

Muhammad Asim Khan

List of Publications by Year in descending order

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52
papers

2,265
citations

186265
28
h-index

214800
47
g-index

52
all docs

52
docs citations

52
times ranked

1748
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	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
4	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
5	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
6	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
7	Facile synthesis of cinnamic acid sensitized rice husk biochar for removal of organic dyes from wastewaters: Batch experimental and theoretical studies. <i>Materials Chemistry and Physics</i> , 2022, 288, 126327.	4.0	14
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	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
10	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
11	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
12	Review on the hazardous applications and photodegradation mechanisms of chlorophenols over different photocatalysts. <i>Environmental Research</i> , 2021, 195, 110742.	7.5	111
13	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
14	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
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	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
17	Methionine-montmorillonite composite – A novel material for efficient adsorption of lead ions. <i>Advanced Powder Technology</i> , 2020, 31, 708-717.	4.1	27
18	Pristine Co(BDC)TEDO.5 a pillared-layer biligand cobalt based metal organic framework as improved anode material for lithium-ion batteries. <i>Applied Materials Today</i> , 2020, 21, 100813.	4.3	29

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19	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
20	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
21	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
22	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
23	Organocatalyzed Solvent Free and Efficient Synthesis of 2,4,5-Trisubstituted Imidazoles as Potential Acetylcholinesterase Inhibitors for Alzheimer's Disease. <i>Chemistry and Biodiversity</i> , 2020, 17, e1900493.	2.1	11
24	Achieving quick charge/discharge rate of 3.0A ⁻¹ by 2D titanium carbide (MXene) via N-doped carbon intercalation. <i>Materials Letters</i> , 2019, 234, 21-25.	2.6	31
25	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.	3.2	30
26	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
27	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
28	Highly sensitivity electrochemical sensor based on ErGO/MWCNTs nanohybrid for 2,4-dinitroanisole electroanalysis. <i>Microchemical Journal</i> , 2019, 151, 104226.	4.5	8
29	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
30	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.	5.6	42
31	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
32	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
33	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
34	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
35	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
36	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

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37	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
38	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
39	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
40	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
41	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.	3.9	34
42	Design of Graphene Nanoplatelet/Graphitic Carbon Nitride Heterojunctions by Vacuum Tube with Enhanced Photocatalytic and Electrochemical Response. <i>European Journal of Inorganic Chemistry</i> , 2018, 2018, 1726-1732.	2.0	18
43	Preparation of g-C ₃ N ₄ /TiO ₂ /BiVO ₄ composite and its application in photocatalytic degradation of pollutant from TATB production under visible light irradiation. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018, 358, 246-255.	3.9	18
44	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
45	Sensitization of TiO ₂ nanosheets with Cu ^{II} -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
46	Green and Facile Reaction of Gabapentin with Sulfonyl Chlorides to Synthesize Lactams and Sulfonamides Derivatives in Aqueous Medium. <i>Letters in Organic Chemistry</i> , 2018, 15, .	0.5	4
47	Efficient and stable ZrO ₂ /Fe modified hollow-C ₃ N ₄ for photodegradation of the herbicide MTSM. <i>RSC Advances</i> , 2017, 7, 3966-3974.	3.6	25
48	Organocatalyzed and mechanochemical solvent-free synthesis of novel and functionalized bis-biphenyl substituted thiazolidinones as potent tyrosinase inhibitors: SAR and molecular modeling studies. <i>European Journal of Medicinal Chemistry</i> , 2017, 134, 406-414.	5.5	27
49	Encapsulating nano rods of copper ^{II} -biphenylamines 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.	4.1	43
50	Enhanced photo-electrochemical, photo-degradation and charge separation ability of graphitic carbon nitride (g-C ₃ N ₄) by self-type metal free heterojunction formation for antibiotic degradation. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2017, 348, 118-124.	3.9	31
51	Novel biphenyl bis-sulfonamides as acetyl and butyrylcholinesterase inhibitors: Synthesis, biological evaluation and molecular modeling studies. <i>Bioorganic Chemistry</i> , 2016, 64, 13-20.	4.1	56
52	Synthesis, characterization, lipoxigenase inhibitory activity and in silico molecular docking of biaryl bis(benzenesulfonamide) and indol-3-yl-hydrazide derivatives. <i>Journal of the Iranian Chemical Society</i> , 2015, 12, 1123-1130.	2.2	5