

# Milan Krishna Barman

## List of Publications by Year in descending order

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13  
papers

138  
citations

1163117

8  
h-index

1199594

12  
g-index

13  
all docs

13  
docs citations

13  
times ranked

64  
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	3.7	24
2	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.	3.7	22
3	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 &amp; Engineering Data</i> , 2015, 60, 2197-2208.	1.9	15
4	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.	3.6	13
5	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.	2.8	13
6	EBT anchored SiO <sub>2</sub> /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.	3.6	11
7	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.	1.4	9
8	Facile Synthesis of a Luminescent Material, PAN@SiO <sub>2</sub> <sub>n</sub> , 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.	1.6	8
9	Detection and selective sample clean-up of beryllium(II) through {extractor-HOMO}(:){Be <sub>3</sub> O(OH) <sub>2</sub> } <sup>2+</sup> 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, 9410-9423.	2.8	7
10	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.	3.6	6
11	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.	3.6	4
12	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 &amp; Engineering Data</i> , 2019, 64, 5356-5372.	1.9	4
13	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