

Jayanta Bhattacharya

List of Publications by Citations

Source: <https://exaly.com/author-pdf/1746183/jayanta-bhattacharya-publications-by-citations.pdf>

Version: 2024-04-20

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Challenges, opportunities, and innovations for effective solid waste management during and post COVID-19 pandemic. <i>Resources, Conservation and Recycling</i> , 2020 , 162, 105052	11.9	251
69	Challenges and strategies for effective plastic waste management during and post COVID-19 pandemic. <i>Science of the Total Environment</i> , 2021 , 750, 141514	10.2	221
68	Occurrence and role of algae and fungi in acid mine drainage environment with special reference to metals and sulfate immobilization. <i>Water Research</i> , 2009 , 43, 883-94	12.5	120
67	Removal of Cu(II), Zn(II) and Pb(II) from water using microwave-assisted synthesized maghemite nanotubes. <i>Chemical Engineering Journal</i> , 2012 , 211-212, 493-500	14.7	116
66	Efficient removal of Chromium(VI) from aqueous solution using chitosan grafted graphene oxide (CS-GO) nanocomposite. <i>International Journal of Biological Macromolecules</i> , 2019 , 121, 285-292	7.9	107
65	Adsorption of Pb(II) from aqueous solution using a magnetic chitosan/graphene oxide composite and its toxicity studies. <i>International Journal of Biological Macromolecules</i> , 2018 , 115, 1142-1150	7.9	105
64	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. <i>Journal of Cleaner Production</i> , 2019 , 215, 1123-1139	10.3	94
63	A GO-CS@MOF [Zn(BDC)(DMF)] material for the adsorption of chromium(VI) ions from aqueous solution. <i>Composites Part B: Engineering</i> , 2018 , 152, 116-125	10	78
62	Preparation of graphene oxide/chitosan/ferrite nanocomposite for Chromium(VI) removal from aqueous solution. <i>International Journal of Biological Macromolecules</i> , 2018 , 119, 540-547	7.9	70
61	A binary and ternary adsorption study of wastewater Cd(II), Ni(II) and Co(II) by EFe ₂ O ₃ nanotubes. <i>Separation and Purification Technology</i> , 2013 , 115, 172-179	8.3	67
60	Ultrasound-assisted synthesis of metal organic framework for the photocatalytic reduction of 4-nitrophenol under direct sunlight. <i>Ultrasonics Sonochemistry</i> , 2018 , 49, 215-221	8.9	57
59	MICROWAVE-ASSISTED SYNTHESIS AND CHARACTERIZATION OF CaO NANOPARTICLES. <i>International Journal of Nanoscience</i> , 2011 , 10, 413-418	0.6	45
58	Ultrasonic-assisted synthesis of graphene oxide - fungal hyphae: An efficient and reclaimable adsorbent for chromium(VI) removal from aqueous solution. <i>Ultrasonics Sonochemistry</i> , 2018 , 48, 412-417	8.9	43
57	Potassium-iron rice straw biochar composite for sorption of nitrate, phosphate, and ammonium ions in soil for timely and controlled release. <i>Science of the Total Environment</i> , 2020 , 712, 136337	10.2	41
56	Reliability Analysis of a conveyor system using hybrid data. <i>Quality and Reliability Engineering International</i> , 2007 , 23, 867-882	2.6	38
55	Circular economy approach in solid waste management system to achieve UN-SDGs: Solutions for post-COVID recovery. <i>Science of the Total Environment</i> , 2021 , 800, 149605	10.2	31
54	Treatment of acidic coal mine drainage: design and operational challenges of successive alkalinity producing systems. <i>Mine Water and the Environment</i> , 2008 , 27, 12-19	2.4	29

