Anil Boda

List of Publications by Year in descending order

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623734 552781 39 728 14 26 h-index citations g-index papers 552 40 40 40 citing authors all docs docs citations times ranked

#	Article	IF	CITATIONS
1	An amide functionalized task specific carbon nanotube for the sorption of tetra and hexa valent actinides: experimental and theoretical insight. RSC Advances, 2016, 6, 39553-39562.	3.6	54
2	Preferential interaction of charged alkali metal ions (guest) within a narrow cavity of cyclic crown ethers (neutral host): A quantum chemical investigation. Computational and Theoretical Chemistry, 2010, 941, 90-101.	1.5	53
3	Benzene-centered tripodal diglycolamides: synthesis, metal ion extraction, luminescence spectroscopy, and DFT studies. Dalton Transactions, 2017, 46, 1431-1438.	3.3	53
4	DFT modeling on the suitable crown ether architecture for complexation with Cs+ and Sr2+ metal ions. Journal of Molecular Modeling, 2011, 17, 1091-1108.	1.8	52
5	Ab initio and density functional theoretical design and screening of model crown ether based ligand (host) for extraction of lithium metal ion (guest): effect of donor and electronic induction. Journal of Molecular Modeling, 2012, 18, 3507-3522.	1.8	49
6	Density functional theoretical analysis of structure, bonding, interaction and thermodynamic selectivity of hexavalent uranium (UO2 2+) and tetravalent plutonium (Pu4+) ion complexes of tetramethyl diglycolamide (TMDGA). Theoretical Chemistry Accounts, 2015, 134, 1.	1.4	49
7	Density Functional Theoretical Investigation of Remarkably High Selectivity of the Cs ⁺ Ion over the Na ⁺ Ion toward Macrocyclic Hybrid Calix-Bis-Crown Ether. Journal of Physical Chemistry A, 2012, 116, 8615-8623.	2.5	40
8	Oxidation state selective sorption behavior of plutonium using N,N-dialkylamide functionalized carbon nanotubes: experimental study and DFT calculation. RSC Advances, 2016, 6, 78692-78701.	3.6	37
9	Dual mode of extraction for Cs ⁺ and Na ⁺ ions with dicyclohexano-18-crown-6 and bis(2-propyloxy)calix[4]crown-6 in ionic liquids: density functional theoretical investigation. RSC Advances, 2014, 4, 22911-22925.	3.6	31
10	Diffusion, permeation and solubility of hydrogen, deuterium and tritium in crystalline tungsten: First principles DFT simulations. International Journal of Hydrogen Energy, 2020, 45, 29095-29109.	7.1	27
11	From microhydration to bulk hydration of Sr2+ metal ion: DFT, MP2 and molecular dynamics study. Journal of Molecular Liquids, 2012, 172, 110-118.	4.9	20
12	Reduction in Coordination Number of Eu(III) on Complexation with Pyrazine Mono- and Di-Carboxylates in Aqueous Medium. Inorganic Chemistry, 2019, 58, 11180-11194.	4.0	20
13	Partition coefficients of macrocyclic crown ethers in water–organic biphasic system: DFT/COSMO-RS approach. Fluid Phase Equilibria, 2010, 288, 111-120.	2.5	15
14	Density Functional Theoretical Modeling of Selective Ligand for the Separation of Zr and Hf Metal Oxycations (ZrO ²⁺ and HfO ²⁺). Separation Science and Technology, 2013, 48, 2397-2409.	2.5	15
15	Thorium decorporation efficacy of rationally-selected biocompatible compounds with relevance to human application. Journal of Hazardous Materials, 2019, 365, 952-961.	12.4	15
16	Adsorption of Gadolinium (Gd ³⁺) lons on the Dibenzo Crown Ether (DBCE) and Dicyclo Hexano Crown Ether (DCHCE) Grafted on the Polystyrene Surface: Insights from All Atom Molecular Dynamics Simulations and Experiments. Journal of Physical Chemistry C, 2019, 123, 12276-12285.	3.1	14
17	Density functional theoretical study on the preferential selectivity of macrocyclic dicyclohexano-18-crown-6 for Sr+2 ion over Th+4 ion during extraction from an aqueous phase to organic phases with different dielectric constants. Journal of Molecular Modeling, 2013, 19, 5277-5291.	1.8	13
18	Complexation of thorium with pyridine monocarboxylate-N-oxides: Thermodynamic and computational studies. Journal of Chemical Thermodynamics, 2018, 122, 13-22.	2.0	13

