Jayanta Bhattacharya

List of Publications by Year in Descending Order

70 papers	1,942 citations	23 h-index	43 g-index
74 ext. papers	2,575 ext. citations	5.9 avg, IF	5.89 L-index

#	Paper	IF	Citations
70	Geogenic sulfate-rich wastewater: Sources, characteristics, effects and treatment technologies **2022**, 249-273		
69	Efficacy of silver nanoparticles-based foliar spray application to control plant diseases, its effect on productivity, and risk assessment. *Arabian Journal of Geosciences*, **2022**, 15, 1	1.8	
68	Bimetallic Fe/Al-MOF for the adsorptive removal of multiple dyes: optimization and modeling of batch and hybrid adsorbent-river sand column study and its application in textile industry wastewater.. *Environmental Science and Pollution Research*, **2022**, 1	5.1	2
67	Novel GO/Fe-Mn hybrid for the adsorptive removal of Pb(II) ions from aqueous solution and the spent adsorbent disposability in cement mix: compressive properties and leachability study for circular economy benefits.. *Environmental Science and Pollution Research*, **2022**, 1	5.1	0
66	Neural Network and Random Forest-Based Analyses of the Performance of Community Drinking Water Arsenic Treatment Plants. *Water (Switzerland)*, **2021**, 13, 3507	3	1
65	Influence of process parameters for production of biochar: A potential tool for an energy transition. *Advances in Chemical Pollution, Environmental Management and Protection*, **2021**, 7, 295-313	1.5	1
64	Biochar for sustainable agriculture: Prospects and implications. *Advances in Chemical Pollution, Environmental Management and Protection*, **2021**, 7, 221-262	1.5	
63	(3-Aminopropyl)triethoxysilane and iron rice straw biochar composites for the sorption of Cr (VI) and Zn (II) using the extract of heavy metals contaminated soil. *Science of the Total Environment*, **2021**, 771, 144764	10.2	12
62	Challenges and strategies for effective plastic waste management during and post COVID-19 pandemic. *Science of the Total Environment*, **2021**, 750, 141514	10.2	221
61	Optimized production of single-use plastic-Eucalyptus wood char composite for application in soil. *Journal of Cleaner Production*, **2021**, 278, 123968	10.3	9
60	Single-use LDPE - Eucalyptus biomass char composite produced from co-pyrolysis has the properties to improve the soil quality. *Chemical Engineering Research and Design*, **2021**, 149, 185-198	5.5	7
59	Reverse Auction Administration in Indian Public Sector Coal Mining, its Effect on the Engineering and Unsustainable Outcomes. *Journal of the Institution of Engineers (India): Series D*, **2021**, 102, 103-111	0.9	1
58	Evaluation of heavy metal leaching under simulated disposal conditions and formulation of strategies for handling solar panel waste. *Science of the Total Environment*, **2021**, 780, 146645	10.2	8
57	Influence of process parameters on thermal characteristics of char from co-pyrolysis of eucalyptus biomass and polystyrene: Its prospects as a solid fuel. *Energy*, **2021**, 232, 121050	7.9	6
56	Inhibitory and synergistic effects on thermal behaviour and char characteristics during the co-pyrolysis of biomass and single-use plastics. *Energy*, **2021**, 235, 121369	7.9	4
55	Char from the co-pyrolysis of Eucalyptus wood and low-density polyethylene for use as high-quality fuel: Influence of process parameters. *Science of the Total Environment*, **2021**, 794, 148723	10.2	3
54	Circular economy approach in solid waste management system to achieve UN-SDGs: Solutions for post-COVID recovery. *Science of the Total Environment*, **2021**, 800, 149605	10.2	31

