Ali Ayati

List of Publications by Year in descending order

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Version: 2024-02-01

53	3,818	212478	198040
papers	citations	28 h-index	52 g-index

53	53	53	4084
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The surfactant-ionic liquid bi-functionalization of chitosan beads for their adsorption performance improvement toward Tartrazine. Environmental Research, 2022, 204, 111961.	3.7	41
2	Substantial improvement in the adsorption behavior of montmorillonite toward Tartrazine through hexadecylamine impregnation. Environmental Research, 2022, 204, 111965.	3.7	30
3	Removal of metal ions using a new magnetic chitosan nano-bio-adsorbent; A powerful approach in water treatment. Environmental Research, 2022, 203, 111753.	3.7	185
4	Recent advances in removal techniques of Cr(VI) toxic ion from aqueous solution: A comprehensive review. Journal of Molecular Liquids, 2021, 329, 115062.	2.3	332
5	Preparation and characterization of ionic and non-ionic surfactants impregnated Î¹-carrageenan hydrogel beads for investigation of the adsorptive mechanism of cationic dye to develop for biomedical applications. Journal of Molecular Liquids, 2021, 324, 115118.	2.3	36
6	Recent advances in using of chitosan-based adsorbents for removal of pharmaceutical contaminants: A review. Journal of Cleaner Production, 2021, 291, 125880.	4.6	373
7	Novel 1-butyl-3-methylimidazolium bromide impregnated chitosan hydrogel beads nanostructure as an efficient nanobio-adsorbent for cationic dye removal: Kinetic study. Environmental Research, 2021, 195, 110809.	3.7	234
8	A critical review on the use of potentiometric based biosensors for biomarkers detection. Biosensors and Bioelectronics, 2021, 184, 113252.	5.3	343
9	Heterogeneous UV-Switchable Au nanoparticles decorated tungstophosphoric acid/TiO2 for efficient photocatalytic degradation process. Chemosphere, 2021, 281, 130795.	4.2	178
10	Functionalized cellulose-preyssler heteropolyacid bio-composite: An engineered and green matrix for selective, fast and inâ€“situ preparation of Pd nanostructures: synthesis, characterization and application. Arabian Journal of Chemistry, 2020, 13, 4644-4660.	2.3	13
11	Efficient carbon interlayed magnetic chitosan adsorbent for anionic dye removal: Synthesis, characterization and adsorption study. International Journal of Biological Macromolecules, 2020, 164, 3621-3631.	3.6	85
12	Efficient tetracycline adsorptive removal using tricaprylmethylammonium chloride conjugated chitosan hydrogel beads: Mechanism, kinetic, isotherms and thermodynamic study. International Journal of Biological Macromolecules, 2020, 155, 421-429.	3.6	82
13	UV-switchable phosphotungstic acid sandwiched between ZIF-8 and Au nanoparticles to improve simultaneous adsorption and UV light photocatalysis toward tetracycline degradation. Microporous and Mesoporous Materials, 2020, 303, 110275.	2.2	56
14	Recent advance in antibacterial activity of nanoparticles contained polyurethane. Journal of Applied Polymer Science, 2019, 136, 46997.	1.3	29
15	Novel Aliquat-336 impregnated chitosan beads for the adsorptive removal of anionic azo dyes. International Journal of Biological Macromolecules, 2019, 125, 989-998.	3.6	52
16	Ionic liquid-modified composites for the adsorptive removal of emerging water contaminants: A review. Journal of Molecular Liquids, 2019, 275, 71-83.	2.3	73
17	Magnetic xanthate modified chitosan as an emerging adsorbent for cationic azo dyes removal: Kinetic, thermodynamic and isothermal studies. International Journal of Biological Macromolecules, 2019, 121, 1126-1134.	3.6	86
18	Application of the response surface methodology for optimizing the adsorptive removal of chromate using a magnetic crosslinked chitosan nanocomposite. Journal of Applied Polymer Science, 2019, 136, 47077.	1.3	24

