

Altaf Hussain Pandith

List of Publications by Year in descending order

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Version: 2024-02-01

46
papers

2,191
citations

471061

17
h-index

253896

43
g-index

46
all docs

46
docs citations

46
times ranked

2358
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Hydrogen storage: Materials, methods and perspectives. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 50, 457-469. | 8.2 | 697 |
| 2 | Detection and removal of heavy metal ions: a review. <i>Environmental Chemistry Letters</i> , 2019, 17, 1495-1521. | 8.3 | 429 |
| 3 | 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 |
| 4 | 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 |
| 5 | Synthesis and Characterization of Zirconium Aluminophosphate. A New Cation Exchanger. <i>Langmuir</i> , 1998, 14, 7353-7358. | 1.6 | 43 |
| 6 | 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 |
| 7 | Electron Transport and Nonlinear Optical Properties of Substituted Aryldimesityl Boranes: A DFT Study. <i>PLoS ONE</i> , 2014, 9, e114125. | 1.1 | 33 |
| 8 | 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 |
| 9 | Optoelectronic and nonlinear optical properties of triarylamine helicenes: a DFT study. <i>Journal of Molecular Modeling</i> , 2014, 20, 2535. | 0.8 | 28 |
| 10 | 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 |
| 11 | 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 |
| 12 | 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 |
| 13 | Computational studies on optoelectronic and charge transfer properties of some perylene-based donor- π -acceptor systems for dye sensitized solar cell applications. <i>International Journal of Quantum Chemistry</i> , 2017, 117, e25332. | 1.0 | 21 |
| 14 | 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 |
| 15 | Sigma donor and pi acceptor characteristics of certain NN-bidentate ligands: a DFT Study. <i>Journal of Coordination Chemistry</i> , 2013, 66, 2308-2315. | 0.8 | 19 |
| 16 | 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 |
| 17 | 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 |
| 18 | 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 |

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|----|---|-----|-----------|
| 19 | Microwave-assisted synthesis of glutathione-coated hollow zinc oxide for the removal of heavy metal ions from aqueous systems. RSC Advances, 2019, 9, 15976-15985. | 1.7 | 18 |
| 20 | 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 |
| 21 | Density functional theory prediction of geometry and vibrational circular dichroism of bridged triarylamine helicenes. Chemical Physics Letters, 2011, 516, 199-203. | 1.2 | 17 |
| 22 | Analysis of vibrational spectra (FT-IR and VCD) and nonlinear optical properties of [Ru(L)3]2+ complexes. Journal of Coordination Chemistry, 2014, 67, 3288-3310. | 0.8 | 17 |
| 23 | Exploring the ion exchange and separation capabilities of thermally stable acrylamide zirconium(IV) sulphosalicylate (AaZrSs) composite material. RSC Advances, 2016, 6, 35914-35927. | 1.7 | 17 |
| 24 | Enhancing the photoresponse by CdSe@TiO ₂ -based multijunction systems for efficient dye-sensitized solar cells: A theoretical outlook. Journal of Computational Chemistry, 2019, 40, 2444-2452. | 1.5 | 17 |
| 25 | Theoretical investigations on C ₂ H ₄ Nb complex as a potential hydrogen storage system, using moller-plesset (MP2) and density functional theory. International Journal of Quantum Chemistry, 2014, 114, 449-457. | 1.0 | 14 |
| 26 | Studies on a glutathione coated hollow ZnO modified glassy carbon electrode; a novel Pb(II) selective electrochemical sensor. RSC Advances, 2021, 11, 18270-18278. | 1.7 | 13 |
| 27 | 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 |
| 28 | 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 |
| 29 | 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> . International Journal of Quantum Chemistry, 2013, 113, 830-839. | 1.0 | 9 |
| 30 | Unusual aspects of ion-pairing effects in room temperature ionic liquids. Journal of Physical Organic Chemistry, 2012, 25, 1243-1246. | 0.9 | 8 |
| 31 | Co-solubilization of the Hydrophobic Drugs Carbamazepine and Nifedipine in Aqueous Nonionic Surfactant Media. Journal of Solution Chemistry, 2013, 42, 1374-1392. | 0.6 | 8 |
| 32 | Adsorption studies of Malachite green on 5-sulphosalicylic acid doped tetraethoxysilane (SATEOS) composite material. RSC Advances, 2015, 5, 92788-92798. | 1.7 | 8 |
| 33 | Theoretical Studies on the Structure, Optoelectronic and Photosensitizer Applications of NKX Class of Coumarin Dye Molecules. ChemistrySelect, 2018, 3, 2376-2385. | 0.7 | 8 |
| 34 | Zinc oxide-decorated multiwalled carbon nanotubes: a selective electrochemical sensor for the detection of Pb(II) ion in aqueous media. Journal of Materials Science: Materials in Electronics, 2022, 33, 6178-6189. | 1.1 | 8 |
| 35 | 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 |
| 36 | Chiro-optic and nonlinear optical studies of bridged triarylamine heterohelicenes; A DFT study. Journal of Molecular Structure, 2017, 1142, 1-10. | 1.8 | 6 |

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|----|---|-----|-----------|
| 37 | Exploring the Effect of Introducing a Bridge on The Efficiency of a Perylene-Brazilein Based Dye System: A Theoretical Perspective. ChemistrySelect, 2018, 3, 2059-2069. | 0.7 | 6 |
| 38 | Exploring Metal Ion Adsorption and Antifungal Properties of Carbon-Coated Magnetite Composite. ChemistrySelect, 2020, 5, 3208-3216. | 0.7 | 6 |
| 39 | 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 |
| 40 | Microwave-Assisted Hydrothermal Synthesis of Agglomerated Spherical Zirconium Phosphate for Removal of Cs ⁺ and Sr ²⁺ Ions from Aqueous System. , 2019, , 95-108. | | 4 |
| 41 | Toxicity profile of aromatic compounds towards <i>Scenedesmus obliquus</i> : a QSAR study. Canadian Journal of Chemistry, 2013, 91, 943-950. | 0.6 | 3 |
| 42 | Exploring the world of metal nitrides as hydrogen storage materials: a DFT study. Chemical Papers, 2021, 75, 4831. | 1.0 | 3 |
| 43 | The emerging role of quantum computations in elucidating adsorption mechanism of heavy metal ions: a review. Chemical Papers, 2022, 76, 3351-3370. | 1.0 | 3 |
| 44 | A theoretical study of structural, opto-electronic and nonlinear properties of arylboroxine derivatives. Indian Journal of Physics, 2018, 92, 57-68. | 0.9 | 2 |
| 45 | Transition-Metal-Based Multidecker Complexes as Hydrogen Storage Materials: A Theoretical Study. ChemistrySelect, 2019, 4, 5961-5967. | 0.7 | 2 |
| 46 | Transition-Metal-Based pentalene complexes as hydrogen storage materials—a theoretical view. International Journal of Energy Research, 0, , . | 2.2 | 1 |