53	Selective and multicycle removal of Cr(VI) by graphene oxide–EDTA composite: Insight into the removal mechanism and ionic interference in binary and ternary associations. *Environmental Technology and Innovation*, **2020**, 19, 100851	7	15
52	Growth, serum biochemical, and histopathological responses of broilers administered with silver nanoparticles as a drinking water disinfectant. *3 Biotech*, **2020**, 10, 94	2.8	5
51	Wide exposure of persistent organic pollutants (PoPs) in natural waters and sediments of the densely populated Western Bengal basin, India. *Science of the Total Environment*, **2020**, 717, 137187	10.2	27
50	Groundwater vulnerability to pesticide pollution assessment in the alluvial aquifer of Western Bengal basin, India using overlay and index method. *Chemie Der Erde*, **2020**, 80, 125601	4.3	10
49	Potassium-iron rice straw biochar composite for sorption of nitrate, phosphate, and ammonium ions in soil for timely and controlled release. *Science of the Total Environment*, **2020**, 712, 136337	10.2	41
48	Role of aquifer media in determining the fate of polycyclic aromatic hydrocarbons in the natural water and sediments along the lower Ganges river basin. *Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering*, **2020**, 55, 354-373	2.3	6
47	Challenges, opportunities, and innovations for effective solid waste management during and post COVID-19 pandemic. *Resources, Conservation and Recycling*, **2020**, 162, 105052	11.9	251
46	Dispersion, availability, and antimicrobial activity of silver nanoparticles during application to drinking water of the poultry. *Environmental Nanotechnology, Monitoring and Management*, **2020**, 14, 100368	3.3	1
45	β-Cyclodextrin conjugated graphene oxide: A regenerative adsorbent for cadmium and methylene blue. *Journal of Molecular Liquids*, **2019**, 282, 606-616	6	25
44	Groundwater faecal pollution observation in parts of Indo-Ganges–Brahmaputra river basin from in-situ measurements and satellite-based observations. *Journal of Earth System Science*, **2019**, 128, 1	1.8	7
43	Impact of sanitation and socio-economy on groundwater fecal pollution and human health towards achieving sustainable development goals across India from ground-observations and satellite-derived nightlight. *Scientific Reports*, **2019**, 9, 15193	4.9	8
42	Emissions and Environmental Burdens Associated With Plastic Solid Waste Management **2019**, 313-342		11
41	Assessment of the role of silver nanoparticles in reducing poultry mortality, risk and economic benefits. *Applied Nanoscience (Switzerland)*, **2019**, 9, 1293-1307	3.3	10
40	Influence of temperature and duration of pyrolysis on the property heterogeneity of rice straw biochar and optimization of pyrolysis conditions for its application in soils. *Journal of Cleaner Production*, **2019**, 215, 1123-1139	10.3	94
39	Efficient removal of Chromium(VI) from aqueous solution using chitosan grafted graphene oxide (CS-GO) nanocomposite. *International Journal of Biological Macromolecules*, **2019**, 121, 285-292	7.9	107
38	A green approach for single-pot synthesis of graphene oxide and its composite with Mn_3O_4. *Applied Surface Science*, **2018**, 437, 41-50	6.7	14
37	Adsorption of Pb(II) from aqueous solution using a magnetic chitosan/graphene oxide composite and its toxicity studies. *International Journal of Biological Macromolecules*, **2018**, 115, 1142-1150	7.9	105
36	Preparation of graphene oxide/chitosan/ferrite nanocomposite for Chromium(VI) removal from aqueous solution. *International Journal of Biological Macromolecules*, **2018**, 119, 540-547	7.9	70

35	Facile Synthesis of Graphene Oxide for Multicycle Adsorption of Aqueous Pb2+ in the Presence of Divalent Cations and Polyatomic Anions. *Journal of Chemical & Engineering Data*, **2018**, 63, 3465-3474	2.8	6
34	Reactivation of Reactor and Role of Supplement and Neutralizing Substances **2018**, 127-150		
33	Effectiveness of Marine Waste Extract as a Suitable External Nutrient Source **2018**, 199-229		
32	Improvement by Dosing in Schemes of Continuous Treatment: Findings of a Column Study **2018**, 231-263		
31	Reactivating Bacterial Community and Biochemical Events **2018**, 77-97		
30	Ultrasound-assisted synthesis of metal organic framework for the photocatalytic reduction of 4-nitrophenol under direct sunlight. *Ultrasonics Sonochemistry*, **2018**, 49, 215-221	8.9	57
29	An Overview of Agricultural Pollutants and Organic Contaminants in Groundwater of India. *Springer Hydrogeology*, **2018**, 247-255	0.4	1
28	Ultrasonic-assisted synthesis of graphene oxide - fungal hyphae: An efficient and reclaimable adsorbent for chromium(VI) removal from aqueous solution. *Ultrasonics Sonochemistry*, **2018**, 48, 412-417	8.9	43
27	Microbial Treatment of Industrial Wastewater **2018**, 1-42		0
26	A GO-CS@MOF [Zn(BDC)(DMF)] material for the adsorption of chromium(VI) ions from aqueous solution. *Composites Part B: Engineering*, **2018**, 152, 116-125	10	78
25	Nutrients for the Selective Growth of Specific Bacteria **2018**, 43-75		2
24	Optimization of the operation of packed bed bioreactor to improve the sulfate and metal removal from acid mine drainage. *Journal of Environmental Management*, **2017**, 200, 135-144	7.9	26
23	Understanding the performance of sulfate reducing bacteria based packed bed reactor by growth kinetics study and microbial profiling. *Journal of Environmental Management*, **2016**, 177, 101-10	7.9	14
22	Improvement of biological sulfate reduction by supplementation of nitrogen rich extract prepared from organic marine wastes. *International Biodeterioration and Biodegradation*, **2015**, 104, 264-273	4.8	8
21	Suitability of different growth substrates as source of nitrogen for sulfate reducing bacteria. *Biodegradation*, **2015**, 26, 415-30	4.1	5
20	Improvement of the degradation of sulfate rich wastewater using sweetmeat waste (SMW) as nutrient supplement. *Journal of Hazardous Materials*, **2015**, 300, 796-807	12.8	15
19	Reactivation of carbon exhausted sulfidogenic bioreactor by fractionated sweetmeat waste dosing: The role of neutralizing substance and nitrogen supplement. *Environmental Technology and Innovation*, **2014**, 1-2, 35-45	7	1
18	Use of Marine Waste Extract as a Nitrogen Source for Biological Sulfate Reduction: Development of a Suitable Alternative. *Mine Water and the Environment*, **2014**, 33, 362-371	2.4	9