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19	Partially carboxymethylated and partially cross-linked surface of chitosan versus the adsorptive removal of dyes and divalent metal ions. Carbohydrate Polymers, 2018, 197, 586-597.	5.1	76
20	Neuro-fuzzy modeling to adsorptive performance of magnetic chitosan nanocomposite. Journal of Nanostructure in Chemistry, 2017, 7, 29-36.	5.3	19
21	Magnetic EDTA Functionalized Preyssler Cross Linked Chitosan Nanocomposite for Adsorptive Removal of Pb(II) Ions. Clean - Soil, Air, Water, 2017, 45, 1700328.	0.7	31
22	H ₄ [W ₁₂ SiO ₄₀] grafted on magnetic chitosan: a green nanocatalyst for the synthesis of [1,2,4]triazolo/benzimidazolo quinazolinone derivatives. Micro and Nano Letters, 2017, 12, 964-969.	0.6	14
23	Lead(II)â€ion removal by ethylenediaminetetraacetic acid ligand functionalized magnetic chitosanâ€“aluminum oxideâ€“iron oxide nanoadsorbents and microadsorbents: Equilibrium, kinetics, and thermodynamics. Journal of Applied Polymer Science, 2017, 134, .	1.3	33
24	Response surface methodology approach for optimization of methyl orange adsorptive removal by magnetic chitosan nanocomposite. Macedonian Journal of Chemistry and Chemical Engineering, 2017, 36, .	0.2	5
25	A novel magnetic Preyssler acid grafted chitosan nano adsorbent: synthesis, characterization and adsorption activity. Journal of Chemical Technology and Biotechnology, 2016, 91, 1452-1460.	1.6	52
26	H3PMo12O40 immobilized chitosan/Fe3O4 as a novel efficient, green and recyclable nanocatalyst in the synthesis of pyrano-pyrazole derivatives. Journal of the Iranian Chemical Society, 2016, 13, 2301-2308.	1.2	30
27	Photocatalytic degradation of nitrobenzene by gold nanoparticles decorated polyoxometalate immobilized TiO2 nanotubes. Separation and Purification Technology, 2016, 171, 62-68.	3.9	47
28	A magnetic mesoporous chitosan based coreâ€shells biopolymer for anionic dye adsorption: Kinetic and isothermal study and application of <scp>ANN</scp>. Journal of Applied Polymer Science, 2016, 133, .	1.3	46
29	Emerging adsorptive removal of azo dye by metalâ€“organic frameworks. Chemosphere, 2016, 160, 30-44.	4.2	212
30	Synthesis and Characterization of Au NPs/Molybdophosphoric Acid/CNT Tricomponent Nanohybrid. Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry, 2016, 46, 596-601.	0.6	0
31	Investigation of linear alkylbenzene synthesis using nanotitania-supported Dawson heteropolyacid as catalyst by statistical design approaches. Research on Chemical Intermediates, 2016, 42, 3283-3301.	1.3	7
32	Phosphotungstic acid (PTA) in the synthesis of 3D CdS superstructures by diffusion assisted hydrothermal method. Advanced Powder Technology, 2015, 26, 1495-1503.	2.0	5
33	Preparation and characterization of a novel chitosan/Al2O3/magnetite nanoparticles composite adsorbent for kinetic, thermodynamic and isotherm studies of Methyl Orange adsorption. Chemical Engineering Journal, 2015, 259, 1-10.	6.6	430
34	Performance of MWCNTs and a low-cost adsorbent for Chromium(VI) ion removal. Journal of Nanostructure in Chemistry, 2014, 4, 171-178.	5.3	34
35	Endohedral functionalisation of multiâ€wall carbon nanotubes by acidic cesium salt of Preyssler in nanosize. Micro and Nano Letters, 2014, 9, 198-201.	0.6	1
36	Synthesis and characterisation of modified carbon nanotubes with potassium salts of the monosubstituted Keggin polyoxometalates. Micro and Nano Letters, 2014, 9, 482-485.	0.6	2

