

Jayanta K Biswas

List of Publications by Year in descending order

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Version: 2024-02-01

67
papers

2,359
citations

201385

27
h-index

223531

46
g-index

70
all docs

70
docs citations

70
times ranked

2552
citing authors

#	ARTICLE	IF	CITATIONS
1	Applications of biochar in redox-mediated reactions. <i>Bioresource Technology</i> , 2017, 246, 271-281.	4.8	322
2	Clay-polymer nanocomposites: Progress and challenges for use in sustainable water treatment. <i>Journal of Hazardous Materials</i> , 2020, 383, 121125.	6.5	132
3	Pharmaceutical and Personal Care Products (PPCPs) in the environment: Plant uptake, translocation, bioaccumulation, and human health risks. <i>Critical Reviews in Environmental Science and Technology</i> , 2021, 51, 1221-1258.	6.6	127
4	Copper and copper nanoparticles: role in management of insect-pests and pathogenic microbes. <i>Nanotechnology Reviews</i> , 2018, 7, 303-315.	2.6	111
5	Characterization, source identification and risk associated with polyaromatic and chlorinated organic contaminants (PAHs, PCBs, PCBzs and OCPs) in the surface sediments of Hooghly estuary, India. <i>Chemosphere</i> , 2019, 221, 154-165.	4.2	109
6	Arsenic, chromium, molybdenum, and selenium: Geochemical fractions and potential mobilization in riverine soil profiles originating from Germany and Egypt. <i>Chemosphere</i> , 2017, 180, 553-563.	4.2	95
7	Fabrication of magnetic biochar as a treatment medium for As(V) via pyrolysis of FeCl ₃ -pretreated spent coffee ground. <i>Environmental Pollution</i> , 2017, 229, 942-949.	3.7	92
8	Biodegradation of per- and polyfluoroalkyl substances (PFAS): A review. <i>Bioresource Technology</i> , 2022, 344, 126223.	4.8	87
9	Potential application of selected metal resistant phosphate solubilizing bacteria isolated from the gut of earthworm (<i>Metaphire posthuma</i>) in plant growth promotion. <i>Geoderma</i> , 2018, 330, 117-124.	2.3	82
10	Challenges and opportunities in sustainable management of microplastics and nanoplastics in the environment. <i>Environmental Research</i> , 2022, 207, 112179.	3.7	75
11	Characterization, Behavior, and Risk Assessment of Polycyclic Aromatic Hydrocarbons (PAHs) in the Estuary Sediments. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2022, 108, 243-252.	1.3	69
12	Anammox bacteria in treating ammonium rich wastewater: Recent perspective and appraisal. <i>Bioresource Technology</i> , 2021, 334, 125240.	4.8	59
13	Arsenic contamination, impact and mitigation strategies in rice agro-environment: An inclusive insight. <i>Science of the Total Environment</i> , 2021, 800, 149477.	3.9	47
14	Dissolved trace elements in Hooghly (Ganges) River Estuary, India: Risk assessment and implications for management. <i>Marine Pollution Bulletin</i> , 2018, 133, 402-414.	2.3	46
15	Is Arsenic in Rice a Major Human Health Concern?. <i>Current Pollution Reports</i> , 2020, 6, 37-42.	3.1	45
16	Nanomaterials for sustainable remediation of chemical contaminants in water and soil. <i>Critical Reviews in Environmental Science and Technology</i> , 2022, 52, 2611-2660.	6.6	45
17	Potential of biochar and organic amendments for reclamation of coastal acidic-salt affected soil. <i>Biochar</i> , 2020, 2, 107-120.	6.2	44
18	A new pyridoxal based fluorescence chemo-sensor for detection of Zn(II) and its application in bio imaging. <i>RSC Advances</i> , 2015, 5, 72659-72669.	1.7	43