17	A binary and ternary adsorption study of wastewater Cd(II), Ni(II) and Co(II) by Fe2O3 nanotubes. *Separation and Purification Technology*, **2013**, 115, 172-179	8.3	67
16	Sweetmeat waste fractions as suitable organic carbon source for biological sulfate reduction. *International Biodeterioration and Biodegradation*, **2013**, 82, 215-223	4.8	26
15	Removal of Cu(II), Zn(II) and Pb(II) from water using microwave-assisted synthesized maghemite nanotubes. *Chemical Engineering Journal*, **2012**, 211-212, 493-500	14.7	116
14	Understanding of the biochemical events in a chemo-bioreactor during continuous acid mine drainage treatment. *Environmental Earth Sciences*, **2012**, 66, 607-614	2.9	13
13	MICROWAVE-ASSISTED SYNTHESIS AND CHARACTERIZATION OF CaS NANOPARTICLES. *International Journal of Nanoscience*, **2012**, 11, 1250027	0.6	3
12	Development and Validation of a Spectrophotometric Method to Measure Sulfate Concentrations in Mine Water without Interference. *Mine Water and the Environment*, **2011**, 30, 169-174	2.4	26
11	MICROWAVE-ASSISTED SYNTHESIS AND CHARACTERIZATION OF CaO NANOPARTICLES. *International Journal of Nanoscience*, **2011**, 10, 413-418	0.6	45
10	Performance of a SAPS-Based Chemo-Bioreactor Treating Acid Mine Drainage Using Low-DOC Spent Mushroom Compost, and Limestone as Substrate. *Mine Water and the Environment*, **2010**, 29, 217-224	2.4	27
9	Eukaryotes in acidic mine drainage environments: potential applications in bioremediation. *Reviews in Environmental Science and Biotechnology*, **2009**, 8, 257-274	13.9	17
8	Occurrence and role of algae and fungi in acid mine drainage environment with special reference to metals and sulfate immobilization. *Water Research*, **2009**, 43, 883-94	12.5	120
7	Treatment of acidic coal mine drainage: design and operational challenges of successive alkalinity producing systems. *Mine Water and the Environment*, **2008**, 27, 12-19	2.4	29
6	Reliability Analysis of a conveyor system using hybrid data. *Quality and Reliability Engineering International*, **2007**, 23, 867-882	2.6	38
5	ARD generation and corrosion potential of exposed roadside rockmass at Boeun and Mujoo, South Korea. *Environmental Geology*, **2007**, 52, 1033-1043		11
4	Cost-effective indicator tool for resource prioritization. *Safety and Reliability*, **2007**, 27, 36-52	0.4	
3	Microbial Growth and Action: Implications for Passive Bioremediation of Acid Mine Drainage. *Mine Water and the Environment*, **2006**, 25, 233-240	2.4	22
2	Computer aided study to estimate dump denudation due to rain water flow. *International Journal of Mining, Reclamation and Environment*, **1997**, 11, 209-211		
1	Mechanization and Automation. Spectrum Analysis of Drilling Noise for Estimating the Mechanical Properties of Rock.. *Shigen-to-Sozai*, **1996**, 112, 525-529		