53	Wide exposure of persistent organic pollutants (PoPs) in natural waters and sediments of the densely populated Western Bengal basin, India. <i>Science of the Total Environment</i> , 2020 , 717, 137187	10.2	27
52	Performance of a SAPS-Based Chemo-Bioreactor Treating Acid Mine Drainage Using Low-DOC Spent Mushroom Compost, and Limestone as Substrate. <i>Mine Water and the Environment</i> , 2010 , 29, 217-224	2.4	27
51	Optimization of the operation of packed bed bioreactor to improve the sulfate and metal removal from acid mine drainage. <i>Journal of Environmental Management</i> , 2017 , 200, 135-144	7.9	26
50	Sweetmeat waste fractions as suitable organic carbon source for biological sulfate reduction. <i>International Biodeterioration and Biodegradation</i> , 2013 , 82, 215-223	4.8	26
49	Development and Validation of a Spectrophotometric Method to Measure Sulfate Concentrations in Mine Water without Interference. <i>Mine Water and the Environment</i> , 2011 , 30, 169-174	2.4	26
48	βCyclodextrin conjugated graphene oxide: A regenerative adsorbent for cadmium and methylene blue. <i>Journal of Molecular Liquids</i> , 2019 , 282, 606-616	6	25
47	Microbial Growth and Action: Implications for Passive Bioremediation of Acid Mine Drainage. <i>Mine Water and the Environment</i> , 2006 , 25, 233-240	2.4	22
46	Eukaryotes in acidic mine drainage environments: potential applications in bioremediation. <i>Reviews in Environmental Science and Biotechnology</i> , 2009 , 8, 257-274	13.9	17
45	Improvement of the degradation of sulfate rich wastewater using sweetmeat waste (SMW) as nutrient supplement. <i>Journal of Hazardous Materials</i> , 2015 , 300, 796-807	12.8	15
44	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. <i>Environmental Technology and Innovation</i> , 2020 , 19, 100851	7	15
43	A green approach for single-pot synthesis of graphene oxide and its composite with Mn ₃ O ₄ . <i>Applied Surface Science</i> , 2018 , 437, 41-50	6.7	14
42	Understanding the performance of sulfate reducing bacteria based packed bed reactor by growth kinetics study and microbial profiling. <i>Journal of Environmental Management</i> , 2016 , 177, 101-110	7.9	14
41	Understanding of the biochemical events in a chemo-bioreactor during continuous acid mine drainage treatment. <i>Environmental Earth Sciences</i> , 2012 , 66, 607-614	2.9	13
40	(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. <i>Science of the Total Environment</i> , 2021 , 771, 144764	10.2	12
39	ARD generation and corrosion potential of exposed roadside rockmass at Boeun and Mujoo, South Korea. <i>Environmental Geology</i> , 2007 , 52, 1033-1043		11
38	Emissions and Environmental Burdens Associated With Plastic Solid Waste Management 2019 , 313-342		11
37	Groundwater vulnerability to pesticide pollution assessment in the alluvial aquifer of Western Bengal basin, India using overlay and index method. <i>Chemie Der Erde</i> , 2020 , 80, 125601	4.3	10
36	Assessment of the role of silver nanoparticles in reducing poultry mortality, risk and economic benefits. <i>Applied Nanoscience (Switzerland)</i> , 2019 , 9, 1293-1307	3.3	10

35	Use of Marine Waste Extract as a Nitrogen Source for Biological Sulfate Reduction: Development of a Suitable Alternative. <i>Mine Water and the Environment</i> , 2014 , 33, 362-371	2.4	9
34	Optimized production of single-use plastic-Eucalyptus wood char composite for application in soil. <i>Journal of Cleaner Production</i> , 2021 , 278, 123968	10.3	9
33	Improvement of biological sulfate reduction by supplementation of nitrogen rich extract prepared from organic marine wastes. <i>International Biodeterioration and Biodegradation</i> , 2015 , 104, 264-273	4.8	8
32	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. <i>Scientific Reports</i> , 2019 , 9, 15193	4.9	8
31	Evaluation of heavy metal leaching under simulated disposal conditions and formulation of strategies for handling solar panel waste. <i>Science of the Total Environment</i> , 2021 , 780, 146645	10.2	8
30	Groundwater faecal pollution observation in parts of Indo-GangesBrahmaputra river basin from in-situ measurements and satellite-based observations. <i>Journal of Earth System Science</i> , 2019 , 128, 1	1.8	7
29	Single-use LDPE - Eucalyptus biomass char composite produced from co-pyrolysis has the properties to improve the soil quality. <i>Chemical Engineering Research and Design</i> , 2021 , 149, 185-198	5.5	7
28	Facile Synthesis of Graphene Oxide for Multicycle Adsorption of Aqueous Pb ²⁺ in the Presence of Divalent Cations and Polyatomic Anions. <i>Journal of Chemical & Engineering Data</i> , 2018 , 63, 3465-3474	2.8	6
27	Role of aquifer media in determining the fate of polycyclic aromatic hydrocarbons in the natural water and sediments along the lower Ganges river basin. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2020 , 55, 354-373	2.3	6
26	Influence of process parameters on thermal characteristics of char from co-pyrolysis of eucalyptus biomass and polystyrene: Its prospects as a solid fuel. <i>Energy</i> , 2021 , 232, 121050	7.9	6
25	Suitability of different growth substrates as source of nitrogen for sulfate reducing bacteria. <i>Biodegradation</i> , 2015 , 26, 415-30	4.1	5
24	Growth, serum biochemical, and histopathological responses of broilers administered with silver nanoparticles as a drinking water disinfectant. <i>3 Biotech</i> , 2020 , 10, 94	2.8	5
23	Inhibitory and synergistic effects on thermal behaviour and char characteristics during the co-pyrolysis of biomass and single-use plastics. <i>Energy</i> , 2021 , 235, 121369	7.9	4
22	MICROWAVE-ASSISTED SYNTHESIS AND CHARACTERIZATION OF CaS NANOPARTICLES. <i>International Journal of Nanoscience</i> , 2012 , 11, 1250027	0.6	3
21	Char from the co-pyrolysis of Eucalyptus wood and low-density polyethylene for use as high-quality fuel: Influence of process parameters. <i>Science of the Total Environment</i> , 2021 , 794, 148723	10.2	3
20	Nutrients for the Selective Growth of Specific Bacteria 2018 , 43-75		2
19	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.. <i>Environmental Science and Pollution Research</i> , 2022 , 1	5.1	2
18	An Overview of Agricultural Pollutants and Organic Contaminants in Groundwater of India. <i>Springer Hydrogeology</i> , 2018 , 247-255	0.4	1

