II) on L-Lysine Modified Montmorillonite and the simulation of Interlayer Structure. <i>Applied Clay Science</i> , 2019 , 169, 40-47	5.2	69
58	Rapid and efficient removal of diclofenac sodium from aqueous solution via ternary core-shell CS@PANI@LDH composite: Experimental and adsorption mechanism study. <i>Journal of Hazardous Materials</i> , 2021 , 402, 123815	12.8	50
57	Molecular dynamics study of polyether polyamino methylene phosphonates as an inhibitor of anhydrite crystal. <i>Desalination</i> , 2013 , 322, 137-143	10.3	46
56	Exploration of adsorption mechanism of 2-phosphonobutane-1,2,4-tricarboxylic acid onto kaolinite and montmorillonite via batch experiment and theoretical studies. <i>Journal of Hazardous Materials</i> , 2021 , 403, 123810	12.8	41
55	Encapsulating nano rods of copperBiphenylamines framework on g-C ₃ N ₄ photocatalysts for visible-light-driven organic dyes degradation: promoting charge separation efficiency. <i>Catalysis Science and Technology</i> , 2017 , 7, 3017-3026	5.5	37
54	Kinetics and equilibrium isotherms of adsorption of Pb(II) and Cu(II) onto raw and arginine-modified montmorillonite. <i>Advanced Powder Technology</i> , 2019 , 30, 1067-1078	4.6	37
53	Novel multi amine-containing Gemini surfactant modified montmorillonite as adsorbents for removal of phenols. <i>Applied Clay Science</i> , 2018 , 162, 204-213	5.2	36
52	Effective adsorption of heavy metal ions by sodium lignosulfonate reformed montmorillonite. <i>International Journal of Biological Macromolecules</i> , 2019 , 138, 188-197	7.9	35
51	Synthesis of environmentally encouraged, highly robust pollutants reduction 3-D system consisting of Ag/g-C ₃ N ₄ and Cu-complex to degrade refractory pollutants. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018 , 364, 826-836	4.7	32
50	Mesoporous CuS nanospheres decorated rGO aerogel for high photocatalytic activity towards Cr(VI) and organic pollutants. <i>Chemosphere</i> , 2020 , 246, 125846	8.4	32
49	A new alendronate doped HAP nanomaterial for Pb, Cu and Cd effect absorption. <i>Journal of Hazardous Materials</i> , 2020 , 400, 123143	12.8	31
48	Facile synthesis of protonated g-C ₃ N ₄ and acid-activated montmorillonite composite with efficient adsorption capacity for PO ₄ ³⁻ and Pb(II). <i>Chemical Engineering Research and Design</i> , 2019 , 152, 95-105	5.5	28
47	The facile synthesis of zoledronate functionalized hydroxyapatite amorphous hybrid nanobiomaterial and its excellent removal performance on Pb and Cu. <i>Journal of Hazardous Materials</i> , 2020 , 392, 122291	12.8	27
46	Facile one-step economical methodology of metal free g-CN synthesis with remarkable photocatalytic performance under visible light to degrade trans-resveratrol. <i>Journal of Hazardous Materials</i> , 2019 , 367, 293-303	12.8	26
45	Peroxymonosulfate activation through 2D/2D Z-scheme CoAl-LDH/BiOBr photocatalyst under visible light for ciprofloxacin degradation. <i>Journal of Hazardous Materials</i> , 2021 , 420, 126613	12.8	24

44	Mechanism of carboxymethyl chitosan hybrid montmorillonite and adsorption of Pb(II) and Congo red by CMC-MMT organic-inorganic hybrid composite. <i>International Journal of Biological Macromolecules</i> , 2020 , 149, 1161-1169	7.9	23
43	CuS-functionalized cellulose based aerogel as biocatalyst for removal of organic dye. <i>Journal of Applied Polymer Science</i> , 2019 , 136, 47404	2.9	23
42	Sensitization of TiO nanosheets with Cu-biphenylamine framework to enhance photocatalytic degradation performance of toxic organic contaminants: synthesis, mechanism and kinetic studies. <i>Nanotechnology</i> , 2018 , 29, 375605	3.4	23
41	Water decontamination by 3D graphene based materials: A review. <i>Journal of Water Process Engineering</i> , 2020 , 36, 101404	6.7	22
40	Synthesis and micro-mechanistic studies of histidine modified montmorillonite for lead(II) and copper(II) adsorption from wastewater. <i>Chemical Engineering Research and Design</i> , 2020 , 157, 142-152	5.5	21
39	Facile solvothermal synthesis of a high-efficiency CNNs/Ag/AgCl plasmonic photocatalyst. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 27257-27264	3.6	20
