Jayanta K Biswas

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/4312750/publications.pdf

Version: 2024-02-01

		201385	223531
67	2,359	27	46
papers	citations	h-index	g-index

70	70	70	2552
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Sedimentation of metals in Sundarban mangrove ecosystem: Dominant drivers and environmental risks. Environmental Geochemistry and Health, 2023, 45, 1555-1572.	1.8	3
2	Nanomaterials for sustainable remediation of chemical contaminants in water and soil. Critical Reviews in Environmental Science and Technology, 2022, 52, 2611-2660.	6.6	45
3	Health Risk Assessment of Exposure to Trace Elements from Drinking Black and Green Tea Marketed in Three Countries. Biological Trace Element Research, 2022, 200, 2970-2982.	1.9	14
4	Nanoadsorbents for scavenging emerging contaminants from wastewater. , 2022, , 1-22.		0
5	Challenges and opportunities in sustainable management of microplastics and nanoplastics in the environment. Environmental Research, 2022, 207, 112179.	3.7	75
6	Assessment of in vitro antimicrobial efficacy of biologically synthesized metal nanoparticles against pathogenic bacteria. Chemosphere, 2022, 291, 132676.	4.2	14
7	Genetic and non-genetic tailoring of microalgae for the enhanced production of eicosapentaenoic acid (EPA) and docosahexaenoic acid (DHA) â€“ A review. Bioresource Technology, 2022, 344, 126250.	4.8	22
8	Characterization, Behavior, and Risk Assessment of Polycyclic Aromatic Hydrocarbons (PAHs) in the EstuaryÂSediments. Bulletin of Environmental Contamination and Toxicology, 2022, 108, 243-252.	1.3	69
9	Biodegradation of per- and polyfluoroalkyl substances (PFAS): A review. Bioresource Technology, 2022, 344, 126223.	4.8	87
10	Biochar-based nanocomposite from waste tea leaf for toxic dye removal: From facile fabrication to functional fitness. Chemosphere, 2022, 291, 132788.	4.2	39
11	The effect of solvents polarity and extraction conditions on the microalgal lipids yield, fatty acids profile, and biodiesel properties. Bioresource Technology, 2022, 344, 126303.	4.8	18
12	Soil organic carbon dynamics in the agricultural soils of Bangladesh following more than 20 years of land use intensification. Journal of Environmental Management, 2022, 305, 114427.	3.8	9
13	Revamping highly weathered soils in the tropics with biochar application: What we know and what is needed. Science of the Total Environment, 2022, 822, 153461.	3.9	22
14	Interrelationship Among Rice Grain Arsenic, Micronutrients Content and Grain Quality Attributes: An Investigation From Genotype Ã— Environment Perspective. Frontiers in Environmental Science, 2022, 10, .	1.5	12
15	Formulation of Water Sustainability Index for India as a performance gauge for realizing the United Nations Sustainable Development Goal 6. Ambio, 2022, 51, 1569-1587.	2.8	7
16	Pharmaceutical and Personal Care Products (PPCPs) in the environment: Plant uptake, translocation, bioaccumulation, and human health risks. Critical Reviews in Environmental Science and Technology, 2021, 51, 1221-1258.	6.6	127
17	Anammox bacteria in treating ammonium rich wastewater: Recent perspective and appraisal. Bioresource Technology, 2021, 334, 125240.	4.8	59
18	Detection and characterization of refractory organic and inorganic pollutants discharged in biomethanated distillery effluent and their phytotoxicity, cytotoxicity, and genotoxicity assessment using Phaseolus aureus L. and Allium cepa L.. Environmental Research, 2021, 201, 111551.	3.7	34

