

Sidi Zhu

List of Publications by Year in descending order

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62
papers

2,513
citations

172457

29
h-index

197818

49
g-index

62
all docs

62
docs citations

62
times ranked

1685
citing authors

#	ARTICLE	IF	CITATIONS
1	New insights into the capture performance and mechanism of hazardous metals Cr ³⁺ and Cd ²⁺ onto an effective layered double hydroxide based material. <i>Journal of Hazardous Materials</i> , 2022, 426, 128062.	12.4	155
2	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.	12.4	150
3	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	149
4	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.	12.7	147
5	Adsorption properties, kinetics & thermodynamics of tetracycline on carboxymethyl-chitosan reformed montmorillonite. <i>International Journal of Biological Macromolecules</i> , 2019, 124, 557-567.	7.5	119
6	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.	12.4	113
7	In-Depth Study of Heavy Metal Removal by an Etidronic Acid-Functionalized Layered Double Hydroxide. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 7450-7463.	8.0	107
8	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.	12.4	94
9	A new alendronate doped HAP nanomaterial for Pb ²⁺ , Cu ²⁺ and Cd ²⁺ effect absorption. <i>Journal of Hazardous Materials</i> , 2020, 400, 123143.	12.4	65
10	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.	12.4	65
11	Effective adsorption of heavy metal ions by sodium lignosulfonate reformed montmorillonite. <i>International Journal of Biological Macromolecules</i> , 2019, 138, 188-197.	7.5	63
12	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	54
13	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.	4.1	53
14	Facile one-step economical methodology of metal free g-C ₃ N ₄ synthesis with remarkable photocatalytic performance under visible light to degrade trans-resveratrol. <i>Journal of Hazardous Materials</i> , 2019, 367, 293-303.	12.4	53
15	Mesoporous CuS nanospheres decorated rGO aerogel for high photocatalytic activity towards Cr(VI) and organic pollutants. <i>Chemosphere</i> , 2020, 246, 125846.	8.2	52
16	Molecular dynamics study of polyether polyamino methylene phosphonates as an inhibitor of anhydrite crystal. <i>Desalination</i> , 2013, 322, 137-143.	8.2	51
17	Porous P, Fe-doped g-C ₃ N ₄ nanostructure with enhanced photo-Fenton activity for removal of tetracycline hydrochloride: Mechanism insight, DFT calculation and degradation pathways. <i>Chemosphere</i> , 2022, 291, 133039.	8.2	50
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.	9.4	50

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19	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.	7.5	45
20	Encapsulating nano rods of copperâ€“biphenylamines framework on g-C₃N₄ photocatalysts for visible-light-driven organic dyes degradation: promoting charge separation efficiency. <i>Catalysis Science and Technology</i> , 2017, 7, 3017-3026.	4.1	43
21	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.	8.0	43
22	Facile synthesis of protonated g-C3N4 and acid-activated montmorillonite composite with efficient adsorption capacity for PO4 ³⁻ and Pb(II). <i>Chemical Engineering Research and Design</i> , 2019, 152, 95-105.	5.6	42
23	The facile synthesis of zoledronate functionalized hydroxyapatite amorphous hybrid nanobiomaterial and its excellent removal performance on Pb ²⁺ and Cu ²⁺ . <i>Journal of Hazardous Materials</i> , 2020, 392, 122291.	12.4	42
24	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.	5.6	38
25	Water decontamination by 3D graphene based materials: A review. <i>Journal of Water Process Engineering</i> , 2020, 36, 101404.	5.6	37
26	Cuâ€“functionalized cellulose based aerogel as biocatalyst for removal of organic dye. <i>Journal of Applied Polymer Science</i> , 2019, 136, 47404.	2.6	35
27	Synthesis of environmentally encouraged, highly robust pollutants reduction 3-D system consisting of Ag/g-C3N4 and Cu-complex to degrade refractory pollutants. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018, 364, 826-836.	3.9	34
28	Molecular dynamics simulations of the binding affinity of 1-hydroxyethane-1, 1-diphosphonic acid (HEDP) with nano-hydroxyapatite and the uptake of Cu ²⁺ by HEDP-HAP hybrid systems. <i>Journal of Hazardous Materials</i> , 2020, 383, 121206.	12.4	33
29	Sensitization of TiO₂ nanosheets with Cuâ€“biphenylamine framework to enhance photocatalytic degradation performance of toxic organic contaminants: synthesis, mechanism and kinetic studies. <i>Nanotechnology</i> , 2018, 29, 375605.	2.6	31
30	Microstructural modification of organoâ€“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.	3.2	30
31	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.	4.8	30
32	Methionine-montmorillonite composite â€“ A novel material for efficient adsorption of lead ions. <i>Advanced Powder Technology</i> , 2020, 31, 708-717.	4.1	27
33	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.	4.7	27
34	Efficient absorption properties of surface grafted HEDP-HAP composites for Pb ²⁺ and Cu ²⁺ : 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.	12.4	26
35	Adsorption Properties of Pb ²⁺ by Amino Groupâ€“s Functionalized Montmorillonite from Aqueous Solutions. <i>Journal of Chemical & Engineering Data</i> , 2018, 63, 2940-2949.	1.9	25
36	Adsorption of two β -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.	9.4	25

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37	Modeling the interaction of seven bisphosphonates with the hydroxyapatite(100) face. <i>Journal of Molecular Modeling</i> , 2012, 18, 4007-4012.	1.8	24
38	Facile hydrothermal synthesis of magnetic adsorbent CoFe ₂ O ₄ /MMT to eliminate antibiotics in aqueous phase: tetracycline and ciprofloxacin. <i>Environmental Science and Pollution Research</i> , 2019, 26, 215-226.	5.3	23
39	Facile solvothermal synthesis of a high-efficiency CNNs/Ag/AgCl plasmonic photocatalyst. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 27257-27264.	2.8	22
40	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.	6.0	22
41	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.	4.7	20
42	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	19
43	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.	6.1	18
44	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.	6.0	18
45	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.	3.9	17
46	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.	4.9	17
47	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.	4.1	17
48	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.	1.9	16
49	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.	7.9	14
50	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, 361, 132173.	9.3	11
51	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.	4.7	8
52	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.	1.9	6
53	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.	3.1	6
54	Preparation of spherical filler-like ZnFe ₂ O ₄ /Bi ₂ MoO ₆ surrounded by nanosheets and its photocatalytic applications. <i>Environmental Technology (United Kingdom)</i> , 2021, 42, 2077-2084.	2.2	6

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55	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.	4.1	6
56	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.	4.7	5
57	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.	3.3	4
58	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.	1.9	4
59	A novel LaFeO ₃ catalyst synthesized from sodium diethylenetriamine pentamethylene phosphonate for degradation of diclofenac through peroxymonosulfate activation: degradation pathways and mechanism study. <i>Reaction Chemistry and Engineering</i> , 2021, 6, 2411-2424.	3.7	3
60	Synthesis, characterization and applications of 3D porous graphene hierarchical structure by direct carbonization of maleic acid. <i>Ceramics International</i> , 2022, 48, 8409-8416.	4.8	3
61	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.	3.9	1
62	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.	2.2	0