17	Reactivation of carbon exhausted sulfidogenic bioreactor by fractionated sweetmeat waste dosing: The role of neutralizing substance and nitrogen supplement. <i>Environmental Technology and Innovation</i> , 2014 , 1-2, 35-45	7	1
16	Neural Network and Random Forest-Based Analyses of the Performance of Community Drinking Water Arsenic Treatment Plants. <i>Water (Switzerland)</i> , 2021 , 13, 3507	3	1
15	Influence of process parameters for production of biochar: A potential tool for an energy transition. <i>Advances in Chemical Pollution, Environmental Management and Protection</i> , 2021 , 7, 295-313	1.5	1
14	Dispersion, availability, and antimicrobial activity of silver nanoparticles during application to drinking water of the poultry. <i>Environmental Nanotechnology, Monitoring and Management</i> , 2020 , 14, 100368	3.3	1
13	Reverse Auction Administration in Indian Public Sector Coal Mining, its Effect on the Engineering and Unsustainable Outcomes. <i>Journal of the Institution of Engineers (India): Series D</i> , 2021 , 102, 103-111	0.9	1
12	Microbial Treatment of Industrial Wastewater 2018 , 1-42		0
11	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.. <i>Environmental Science and Pollution Research</i> , 2022 , 1	5.1	0
10	Reactivation of Reactor and Role of Supplement and Neutralizing Substances 2018 , 127-150		
9	Effectiveness of Marine Waste Extract as a Suitable External Nutrient Source 2018 , 199-229		
8	Improvement by Dosing in Schemes of Continuous Treatment: Findings of a Column Study 2018 , 231-263		
7	Reactivating Bacterial Community and Biochemical Events 2018 , 77-97		
6	Computer aided study to estimate dump denudation due to rain water flow. <i>International Journal of Mining, Reclamation and Environment</i> , 1997 , 11, 209-211		
5	Cost-effective indicator tool for resource prioritization. <i>Safety and Reliability</i> , 2007 , 27, 36-52	0.4	
4	Biochar for sustainable agriculture: Prospects and implications. <i>Advances in Chemical Pollution, Environmental Management and Protection</i> , 2021 , 7, 221-262	1.5	
3	Geogenic sulfate-rich wastewater: Sources, characteristics, effects and treatment technologies 2022 , 249-273		
2	Mechanization and Automation. Spectrum Analysis of Drilling Noise for Estimating the Mechanical Properties of Rock.. <i>Shigen-to-Sozai</i> , 1996 , 112, 525-529		
1	Efficacy of silver nanoparticles-based foliar spray application to control plant diseases, its effect on productivity, and risk assessment. <i>Arabian Journal of Geosciences</i> , 2022 , 15, 1	1.8	