

Altaf Hussain Pandith

List of Publications by Year in descending order

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46
papers

2,191
citations

471061

17
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253896

43
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46
all docs

46
docs citations

46
times ranked

2358
citing authors

#	ARTICLE	IF	CITATIONS
1	Zinc oxide-decorated multiwalled carbon nanotubes: a selective electrochemical sensor for the detection of Pb(II) ion in aqueous media. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 6178-6189.	1.1	8
2	The emerging role of quantum computations in elucidating adsorption mechanism of heavy metal ions: a review. <i>Chemical Papers</i> , 2022, 76, 3351-3370.	1.0	3
3	Catalytic propensity of biochar decorated with core-shell nZVI@Fe ₃ O ₄ : A sustainable photo-Fenton catalysis of methylene blue dye and reduction of 4-nitrophenol. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107401.	3.3	43
4	Studies on a glutathione coated hollow ZnO modified glassy carbon electrode; a novel Pb(II) selective electrochemical sensor. <i>RSC Advances</i> , 2021, 11, 18270-18278.	1.7	13
5	Citrate coated magnetite: A complete magneto dielectric, electrochemical and DFT study for detection and removal of heavy metal ions. <i>Surfaces and Interfaces</i> , 2021, 23, 101004.	1.5	21
6	Exploring the world of metal nitrides as hydrogen storage materials: a DFT study. <i>Chemical Papers</i> , 2021, 75, 4831.	1.0	3
7	Magnetically recyclable L-cysteine capped Fe ₃ O ₄ nanoadsorbent: A promising pH guided removal of Pb(II), Zn(II) and HCrO ₄ ⁻ contaminants. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105880.	3.3	23
8	Biomass-derived carbon quantum dots: a novel and sustainable fluorescent "ON-OFF" sensor for ferric ions. <i>Analytical Methods</i> , 2021, 13, 4756-4766.	1.3	19
9	Revisiting the Old and Golden Inorganic Material, Zirconium Phosphate: Synthesis, Intercalation, Surface Functionalization, and Metal Ion Uptake. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 22353-22397.	1.8	29
10	Exploring Metal Ion Adsorption and Antifungal Properties of Carbon-Coated Magnetite Composite. <i>ChemistrySelect</i> , 2020, 5, 3208-3216.	0.7	6
11	Enhanced and Selective Adsorption of Zn(II), Pb(II), Cd(II), and Hg(II) Ions by a Dumbbell- and Flower-Shaped Potato Starch Phosphate Polymer: A Combined Experimental and DFT Calculation Study. <i>ACS Omega</i> , 2020, 5, 4853-4867.	1.6	73
12	Enhancing the photoresponse by CdSe@TiO ₂ -based multijunction systems for efficient dye-sensitized solar cells: A theoretical outlook. <i>Journal of Computational Chemistry</i> , 2019, 40, 2444-2452.	1.5	17
13	Microwave-Assisted Hydrothermal Synthesis of Agglomerated Spherical Zirconium Phosphate for Removal of Cs ⁺ and Sr ²⁺ Ions from Aqueous System. , 2019, , 95-108.		4
14	Transition-Metal-Based Multidecker Complexes as Hydrogen Storage Materials: A Theoretical Study. <i>ChemistrySelect</i> , 2019, 4, 5961-5967.	0.7	2
15	Detection and removal of heavy metal ions: a review. <i>Environmental Chemistry Letters</i> , 2019, 17, 1495-1521.	8.3	429
16	Microwave-assisted synthesis of glutathione-coated hollow zinc oxide for the removal of heavy metal ions from aqueous systems. <i>RSC Advances</i> , 2019, 9, 15976-15985.	1.7	18
17	Exploring the effect of different coumarin donors on the optical and photovoltaic properties of azo-bridged push-pull systems: A theoretical approach. <i>International Journal of Quantum Chemistry</i> , 2019, 119, e25979.	1.0	19
18	Removal of heavy metal ions from aqueous system by ion-exchange and biosorption methods. <i>Environmental Chemistry Letters</i> , 2019, 17, 729-754.	8.3	388