#	Article	IF	Citations
19	[illegible functionalization of g-C<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e2116" altimg="si20.svg"><mml:mrow><mml:msub><mml:mrow /><mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:msub><mml:msub><mml:mrow><mml:mi mathvariant="normal">N</mml:mi></mml:mrow><mml:mrow><mml:mn>4</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:mrow> mediated all-solid-state (ASS) Z-scheme photocatalysts towards sustainable energy and environmental applications. Environmental Technology and Innovation, 2021, 24, 101972.	3.0	12
20	Arsenic contamination, impact and mitigation strategies in rice agro-environment: An inclusive insight. Science of the Total Environment, 2021, 800, 149477.	3.9	47
21	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
22	Clayâ€“polymer nanocomposites: Progress and challenges for use in sustainable water treatment. Journal of Hazardous Materials, 2020, 383, 121125.	6.5	132
23	Is Arsenic in Rice a Major Human Health Concern?. Current Pollution Reports, 2020, 6, 37-42.	3.1	45
24	Potential of biochar and organic amendments for reclamation of coastal acidic-salt affected soil. Biochar, 2020, 2, 107-120.	6.2	44
25	Exploration of an Extracellular Polymeric Substance from Earthworm Gut Bacterium (Bacillus) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T (Switzerland), 2020, 10, 349.	1.3	38
26	Sediment quality, elemental bioaccumulation and antimicrobial properties of mangroves of Indian Sundarban. Environmental Geochemistry and Health, 2019, 41, 275-296.	1.8	13
27	Assessing the potential ecological risk of Co, Cr, Cu, Fe and Zn in the sediments of Hooghlyâ€“Matla estuarine system, India. Environmental Geochemistry and Health, 2019, 41, 53-70.	1.8	28
28	Enteric bacteria from the earthworm (Metaphire posthuma) promote plant growth and remediate toxic trace elements. Journal of Environmental Management, 2019, 250, 109530.	3.8	17
29	Nanopollution in the Aquatic Environment and Ecotoxicity: No Nano Issue!. Current Pollution Reports, 2019, 5, 4-7.	3.1	27
30	Distribution and sources of organic contaminants in surface sediments of Hooghly river estuary and Sundarban mangrove, eastern coast of India. Marine Pollution Bulletin, 2019, 146, 39-49.	2.3	30
31	A wastewater bacterium Bacillus sp. KUJM2 acts as an agent for remediation of potentially toxic elements and promoter of plant (Lens culinaris) growth. Chemosphere, 2019, 232, 439-452.	4.2	23
32	Influence of soil water content and soil amendments on trace metal release and seedling growth in serpentine soil. Journal of Soils and Sediments, 2019, 19, 3908-3921.	1.5	7
33	Impact of Aeration on the Removal of Organic Matter and Nitrogen Compounds in Constructed Wetlands Treating the Liquid Fraction of Piggery Manure. Applied Sciences (Switzerland), 2019, 9, 4310.	1.3	7
34	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. Chemosphere, 2019, 221, 154-165.	4.2	109
35	New Extracellular Polymeric Substance Producing Enteric Bacterium from Earthworm, Metaphire posthuma: Modulation Through Culture Conditions. Proceedings of the Zoological Society, 2019, 72, 160-170.	0.4	4
36	The Flop Side of Using Heavy Metal(oids)s in the Traditional Medicine: Toxic Insults and Injury to Human Health. , 2018, , 257-276.		4

