

Milan Krishna Barman

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	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.	1.9	4
2	Detection and selective sample clean-up of beryllium(Be^{3+}) through {extractor-HOMO}($\text{Be}^{3+}\text{O}(\text{OH})^{2+}$) ion pair complexation amidst aluminum(Al^{3+}) and uranium(U^{6+}) by employing a fluorescent resin: the resin's HOMO amount is a quantitative descriptor of BTC. New Journal of Chemistry, 2018, 42, 9410-9423.	2.8	7
3	n-Capric acid-anchored silanized silica gel: its application to sample clean-up of Th(Th^{4+}) sorbed as a dinuclear species in quantified H-bonded dimeric metal-trapping cores. New Journal of Chemistry, 2017, 41, 5542-5554.	2.8	13
4	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.	3.7	22
5	Facile Synthesis of a Luminescent Material, PAN@ SiO_2 , 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.	1.6	8
6	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.	3.7	24
7	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.	3.6	4
8	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.	3.6	6
9	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. RSC Advances, 2015, 5, 55686-55703.	3.6	11
10	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
11	Characterization and Density Functional Theory Optimization of a Simultaneous Binder (FSG-XO) of Two Different Species Exploiting HOMO-LUMO Levels: Photoelectronic and Analytical Applications. Journal of Chemical & Engineering Data, 2015, 60, 2197-2208.	1.9	15
12	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.	1.4	9
13	Solid-phase extraction, separation and preconcentration of titanium(Ti^{4+}) with SSG-V10 from some other toxic cations: a molecular interpretation supported by DFT. RSC Advances, 2014, 4, 33923-33934.	3.6	13