

Bhabatosh Mandal

List of Publications by Year in descending order

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papers

244
citations

932766
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docs citations

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#	ARTICLE	IF	CITATIONS
1	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. <i>Langmuir</i> , 2022, 38, 6826-6840.	1.6	2
2	Urease immobilized single-kit™ for sensing of thiourea-glucose pair employing fluorescence Turn off - Turn on™ and as an efficient sorbent for selective sample cleanup of thiourea. <i>Analytica Chimica Acta</i> , 2021, 1141, 180-193.	2.6	3
3	A dithizone-anchored silica gel surface, {SiO ₂ }@DZ for the selective sample cleanup of Cd(III) amidst Fe(III), Th(IV), and Ce(IV) employing ion pair complexation. <i>New Journal of Chemistry</i> , 2021, 45, 11672-11688.	1.4	4
4	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. <i>Journal of Chemical & Engineering Data</i> , 2019, 64, 5356-5372.	1.0	4
5	Dithizone enriched silica gel surface, {SiO ₂ }@DZ obtained in a single step for selective sample clean up of Cd(II) from its congeners employing ion pair. <i>Journal of Environmental Chemical Engineering</i> , 2019, 7, 102864.	3.3	6
6	Exuberant Immobilization of Urease on an Inorganic SiO ₂ Support Enhances the Enzymatic Activities by 3-fold for Perennial Utilization. <i>Bioconjugate Chemistry</i> , 2019, 30, 134-147.	1.8	15
7	Detection and selective sample clean-up of beryllium(II) through {extractor-HOMO}(:){Be ₃ O(OH) ₂ } ²⁺ ion pair complexation™ amidst aluminum(III) and uranium(VI) by employing a fluorescent resin: the resin's HOMO amount is a quantitative descriptor of BTC. <i>New Journal of Chemistry</i> , 2018, 42, 8410-8422.	1.4	7
8	n-Capric acid-anchored silanized silica gel: its application to sample clean-up of Th(IV) sorbed as a dinuclear species in quantified H-bonded dimeric metal-trapping cores. <i>New Journal of Chemistry</i> , 2017, 41, 5542-5554.	1.4	13
9	Ex Cathedra Immobilization of 8-Hydroxyquinoline to Inorganic Carriers via a New Silane Coupling Reagent for Extractive Sample Cleanup of Iron(III). <i>Journal of Chemical & Engineering Data</i> , 2017, 62, 3284-3296.	1.0	7
10	Fluorescent Resin-Assisted Extraction for Selective Separation and Preconcentration of Mercury(II) and Its Online Detection. <i>Journal of Chemical & Engineering Data</i> , 2017, 62, 2350-2361.	1.0	4
11	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. <i>Journal of Chromatography A</i> , 2016, 1451, 1-14.	1.8	22
12	Facile Synthesis of a Luminescent Material, PAN@{SiO ₂ } _n , Having a Simultaneous Binding Capacity of High and Low Oxidation States: HOMO and LUMO, Quantum-mechanical Descriptor of Break-through Capacity. <i>Analytical Sciences</i> , 2016, 32, 989-998.	0.8	8
13	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. <i>Journal of Chromatography A</i> , 2016, 1440, 1-14.	1.8	24
14	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. <i>RSC Advances</i> , 2016, 6, 4410-4421.	1.7	4
15	Chromatographic method for pre-concentration and separation of Zn(II) with microalgae and density functional optimization of the extracted species. <i>RSC Advances</i> , 2015, 5, 31205-31218.	1.7	6
16	EBT anchored SiO ₂ -3-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. <i>RSC Advances</i> , 2015, 5, 55686-55703.	1.7	11
17	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. <i>Desalination and Water Treatment</i> , 2015, 53, 398-412.	1.0	2
18	Characterization and Density Functional Theory Optimization of a Simultaneous Binder (FSG-XO) of Two Different Species Exploiting HOMO-LUMO Levels: Photoelectronic and Analytical Applications. <i>Journal of Chemical & Engineering Data</i> , 2015, 60, 2197-2208.	1.0	15

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19	Extraction Chromatographic Method of Preconcentration, Estimation and Concomitant Separation of Vanadium (IV) with Silica Gel-Versatic 10 Composite. <i>Journal of Chromatographic Science</i> , 2014, 52, 1135-1144.	0.7	9
20	Solid-phase extraction, separation and preconcentration of titanium(^{iv}) with SSG-V10 from some other toxic cations: a molecular interpretation supported by DFT. <i>RSC Advances</i> , 2014, 4, 33923-33934.	1.7	13
21	Role of river-derived algae on bioaccumulation in fixed bed reactors; a low-cost safe drinking water plant. <i>Desalination and Water Treatment</i> , 2012, 45, 343-350.	1.0	3
22	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. <i>Journal of Chromatography A</i> , 2011, 1218, 5644-5652.	1.8	17
23	Combined cation-exchange and extraction chromatographic method of preconcentration and concomitant separation of bismuth(III) with high molecular mass liquid cation exchanger. <i>Journal of Hazardous Materials</i> , 2010, 182, 363-370.	6.5	28
24	The electronegativity scale of Allred and Rochow: revisited. <i>Theoretical Chemistry Accounts</i> , 2009, 124, 295-301.	0.5	17