38	Modeling the interaction of seven bisphosphonates with the hydroxyapatite(100) face. <i>Journal of Molecular Modeling</i> , 2012 , 18, 4007-12	2	19
37	Efficient preparation and molecular dynamic (MD) simulations of Gemini surfactant modified layered montmorillonite to potentially remove emerging organic contaminants from wastewater. <i>Ceramics International</i> , 2019 , 45, 10782-10791	5.1	19
36	Molecular dynamics simulations of the binding affinity of 1-hydroxyethane-1, 1-diphosphonic acid (HEDP) with nano-hydroxyapatite and the uptake of Cu by HEDP-HAP hybrid systems. <i>Journal of Hazardous Materials</i> , 2020 , 383, 121206	12.8	19
35	Facile synthesis of CNS/TNS sensitized with Cu biphenylamine frameworks for remarkable photocatalytic activity for organic pollutants degradation and bacterial inactivation. <i>Solar Energy</i> , 2019 , 186, 204-214	6.8	17
34	New insights into the capture performance and mechanism of hazardous metals Cr and Cd onto an effective layered double hydroxide based material.. <i>Journal of Hazardous Materials</i> , 2021 , 426, 128062	12.8	16
33	Methionine-montmorillonite composite [A novel material for efficient adsorption of lead ions. <i>Advanced Powder Technology</i> , 2020 , 31, 708-717	4.6	16
32	Facile hydrothermal synthesis of magnetic adsorbent CoFeO/MMT to eliminate antibiotics in aqueous phase: tetracycline and ciprofloxacin. <i>Environmental Science and Pollution Research</i> , 2019 , 26, 215-226	5.1	13
31	Adsorption Properties of Pb ²⁺ by Amino Group β Functionalized Montmorillonite from Aqueous Solutions. <i>Journal of Chemical & Engineering Data</i> , 2018 , 63, 2940-2949	2.8	12
30	In-Depth Study of Heavy Metal Removal by an Etidronic Acid-Functionalized Layered Double Hydroxide.. <i>ACS Applied Materials & Interfaces</i> , 2022 ,	9.5	12
29	Microscopic adsorption mechanism of montmorillonite for common ciprofloxacin emerging contaminant: Molecular dynamics simulation and Multiwfn wave function analysis. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021 , 614, 126186	5.1	12
28	The synergistic effect and microscopic mechanism of co-adsorption of three emerging contaminants and copper ion on gemini surfactant modified montmorillonite. <i>Ecotoxicology and Environmental Safety</i> , 2019 , 184, 109610	7	11
27	Controllable synthesis of flower-root shaped Bi ₂ O ₃ /Bi ₂ MoO ₆ heterostructures as an efficient photocatalyst under visible light irradiation. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2019 , 372, 78-88	4.7	10

26	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. <i>Journal of Hazardous Materials</i> , 2021 , 401, 123748	12.8	10
25	Three-dimension hierarchical composite via in-situ growth of Zn/Al layered double hydroxide plates onto polyaniline-wrapped carbon sphere for efficient naproxen removal. <i>Journal of Hazardous Materials</i> , 2022 , 423, 127192	12.8	10
24	Adsorption of two blocker pollutants on modified montmorillonite with environment-friendly cationic surfactant containing amide group: Batch adsorption experiments and Multiwfn wave function analysis. <i>Journal of Colloid and Interface Science</i> , 2021 , 590, 601-613	9.3	9
23	Facile immobilization of ethylenediamine tetramethylene-phosphonic acid into UiO-66 for toxic divalent heavy metal ions removal: An experimental and theoretical exploration. <i>Science of the Total Environment</i> , 2022 , 806, 150652	10.2	8
22	Adsorption properties and mechanism of montmorillonite modified by two Gemini surfactants with different chain lengths for three benzotriazole emerging contaminants: Experimental and theoretical study. <i>Applied Clay Science</i> , 2021 , 207, 106086	5.2	8
21	Experimental and theoretical study on the adsorption mechanism of Amino trimethylphosphate (ATMP) functionalized hydroxyapatite on Pb (II) and Cd (II). <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021 , 626, 127029	5.1	6
20	Microstructural modification of organo-montmorillonite with Gemini surfactant containing four ammonium cations: molecular dynamics (MD) simulations and adsorption capacity for copper ions. <i>Journal of Chemical Technology and Biotechnology</i> , 2019 , 94, 3585-3594	3.5	5
