Bhabatosh Mandal

List of Publications by Year
in descending order

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24	244	932766	996533
papers	citations	10	15
		h-index	g-index

24	24	24	146
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Combined cation-exchange and extraction chromatographic method of preconcentration and concomitant separation of bismuth(III) with high molecular mass liquid cation exchanger. Journal of Hazardous Materials, 2010, 182, 363-370.	6.5	28
2	Combined cation-exchange and solid phase extraction for the selective separation and preconcentration of zinc, copper, cadmium, mercury and cobalt among others using azo-dye functionalized resin. Journal of Chromatography A, 2016, 1440, 1-14.	1.8	24
3	Solid phase extraction, separation and preconcentration of rare elements thorium(IV), uranium(VI), zirconium(IV), cerium(IV) and chromium(III) amid several other foreign ions with eriochrome black T anchored to 3-D networking silica gel. Journal of Chromatography A, 2016, 1451, 1-14.	1.8	22
4	The electronegativity scale of Allred and Rochow: revisited. Theoretical Chemistry Accounts, 2009, 124, 295-301.	0.5	17
5	Combined cation-exchange and extraction chromatographic method of pre-concentration and concomitant separation of Cu(II) with high molecular mass liquid cation exchanger after its online detection. Journal of Chromatography A, 2011, 1218, 5644-5652.	1.8	17
6	Characterization and Density Functional Theory Optimization of a Simultaneous Binder (FSG-XO) of Two Different Species Exploiting HOMOâ€“LUMO Levels: Photoelectronic and Analytical Applications. Journal of Chemical & Engineering Data, 2015, 60, 2197-2208.	1.0	15
7	Exuberant Immobilization of Urease on an Inorganic SiO₂ Support Enhances the Enzymatic Activities by 3-fold for Perennial Utilization. Bioconjugate Chemistry, 2019, 30, 134-147.	1.8	15
8	Solid-phase extraction, separation and preconcentration of titanium(<scp>iv</scp>) with SSG-V10 from some other toxic cations: a molecular interpretation supported by DFT. RSC Advances, 2014, 4, 33923-33934.	1.7	13
9	n-Capric acid-anchored silanized silica gel: its application to sample clean-up of Th(<scp>iv</scp>) sorbed as a dinuclear species in quantified H-bonded dimeric metal-trapping cores. New Journal of Chemistry, 2017, 41, 5542-5554.	1.4	13
10	EBT anchored SiO₂3-D microarray: a simultaneous entrapper of two different metal centers at high and low oxidation states using its highest occupied and lowest unoccupied molecular orbital, respectively. RSC Advances, 2015, 5, 55686-55703.	1.7	11
11	Extraction Chromatographic Method of Preconcentration, Estimation and Concomitant Separation of Vanadium (IV) with Silica Gel-Versatic 10 Composite. Journal of Chromatographic Science, 2014, 52, 1135-1144.	0.7	9
12	Facile Synthesis of a Luminescent Material, PAN@{SiO2}n, Having a Simultaneous Binding Capacity of High and Low Oxidation States: HOMO and LUMO, Quantum-mechanical Descriptor of Break-through Capacity. Analytical Sciences, 2016, 32, 989-998.	0.8	8
13	Ex Cathedra Immobilization of 8-Hydroxyquinoline to Inorganic Carriers via a New Silane Coupling Reagent for Extractive Sample Cleanup of Iron(III). Journal of Chemical & Engineering Data, 2017, 62, 3284-3296.	1.0	7
14	Detection and selective sample clean-up of beryllium(<scp>ii</scp>) through {extractor-HOMO}(:){Be₃O(OH)₂}²⁺ â€¯ion pair complexationâ€™ amidst aluminum(<scp>iii</scp>) and uranium(<scp>vi</scp>) by employing a fluorescent resin: the resin's HOMO amount is a quantitative descriptor of BTC. New Journal of Chemistry, 2018, 42, 9410-9423.	1.4	7
15	Chromatographic method for pre-concentration and separation of Zn(ii) with microalgae and density functional optimization of the extracted species. RSC Advances, 2015, 5, 31205-31218.	1.7	6
16	Dithizone enriched silica gel surface, {SiO2}@DZ obtained in a single step for selective sample clean up of Cd(II) from its congeners employing ion pair. Journal of Environmental Chemical Engineering, 2019, 7, 102864.	3.3	6
17	In vivo detection of fluoride at trace levels and its removal from raw water at neutral pH utilizing a cyanobacterium pigment as a luminescent probe. RSC Advances, 2016, 6, 4410-4421.	1.7	4
18	Fluorescent Resin-Assisted Extraction for Selective Separation and Preconcentration of Mercury(II) and Its Online Detection. Journal of Chemical & Engineering Data, 2017, 62, 2350-2361.	1.0	4

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19	8-Hydroxyquinoline Anchoring 3-D Networking Silica Gel Utilizing Its HOMO as a Metal Trapping Center for Selective Sample Cleanup of Cu(II), Cr(III), and Co(II) and Chemical Speciation of Sorbed Species. Journal of Chemical & Engineering Data, 2019, 64, 5356-5372.	1.0	4
20	A dithizone-anchored silica gel surface, {SiO₂}@DZ for the selective sample cleanup of Gd(<scp>iii</scp>) amidst Fe(<scp>iii</scp>), Th(<scp>iv</scp>), and Ce(<scp>iv</scp>) employing ion pair complexation. New Journal of Chemistry, 2021, 45, 11672-11688.	1.4	4
21	Role of river-derived algae on bioaccumulation in fixed bed reactors; a low-cost safe drinking water plant. Desalination and Water Treatment, 2012, 45, 343-350.	1.0	3
22	â€˜Urease immobilized single-kitâ€™ for sensing of thiourea-glucose pair employing fluorescence â€˜Turn off - Turn onâ€™ and as an efficient sorbent for selective sample cleanup of thiourea. Analytica Chimica Acta, 2021, 1141, 180-193.	2.6	3
23	Detection of Hg(II) amidst several heavy and toxic metal ions after their selective separation by chromatography: rationalization of separation factors in terms of Density Functional (hardness) Index. Desalination and Water Treatment, 2015, 53, 398-412.	1.0	2
24	Multipoint Immobilization at the Inert Center of Urease on Homofunctional Diazo-Activated Silica Gel: A Way of Restoring Room-Temperature Catalytic Sustainability for Perennial Utilization. Langmuir, 2022, 38, 6826-6840.	1.6	2