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19	Trace elements in surface sediments of the Hooghly (Ganges) estuary: distribution and contamination risk assessment. <i>Environmental Geochemistry and Health</i> , 2017, 39, 1245-1258.	1.8	39
20	Biochar-based nanocomposite from waste tea leaf for toxic dye removal: From facile fabrication to functional fitness. <i>Chemosphere</i> , 2022, 291, 132788.	4.2	39
21	Exploration of an Extracellular Polymeric Substance from Earthworm Gut Bacterium (<i>Bacillus</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 10 (Switzerland), 2020, 10, 349.	1.3	38
22	Multi-metal resistance and plant growth promotion potential of a wastewater bacterium <i>Pseudomonas aeruginosa</i> and its synergistic benefits. <i>Environmental Geochemistry and Health</i> , 2017, 39, 1583-1593.	1.8	35
23	Biosolids application affects the competitive sorption and lability of cadmium, copper, nickel, lead, and zinc in fluvial and calcareous soils. <i>Environmental Geochemistry and Health</i> , 2017, 39, 1365-1379.	1.8	34
24	Detection and characterization of refractory organic and inorganic pollutants discharged in biomethanated distillery effluent and their phytotoxicity, cytotoxicity, and genotoxicity assessment using <i>Phaseolus aureus</i> L. and <i>Allium cepa</i> L.. <i>Environmental Research</i> , 2021, 201, 111551.	3.7	34
25	Seasonal assessment of trace element contamination in intertidal sediments of the meso-macrotidal Hooghly (Ganges) River Estuary with a note on mercury speciation. <i>Marine Pollution Bulletin</i> , 2018, 127, 117-130.	2.3	32
26	Distribution and sources of organic contaminants in surface sediments of Hooghly river estuary and Sundarban mangrove, eastern coast of India. <i>Marine Pollution Bulletin</i> , 2019, 146, 39-49.	2.3	30
27	Human-induced ecological changes in western part of Indian Sundarban megadelta: A threat to ecosystem stability. <i>Marine Pollution Bulletin</i> , 2015, 99, 186-194.	2.3	29
28	Assessing the potential ecological risk of Co, Cr, Cu, Fe and Zn in the sediments of Hooghly's Matla estuarine system, India. <i>Environmental Geochemistry and Health</i> , 2019, 41, 53-70.	1.8	28
29	Exploring potential applications of a novel extracellular polymeric substance synthesizing bacterium (<i>Bacillus licheniformis</i>) isolated from gut contents of earthworm (<i>Metaphire posthuma</i>) in environmental remediation. <i>Biodegradation</i> , 2018, 29, 323-337.	1.5	27
30	Nanopollution in the Aquatic Environment and Ecotoxicity: No Nano Issue!. <i>Current Pollution Reports</i> , 2019, 5, 4-7.	3.1	27
31	A wastewater bacterium <i>Bacillus</i> sp. KUJM2 acts as an agent for remediation of potentially toxic elements and promoter of plant (<i>Lens culinaris</i>) growth. <i>Chemosphere</i> , 2019, 232, 439-452.	4.2	23
32	Syntheses, X-ray Crystal Structures, Photoluminescence Properties, Antimicrobial Activities and Hirshfeld Surface of Two New Cd(II) Azide/Thiocyanate Linked Coordination Polymers. <i>ChemistrySelect</i> , 2017, 2, 4811-4822.	0.7	22
33	Genetic and non-genetic tailoring of microalgae for the enhanced production of eicosapentaenoic acid (EPA) and docosahexaenoic acid (DHA) – A review. <i>Bioresource Technology</i> , 2022, 344, 126250.	4.8	22
34	Revamping highly weathered soils in the tropics with biochar application: What we know and what is needed. <i>Science of the Total Environment</i> , 2022, 822, 153461.	3.9	22
35	Does acidification increase the nitrogen fertilizer replacement value of bio-based fertilizers?. <i>Journal of Plant Nutrition and Soil Science</i> , 2017, 180, 800-810.	1.1	18
36	Exposure to heavy metals alters the surface topology of alveolar macrophages and induces respiratory dysfunction among Indian metal arc-welders. <i>Toxicology and Industrial Health</i> , 2018, 34, 908-921.	0.6	18