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37	A review on catalytic applications of Au/TiO2 nanoparticles in the removal of water pollutant. Chemosphere, 2014, 107, 163-174.	4.2	271
38	Novel Au NPs/Preyssler acid/TiO2 nanocomposite for the photocatalytic removal of azo dye. Separation and Purification Technology, 2014, 133, 415-420.	3.9	41
39	Amine-functionalized nanosilica-supported Dawson heteropolyacid: an eco-friendly and reusable photocatalyst for photodegradation of malachite green. Journal of Nanostructure in Chemistry, 2014, 4, 1.	5.3	3
40	Acidic cesium salt of Preyssler nanoparticles: a new, green and recyclable nanocatalyst for the synthesis of 6-aryl-1H-pyrazolo[3,4-d]pyrimidin-4[5H]-ones. Journal of Nanostructure in Chemistry, 2014, 4, 1.	5.3	14
41	Preyssler Heteropolyacid: A Green and Eco-friendly Catalyst in the Hydrothermal Synthesis of ZnO Nanostructures and their Applications in Photodegradation of Azo Dyes. Current Nanoscience, 2014, 10, 736-742.	0.7	2
42	Preyssler Heteropolyacid-assisted Rapid and Green Bio-synthesis of Gold Nanoparticles in the Presence of Chaetomorpha linum. Current Nanoscience, 2014, 10, 596-603.	0.7	1
43	Mono-substituted Molybdenium Preyssler Heteropolyacid: An Ecofriendly Photocatalyst for the Syntheses of Gold Nanoparticles in Solution and Titanium Dioxide Surface with Excellent Photoactivity in Combination with Titanium Dioxide. Current Nanoscience, 2014, 11, 80-86.	0.7	1
44	Experimental Study of CMC Evaluation in Single and Mixed Surfactant Systems, Using the UVâ€“Vis Spectroscopic Method. Journal of Surfactants and Detergents, 2013, 16, 357-362.	1.0	46
45	The novel, one step and facile synthesis of ZnO nanoparticles using heteropolyoxometalates and their photoluminescence behavior. Advanced Powder Technology, 2013, 24, 549-553.	2.0	15
46	Synthesis of a nano organo-silicon compound for building materials waterproofing, using heteropolyacids as a green and eco-friendly catalyst. Progress in Organic Coatings, 2013, 76, 384-387.	1.9	14
47	Cesium Salt of Sodium 30-Tungstopentaphosphate: An Effective and Green Polyoxometalate for Synthesis of Gold Nanoparticles along with Decoration of Titanium Dioxide with Gold Nanoparticles for Bleaching of Malachite Green. International Journal of Photoenergy, 2013, 2013, 1-8.	1.4	4
48	OPTIMIZATION OF THE EXPERIMENTAL CONDITIONS IN SYNTHESIS OF Au NPs USING PREYSSLER HETEROPOLYACID BASED ON THE TAGUCHI ROBUST DESIGN. Nano, 2012, 07, 1250002.	0.5	10
49	Green, Rapid and Facile HPMo-Assisted Synthesis of Silver Nanoparticles. Current Nanoscience, 2012, 8, 880-884.	0.7	6
50	Rate redox-controlled green photosynthesis of gold nanoparticles using H3â€‰+â€‰x PMo12â€‰â^'â€‰x V x O40. Gold Bulletin, 2012, 45, 145-151.	1.1	29
51	Recent Advances in Application of Polyoxometalates for the Synthesis of Nanoparticles. Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry, 2012, 42, 209-230.	0.6	31
52	A Green and Simple Route for the Controlled-Size Synthesis of Gold Nanoparticles Using Preyssler Heteropolyacid. Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry, 2012, 42, 1309-1314.	0.6	11
53	Photocatalytic Synthesis of Gold Nanoparticles Using Preyssler Acid and Their Photocatalytic Activity. Chinese Journal of Catalysis, 2011, 32, 978-982.	6.9	23