Avishek Banik

List of Publications by Year
in descending order

35	906	471509 17	477307 29
papers	citations	h-index	g-index

37	37	37	995
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	FRET based tri-color emissive rhodamineâ€“pyrene conjugate as an Al3+ selective colorimetric and fluorescence sensor for living cell imaging. Dalton Transactions, 2013, 42, 13311.	3.3	96
2	Characterization of N2-fixing plant growth promoting endophytic and epiphytic bacterial community of Indian cultivated and wild rice (Oryza spp.) genotypes. Planta, 2016, 243, 799-812.	3.2	74
3	Application of rice (Oryza sativa L.) root endophytic diazotrophic Azotobacter sp. strain Avi2 (MCC) Tj ETQq1 1 0.784314 rgBT /Overl 219, 56-65.	5.3	70
4	Antipyrine Based Arsenate Selective Fluorescent Probe for Living Cell Imaging. Analytical Chemistry, 2013, 85, 1778-1783.	6.5	65
5	Tea and its phytochemicals: Hidden health benefits & modulation of signaling cascade by phytochemicals. Food Chemistry, 2022, 371, 131098.	8.2	64
6	Characterization of halotolerant, pigmented, plant growth promoting bacteria of groundnut rhizosphere and its in-vitro evaluation of plant-microbe protocooperation to withstand salinity and metal stress. Science of the Total Environment, 2018, 630, 231-242.	8.0	56
7	A rhodamineâ€“naphthalene conjugate as a FRET based sensor for Cr³⁺and Fe³⁺with cell staining application. Analytical Methods, 2013, 5, 442-445.	2.7	54
8	A simple Schiff base molecular logic gate for detection of Zn2+ in water and its bio-imaging application in plant system. Journal of Photochemistry and Photobiology A: Chemistry, 2016, 321, 99-109.	3.9	42
9	Flavonoid mediated selective cross-talk between plants and beneficial soil microbiome. Phytochemistry Reviews, 2022, 21, 1739-1760.	6.5	37
10	Dual mode ratiometric recognition of zinc acetate: nanomolar detection with in vitro tracking of endophytic bacteria in rice root tissue. Dalton Transactions, 2016, 45, 599-606.	3.3	34
11	Long-term aromatic rice cultivation effect on frequency and diversity of diazotrophs in its rhizosphere. Ecological Engineering, 2017, 101, 227-236.	3.6	32
12	Exploring tea (Camellia sinensis) microbiome: Insights into the functional characteristics and their impact on tea growth promotion. Microbiological Research, 2022, 254, 126890.	5.3	27
13	Characterization of a tea pest specific Bacillus thuringiensis and identification of its toxin by MALDI-TOF mass spectrometry. Industrial Crops and Products, 2019, 137, 549-556.	5.2	23
14	A new colorimetric chemodosimeter for mercury ion via specific thioacetal deprotection in aqueous solution and living cells. Tetrahedron Letters, 2012, 53, 7031-7035.	1.4	21
15	Cadmium biosorption and biomass production by two freshwater microalgae Scenedesmus acutus and Chlorella pyrenoidosa: An integrated approach. Chemosphere, 2021, 269, 128755.	8.2	21
16	First rhodamine-based â€œoffâ€“onâ€•chemosensor with high selectivity and sensitivity for Zr4+ and its imaging in living cell. Sensors and Actuators B: Chemical, 2013, 183, 350-355.	7.8	20
17	Envelope protein gene based molecular characterization of Japanese encephalitis virus clinical isolates from West Bengal, India: a comparative approach with respect to SA14-14-2 live attenuated vaccine strain. BMC Infectious Diseases, 2013, 13, 368.	2.9	19
18	Carbazole phenylthiosemicarbazone-based ensemble of Hg2+ as selective fluorescence turn-on sensor toward cysteine in water. Tetrahedron Letters, 2013, 54, 2946-2951.	1.4	18

#	Article	IF	Citations
19	Fluorescence resonance energy transfer (FRET)-based technique for tracking of endophytic bacteria in rice roots. Biology and Fertility of Soils, 2016, 52, 277-282.	4.3	18
20	Plant Growth-Promoting Traits of a Thermophilic Strain of the Klebsiella Group with its Effect on Rice Plant Growth. Current Microbiology, 2020, 77, 2613-2622.	2.2	18
21	Hg2+-selective â€œturn-onâ€•fluorescent chemodosimeter derived from glycine and living cell imaging. Journal of Photochemistry and Photobiology A: Chemistry, 2012, 240, 26-32.	3.9	17
22	Crystal structure, spectroscopic, DNA binding studies and DFT calculations of a Zn(ii) complex. New Journal of Chemistry, 2019, 43, 5466-5474.	2.8	12
23	Algae-bacterial aquaculture can enhance heavy metals (Pb2+ and Cd2+) remediation and water re-use efficiency of synthetic streams. Resources, Conservation and Recycling, 2022, 180, 106211.	10.8	12
24	Tuning of azine derivatives for selective recognition of Ag⁺ with the in vitro tracking of endophytic bacteria in rice root tissue. Dalton Transactions, 2016, 45, 19491-19499.	3.3	11
25	Phycoremediation and photosynthetic toxicity assessment of lead by two freshwater microalgae <scp> Scenedesmus acutus </scp> and <scp> Chlorella pyrenoidosa </scp>. Physiologia Plantarum, 2021, 173, 246-258.	5.2	8
26	Virtual screening and docking analysis of novel ligands for selective enhancement of tea (Camellia) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	4.3	7
27	Heavy Metal Mitigation with Special Reference to Bioremediation byÂMixotrophic Algae-Bacterial Protocooperation. Nanotechnology in the Life Sciences, 2020, , 305-334.	0.6	6
28	Dynamics of endophytic and epiphytic bacterial communities of Indian cultivated and wild rice (Oryza) Tj ETQq0 0 0 rgBT /Overlock 10 T	0.5	5
29	Lower Frequency and Diversity of Antibiotic-Producing Fluorescent Pseudomonads in Rhizosphere of Indian Rapeseedâ€“Mustard (Brassica juncea L. Czern.). Proceedings of the National Academy of Sciences India Section B - Biological Sciences, 2018, 88, 579-586.	1.0	5
30	In Silico and in Vitro Studies of Fluorinated Chroman-2-Carboxilic Acid Derivatives as an Anti-tubercular Agent. Folia Medica, 2018, 60, 601-609.	0.5	5
31	Parasites and bacteria associated with Indian pangolins Manis crassicaudata (Mammalia: Manidae). Global Ecology and Conservation, 2020, 23, e01042.	2.1	2
32	Detoxification and bioconversion of arsenic and chromium. , 2021, , 253-270.		2
33	Biological Nitrogen Fixation Mechanism and Applications. , 2021, , 137-151.		1
34	Role of NO in plants. , 2022, , 139-168.		1
35	Nanobiotechnology of endophytes. , 2022, , 105-128.		0