#	Article	IF	Citations
37	Simple and rapid system for twoâ€dimensional gel electrophoresis technique: A laboratory exercise for high school students. Biochemistry and Molecular Biology Education, 2018, 46, 237-244.	0.5	2
38	Cd(II) Pseudohalide Complexes with N, Nâ€²â€Bis(3â€ethoxysalicylidenimino) 1,3â€Diaminopropane: Crystal Structures, Hirshfeld Surface, Antibacterial and Antiâ€Biofilm Properties. ChemistrySelect, 2018, 3, 2912-2925.	0.7	12
39	Seasonal assessment of trace element contamination in intertidal sediments of the meso-macrotidal Hooghly (Ganges) River Estuary with a note on mercury speciation. Marine Pollution Bulletin, 2018, 127, 117-130.	2.3	32
40	Microparticle-Supported Nanocomposites for Safe Environmental Applications. , 2018, , 305-317.		2
41	Nano-bio Interactions and Ecotoxicity in Aquatic Environment: Plenty of Room at the Bottom but Tyranny at the Top!. , 2018, , 19-36.		4
42	Exposure to heavy metals alters the surface topology of alveolar macrophages and induces respiratory dysfunction among Indian metal arc-welders. Toxicology and Industrial Health, 2018, 34, 908-921.	0.6	18
43	Userâ€friendly tool kits for protein gel electrophoresis techniques: A training program for high school students. Biochemistry and Molecular Biology Education, 2018, 46, 566-577.	0.5	6
44	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
45	Exploring potential applications of a novel extracellular polymeric substance synthesizing bacterium (Bacillus licheniformis) isolated from gut contents of earthworm (Metaphire posthuma) in environmental remediation. Biodegradation, 2018, 29, 323-337.	1.5	27
46	Copper and copper nanoparticles: role in management of insect-pests and pathogenic microbes. Nanotechnology Reviews, 2018, 7, 303-315.	2.6	111
47	Synthesis, characterization and antimicrobial activities of Co(III) and Ni(II) complexes with 5-methyl-3-formylpyrazole-N(4)-dihexylthiosemicarbazone (HMPzNHex2): X-ray crystallography and DFT calculations of [Co(MPzNHex2)2]ClO4Â·1.5H2O (I) and [Ni(HMPzNHex2)2]Cl2Â·2H2O (II). Inorganica Chimica Acta, 2018, 483, 271-283.	1.2	9
48	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
49	Potential application of selected metal resistant phosphate solubilizing bacteria isolated from the gut of earthworm (Metaphire posthuma) in plant growth promotion. Geoderma, 2018, 330, 117-124.	2.3	82
50	Dissolved trace elements in Hooghly (Ganges) River Estuary, India: Risk assessment and implications for management. Marine Pollution Bulletin, 2018, 133, 402-414.	2.3	46
51	Biosolids application affects the competitive sorption and lability of cadmium, copper, nickel, lead, and zinc in fluvial and calcareous soils. Environmental Geochemistry and Health, 2017, 39, 1365-1379.	1.8	34
52	Trace elements in surface sediments of the Hooghly (Ganges) estuary: distribution and contamination risk assessment. Environmental Geochemistry and Health, 2017, 39, 1245-1258.	1.8	39
53	Arsenic, chromium, molybdenum, and selenium: Geochemical fractions and potential mobilization in riverine soil profiles originating from Germany and Egypt. Chemosphere, 2017, 180, 553-563.	4.2	95
54	Harnessing fertilizer potential of human urine in a mesocosm system: a novel test case for linking the loop between sanitation and aquaculture. Environmental Geochemistry and Health, 2017, 39, 1545-1561.	1.8	7

#	Article	IF	Citations
55	Multi-metal resistance and plant growth promotion potential of a wastewater bacterium Pseudomonas aeruginosa and its synergistic benefits. Environmental Geochemistry and Health, 2017, 39, 1583-1593.	1.8	35
56	Impact of raking and bioturbation-mediated ecological manipulation on sedimentâ€“water phosphorus diagenesis: a mesocosm study supported with radioactive signature. Environmental Geochemistry and Health, 2017, 39, 1563-1581.	1.8	5
57	Multiâ€gel casting apparatus for vertical polyacrylamide gels with inâ€built solution flow system and liquid level detectors. Electrophoresis, 2017, 38, 2060-2068.	1.3	1
58	Syntheses, X-ray Crystal Structures, Photoluminescence Properties, Antimicrobial Activities and Hirshfeld Surface of Two New Cd(II) Azide/Thiocyanate Linked Coordination Polymers. ChemistrySelect, 2017, 2, 4811-4822.	0.7	22
59	Fabrication of magnetic biochar as a treatment medium for As(V) via pyrolysis of FeCl 3 -pretreated spent coffee ground. Environmental Pollution, 2017, 229, 942-949.	3.7	92
60	Does acidification increase the nitrogen fertilizer replacement value ofÂbioâ€based fertilizers?. Journal of Plant Nutrition and Soil Science, 2017, 180, 800-810.	1.1	18
61	Applications of biochar in redox-mediated reactions. Bioresource Technology, 2017, 246, 271-281.	4.8	322
62	Electrophoresis-staining apparatus for DNA agarose gels with solution exchange and image acquisition. Instrumentation Science and Technology, 2017, 45, 49-61.	0.9	9
63	Diversity and Distribution of Microzooplankton Tintinnid (Ciliata: Protozoa) in the Core Region of Indian Sundarban Wetland. Clean - Soil, Air, Water, 2016, 44, 1278-1286.	0.7	6
64	Textile Effluent-Surface Water Pollution and Its Remedial Measures at Maheshtala Textile Cluster, South 24 Parganas, West Bengal, India. , 2016, , .		1
65	Human-induced ecological changes in western part of Indian Sundarban megadelta: A threat to ecosystem stability. Marine Pollution Bulletin, 2015, 99, 186-194.	2.3	29
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	A new pyridoxal based fluorescence chemo-sensor for detection of Zn(<scp>ii</scp>) and its application in bio imaging. RSC Advances, 2015, 5, 72659-72669.	1.7	43