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37	The effect of solvents polarity and extraction conditions on the microalgal lipids yield, fatty acids profile, and biodiesel properties. <i>Bioresource Technology</i> , 2022, 344, 126303.	4.8	18
38	Enteric bacteria from the earthworm (<i>Metaphire posthuma</i>) promote plant growth and remediate toxic trace elements. <i>Journal of Environmental Management</i> , 2019, 250, 109530.	3.8	17
39	Health Risk Assessment of Exposure to Trace Elements from Drinking Black and Green Tea Marketed in Three Countries. <i>Biological Trace Element Research</i> , 2022, 200, 2970-2982.	1.9	14
40	Assessment of in vitro antimicrobial efficacy of biologically synthesized metal nanoparticles against pathogenic bacteria. <i>Chemosphere</i> , 2022, 291, 132676.	4.2	14
41	Sediment quality, elemental bioaccumulation and antimicrobial properties of mangroves of Indian Sundarban. <i>Environmental Geochemistry and Health</i> , 2019, 41, 275-296.	1.8	13
42	Cd(II) Pseudohalide Complexes with N,N'-bis(3-ethoxysalicylideneimino) 1,3-diaminopropane: Crystal Structures, Hirshfeld Surface, Antibacterial and Anti-biofilm Properties. <i>ChemistrySelect</i> , 2018, 3, 2912-2925.	0.7	12
43	Green chemistry functionalization of g-C ₃ N ₄ photocatalysts towards sustainable energy and environmental mediated all-solid-state (ASS) Z-scheme photocatalysts towards sustainable energy and environmental applications. <i>Environmental Technology and Innovation</i> , 2021, 24, 101972.	3.0	12
44	Interrelationship Among Rice Grain Arsenic, Micronutrients Content and Grain Quality Attributes: An Investigation From Genotype – Environment Perspective. <i>Frontiers in Environmental Science</i> , 2022, 10, .	1.5	12
45	Electrophoresis-staining apparatus for DNA agarose gels with solution exchange and image acquisition. <i>Instrumentation Science and Technology</i> , 2017, 45, 49-61.	0.9	9
46	Synthesis, characterization and antimicrobial activities of Co(III) and Ni(II) complexes with 5-methyl-3-formylpyrazole-N(4)-diethylthiosemicarbazone (HMPzNHex2): X-ray crystallography and DFT calculations of [Co(MPzNHex2)2]ClO ₄ ·1.5H ₂ O (I) and [Ni(HMPzNHex2)2]Cl ₂ ·2H ₂ O (II). <i>Inorganica Chimica Acta</i> , 2018, 483, 271-283.	1.2	9
47	Soil organic carbon dynamics in the agricultural soils of Bangladesh following more than 20 years of land use intensification. <i>Journal of Environmental Management</i> , 2022, 305, 114427.	3.8	9
48	Harnessing fertilizer potential of human urine in a mesocosm system: a novel test case for linking the loop between sanitation and aquaculture. <i>Environmental Geochemistry and Health</i> , 2017, 39, 1545-1561.	1.8	7
49	Influence of soil water content and soil amendments on trace metal release and seedling growth in serpentine soil. <i>Journal of Soils and Sediments</i> , 2019, 19, 3908-3921.	1.5	7
50	Impact of Aeration on the Removal of Organic Matter and Nitrogen Compounds in Constructed Wetlands Treating the Liquid Fraction of Piggery Manure. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 4310.	1.3	7
51	Formulation of Water Sustainability Index for India as a performance gauge for realizing the United Nations Sustainable Development Goal 6. <i>Ambio</i> , 2022, 51, 1569-1587.	2.8	7
52	Diversity and Distribution of Microzooplankton Tintinnid (Ciliata: Protozoa) in the Core Region of Indian Sundarban Wetland. <i>Clean - Soil, Air, Water</i> , 2016, 44, 1278-1286.	0.7	6
53	User-friendly tool kits for protein gel electrophoresis techniques: A training program for high school students. <i>Biochemistry and Molecular Biology Education</i> , 2018, 46, 566-577.	0.5	6
54	Impact of raking and bioturbation-mediated ecological manipulation on sediment-water phosphorus diagenesis: a mesocosm study supported with radioactive signature. <i>Environmental Geochemistry and Health</i> , 2017, 39, 1563-1581.	1.8	5

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55	The Flop Side of Using Heavy Metal(oids)s in the Traditional Medicine: Toxic Insults and Injury to Human Health. , 2018, , 257-276.		4
56	Nano-bio Interactions and Ecotoxicity in Aquatic Environment: Plenty of Room at the Bottom but Tyranny at the Top!. , 2018, , 19-36.		4
57	New Extracellular Polymeric Substance Producing Enteric Bacterium from Earthworm, <i>Metaphire posthuma</i> : Modulation Through Culture Conditions. Proceedings of the Zoological Society, 2019, 72, 160-170.	0.4	4
58	Sedimentation of metals in Sundarban mangrove ecosystem: Dominant drivers and environmental risks. Environmental Geochemistry and Health, 2023, 45, 1555-1572.	1.8	3
59	Simple and rapid system for two-dimensional gel electrophoresis technique: A laboratory exercise for high school students. Biochemistry and Molecular Biology Education, 2018, 46, 237-244.	0.5	2
60	Microparticle-Supported Nanocomposites for Safe Environmental Applications. , 2018, , 305-317.		2
61	Conservation of Ground Water at Maheshtala Bleaching and Dyeing Cluster, a Populated Area in West Bengal, India by Implementing Ultra filtration and Reverse Osmosis Based Effluent Treatment Plantâ€”A Case Study. Journal of the Institution of Engineers (India): Series A, 2018, 99, 705-718.	0.6	2
62	Textile Effluent-Surface Water Pollution and Its Remedial Measures at Maheshtala Textile Cluster, South 24 Parganas, West Bengal, India. , 2016, , .		1
63	Multi-gel casting apparatus for vertical polyacrylamide gels with in-built solution flow system and liquid level detectors. Electrophoresis, 2017, 38, 2060-2068.	1.3	1
64	A tetrad apparatus for protein gel casting, electrophoresis, staining, and scanning techniques with dual sensors for automatic detection of gel polymerization and protein migration. Electrophoresis, 2018, 39, 2943-2953.	1.3	1
65	Harnessing biofertilizer from human urine via chemogenic and biogenic routes: Synthesis, characterization and agronomic application. Environmental Technology and Innovation, 2021, 25, 102152.	3.0	1
66	Multitrack Staining Apparatus with High Resolution and Time-Lapsed Acquisition for Polyacrylamide Gels. Instrumentation Science and Technology, 2015, 43, 588-600.	0.9	0
67	Nanoadsorbents for scavenging emerging contaminants from wastewater. , 2022, , 1-22.		0