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19	Exploring the Effect of Introducing a Bridge on The Efficiency of a Perylene-Brazilein Based Dye-Sensitized Solar Cell System: A Theoretical Perspective. <i>ChemistrySelect</i> , 2018, 3, 2059-2069.	0.7	6
20	Theoretical Studies on the Structure, Optoelectronic and Photosensitizer Applications of NKX Class of Coumarin Dye Molecules. <i>ChemistrySelect</i> , 2018, 3, 2376-2385.	0.7	8
21	A theoretical study of structural, opto-electronic and nonlinear properties of arylboroxine derivatives. <i>Indian Journal of Physics</i> , 2018, 92, 57-68.	0.9	2
22	Chiro-optic and nonlinear optical studies of bridged triarylamine heterohelicenes; A DFT study. <i>Journal of Molecular Structure</i> , 2017, 1142, 1-10.	1.8	6
23	Computational studies on optoelectronic and charge transfer properties of some perylene-based donor-acceptor systems for dye sensitized solar cell applications. <i>International Journal of Quantum Chemistry</i> , 2017, 117, e25332.	1.0	21
24	Exploring the ion exchange and separation capabilities of thermally stable acrylamide zirconium(IV) sulphosalicylate (AaZrSs) composite material. <i>RSC Advances</i> , 2016, 6, 35914-35927.	1.7	17
25	Soft Template Assisted Synthesis of Zirconium Resorcinol Phosphate Nanocomposite Material for the Uptake of Heavy-Metal Ions. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 4820-4829.	1.8	22
26	Hydrogen storage: Materials, methods and perspectives. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 50, 457-469.	8.2	697
27	Adsorption studies of Malachite green on 5-sulphosalicylic acid doped tetraethoxysilane (SATEOS) composite material. <i>RSC Advances</i> , 2015, 5, 92788-92798.	1.7	8
28	Optoelectronic and nonlinear optical properties of triarylamine helicenes: a DFT study. <i>Journal of Molecular Modeling</i> , 2014, 20, 2535.	0.8	28
29	Analysis of vibrational spectra (FT-IR and VCD) and nonlinear optical properties of [Ru(L)3]2+ complexes. <i>Journal of Coordination Chemistry</i> , 2014, 67, 3288-3310.	0.8	17
30	Electron Transport and Nonlinear Optical Properties of Substituted Aryldimesityl Boranes: A DFT Study. <i>PLoS ONE</i> , 2014, 9, e114125.	1.1	33
31	Theoretical investigations on C ₂ H ₄ Nb complex as a potential hydrogen storage system, using moller-plesset (MP2) and density functional theory. <i>International Journal of Quantum Chemistry</i> , 2014, 114, 449-457.	1.0	14
32	Theoretical investigations into spectral and non-linear optical properties of brucine and strychnine using density functional theory. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 131, 461-470.	2.0	21
33	Comparative assessment of QSTR models based on density functional, hartree-fock, AM1, and PM3 methods for acute toxicity of aliphatic compounds toward <i>Vibrio fischeri</i> . <i>International Journal of Quantum Chemistry</i> , 2013, 113, 830-839.	1.0	9
34	Co-solubilization of the Hydrophobic Drugs Carbamazepine and Nifedipine in Aqueous Nonionic Surfactant Media. <i>Journal of Solution Chemistry</i> , 2013, 42, 1374-1392.	0.6	8
35	Preparation and characterization of 5-sulphosalicylic acid doped tetraethoxysilane composite ion-exchange material by sol-gel method. <i>Journal of Hazardous Materials</i> , 2013, 260, 313-322.	6.5	18
36	Toxicity profile of aromatic compounds towards <i>Scenedesmus obliquus</i> : a QSAR study. <i>Canadian Journal of Chemistry</i> , 2013, 91, 943-950.	0.6	3

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37	Sigma donor and pi acceptor characteristics of certain NN-bidentate ligands: a DFT Study. Journal of Coordination Chemistry, 2013, 66, 2308-2315.	0.8	19
38	Unusual aspects of ion pairing effects in room temperature ionic liquids. Journal of Physical Organic Chemistry, 2012, 25, 1243-1246.	0.9	8
39	Density functional theory prediction of geometry and vibrational circular dichroism of bridged triarylamine helicenes. Chemical Physics Letters, 2011, 516, 199-203.	1.2	17
40	A Comparative Study of Two Quantum Chemical Descriptors in Predicting Toxicity of Aliphatic Compounds towards <i>Tetrahymena pyriformis</i> . Organic Chemistry International, 2010, 2010, 1-17.	1.0	10
41	Conformational Analysis and Vibrational Circular Dichroism of Tris(ethylenediamine)ruthenium(II) Complex: A Theoretical Study. Journal of Physical Chemistry A, 2010, 114, 87-92.	1.1	6
42	Thermodynamics of the Na(I)↔H(I), K(I)↔H(I) and Ca(II)↔H(I) exchanges on zirconium(IV)aluminophosphate cation exchanger. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2002, 201, 1-7.	2.3	9
43	Forward and Reverse Ion-Exchange Kinetics for Some Alkali and Alkaline Earth Metal Ions on Amorphous Zirconium(IV) Aluminophosphate. Langmuir, 1999, 15, 7422-7425.	1.6	17
44	Synthesis and Characterization of Zirconium Aluminophosphate. A New Cation Exchanger. Langmuir, 1998, 14, 7353-7358.	1.6	43
45	Synthesis and Characterization of Zirconium-Resorcinol Phosphate; A New Hybrid Cation Exchanger and Dye Adsorbent for Water Treatment. Materials Science Forum, 0, 842, 196-208.	0.3	5
46	Transition-metal-based pentalene complexes as hydrogen storage materials—a theoretical view. International Journal of Energy Research, 0, , .	2.2	1