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19	Structural, luminescence, thermodynamic and theoretical studies on mononuclear complexes of Eu(III) with pyridine monocarboxylate-N-oxides in aqueous solution. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2018, 190, 150-163.	3.9	12
20	Experimental and theoretical insight into the extraction mechanism, kinetics, thermodynamics, complexation and radiolytic stability of novel calix crown ether in ionic liquid with Sr2+. Journal of Molecular Liquids, 2020, 316, 113864.	4.9	12
21	Application of hybrid MOF composite in extraction of f-block elements: Experimental and computational investigation. Chemosphere, 2022, 287, 132232.	8.2	12
22	Adsorption, Absorption, Diffusion, and Permeation of Hydrogen and Its Isotopes in bcc Bulk Fe and Fe(100) Surface: Plane Wave-Based Density Functional Theoretical Investigations. Journal of Physical Chemistry C, 2019, 123, 23951-23966.	3.1	11
23	DFT and MD simulation supplemented experiments for isotopic fractionation of zinc compounds using a macrocyclic crown ether appended polymeric resin. Physical Chemistry Chemical Physics, 2020, 22, 14682-14693.	2.8	11
24	Chemisorption, diffusion and permeation of hydrogen isotopes in bcc bulk cr and cr(100) surface: First-principles dft simulations. Journal of Nuclear Materials, 2021, 543, 152538.	2.7	11
25	From microhydration to bulk hydration of Rb+ metal ion: DFT, MP2 and AIMD simulation study. Journal of Molecular Liquids, 2013, 179, 34-45.	4.9	9
26	Molecular engineering of functionalized crown ether resins for the isotopic enrichment of gadolinium: from computer to column chromatography. Molecular Systems Design and Engineering, 2017, 2, 640-652.	3.4	9
27	Aquatic interaction of uranium with two naturally ubiquitous pyrazine compounds: Speciation studies by experiment and theory. Chemosphere, 2020, 249, 126116.	8.2	9
28	Mechanism unravelling for highly efficient and selective ⁹⁹ TcO ₄ ^{â^'} sequestration utilising crown ether based solvent system from nuclear liquid waste: experimental and computational investigations. RSC Advances, 2022, 12, 3216-3226.	3.6	9
29	Scalar Relativistic Density Functional Theoretical Investigation of Higher Complexation Ability of Substituted 1,10â€Phenanthroline over Bipyridine Towards Am ³⁺ /Eu ³⁺ lons. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2019, 645, 817-829.	1.2	8
30	Anion assisted extraction of $U(VI)$ in alkylammonium ionic liquid: Experimental and DFT studies. Separation and Purification Technology, 2021, 261, 118275.	7.9	8
31	DFT, MD simulations and experimental analysis of adsorptive complexation and isotope separation of gadolinium ion with macrocyclic crown ether embedded polymeric resin. Separation and Purification Technology, 2022, 289, 120709.	7.9	8
32	Molecular modeling guided isotope separation of gadolinium with strong cation exchange resin using displacement chromatography. Separation Science and Technology, 2017, 52, 2300-2307.	2.5	7
33	Ionic liquid as a novel partitioning media. Desalination and Water Treatment, 2012, 38, 323-331.	1.0	5
34	Characterization of Thorium-Pyrazinoic acid complexation and its decorporation efficacy in human cells and blood. Chemosphere, 2021, 271, 129547.	8.2	5
35	Elucidation of complexation of tetra and hexavalent actinides towards an amide ligand in polar and non-polar diluents: Combined experimental and theoretical approach. Polyhedron, 2017, 123, 234-242.	2.2	4
36	The aqueous interaction of neodymium with two omni existent biomoieties – a mechanistic understanding by experimental and theoretical studies. Dalton Transactions, 2021, 50, 16191-16204.	3.3	3

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37	Conformational effect of dicyclo-hexano-18-crown-6 on isotopic fractionation of zinc: DFT approach. , 2014, , .		2
38	Density functional theoretical analysis of micro-adsorption of isotopes of hydrogen molecule and atom by uranium. International Journal of Hydrogen Energy, 2022, 47, 18441-18467.	7.1	2
39	Density functional theoretical tailoring of electronic effect through various substituents on calix[4]areneâ€crownâ€6 for efficient Cs + ion encapsulation and extraction. International Journal of Quantum Chemistry, 2021, 121, e26436.	2.0	1