19	Tyrosine-Immobilized Montmorillonite: An Efficient Adsorbent for Removal of Pb ²⁺ and Cu ²⁺ from Aqueous Solution. <i>Journal of Chemical & Engineering Data</i> , 2019 , 64, 3535-3546	2.8	5
18	Investigation of the efficient adsorption performance and adsorption mechanism of 3D composite structure La nanosphere-coated Mn/Fe layered double hydroxide on phosphate.. <i>Journal of Colloid and Interface Science</i> , 2022 , 614, 478-488	9.3	5
17	The adsorption performance and micro-mechanism of MoS ₂ /montmorillonite composite to atenolol and acebutolol: Adsorption experiments and a novel visual study of interaction. <i>Ecotoxicology and Environmental Safety</i> , 2021 , 213, 111993	7	5
16	The enhanced adsorption of Ampicillin and Amoxicillin on modified montmorillonite with dodecyl dimethyl benzyl ammonium chloride: Experimental study and density functional theory calculation. <i>Advanced Powder Technology</i> , 2021 , 32, 3465-3475	4.6	5
15	Porous P, Fe-doped g-CN nanostructure with enhanced photo-Fenton activity for removal of tetracycline hydrochloride: Mechanism insight, DFT calculation and degradation pathways. <i>Chemosphere</i> , 2021 , 133039	8.4	4
14	The interaction and mechanism between threonine-montmorillonite composite and Pb ²⁺ or Cu ²⁺ : Experimental study and theory calculation. <i>Journal of Molecular Liquids</i> , 2021 , 326, 115243	6	3
13	The adsorption and mechanism of benzothiazole and 2-hydroxybenzothiazole onto a novel ampholytic surfactant modified montmorillonite: Experimental and theoretical study. <i>Advanced Powder Technology</i> , 2021 , 32, 1219-1232	4.6	2
12	Synthesis and characterisation of (Fe, Co, Ni)-polyoxometalates to degrade O, O-diethyl-S-(p-tolyl) phosphorothioate under visible light irradiation. <i>International Journal of Environmental Analytical Chemistry</i> , 2020 , 100, 1376-1389	1.8	2
11	The ratiometric detection and mechanism of three typical phosphonates by quercetin-based fluorescent probe with low detection limits. <i>Journal of Luminescence</i> , 2021 , 231, 117778	3.8	2
10	Preparation of spherical filler-like ZnFeO/BiMoO surrounded by nanosheets and its photocatalytic applications. <i>Environmental Technology (United Kingdom)</i> , 2021 , 42, 2077-2084	2.6	2
9	The removal of benzothiazole by combined inorgano-organo-montmorillonite modified with hydroxyl iron pillar and cationic panthenol intercalation: Experimental study and Multiwfn wavefunction analysis. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021 , 626, 127025	5.1	2

8	Synthesis and Mechanism of Adsorption Capacity of Modified Montmorillonite with Amino Acids for 4-Acetaminophenol Removal from Wastewaters. <i>Journal of Chemical & Engineering Data</i> , 2019 , 64, 5900-5909	2.8	1
7	Facile synthesis of rock-like Ag ₂ ZrO ₃ decorated with TiO ₂ nanoparticles heterostructures with highly enhanced visible-light photocatalytic properties. <i>Journal of Nanoparticle Research</i> , 2020 , 22, 1	2.3	0
6	The uptake performance and microscopic mechanism of inorganic-organic phosphorus hybrid amorphous hydroxyapatite for multiple heavy metal ions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022 , 640, 128384	5.1	0
5	A facile synthesis of ibandronate modified hydroxyapatite renewable nanomaterials for simultaneous removal of Cu ²⁺ /Pb ²⁺ and chlortetracycline: Experimental design and adsorption mechanism study. <i>Journal of Cleaner Production</i> , 2022 , 132173	10.3	0
4	An efficient Two-Chamber Electrodeposition-Electrodialysis combination craft for nickel recovery and phosphorus removal from spent electroless nickel plating bath. <i>Separation and Purification Technology</i> , 2022 , 295, 121283	8.3	0
3	The off-on fluorescent probe based on salicylic acid for rapid and selective detection of 1-hydroxyethane-1,1-diphosphonic acid. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2022 , 426, 113740	4.7	
2	Synthesis of RGO and g-C ₃ N ₄ hybrid with WO ₃ /Bi ₂ WO ₆ to boost degradation of nitroguanidine under visible light irradiation. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 5503-5515	2.1	
1	Synthesis, characterization and applications of 3D porous graphene hierarchical structure by direct carbonization of maleic acid. <i>Ceramics International</i> , 2022 , 48, 8409-8416	5.1	