

Diane Purchase

List of Publications by Citations

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

55
papers

1,051
citations

19
h-index

31
g-index

64
ext. papers

1,414
ext. citations

4.8
avg, IF

5.26
L-index

#	Paper	IF	Citations
55	Ecotoxicological and health concerns of persistent coloring pollutants of textile industry wastewater and treatment approaches for environmental safety. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 105012	6.8	108
54	The treatment of metals in urban runoff by constructed wetlands. <i>Science of the Total Environment</i> , 1998 , 214, 211-219	10.2	81
53	Phytoremediation of Heavy Metal-Contaminated Sites: Eco-environmental Concerns, Field Studies, Sustainability Issues, and Future Prospects. <i>Reviews of Environmental Contamination and Toxicology</i> , 2020 , 249, 71-131	3.5	72
52	Phytotoxicity, cytotoxicity and genotoxicity evaluation of organic and inorganic pollutants rich tannery wastewater from a Common Effluent Treatment Plant (CETP) in Unnao district, India using <i>Vigna radiata</i> and <i>Allium cepa</i> . <i>Chemosphere</i> , 2019 , 224, 324-332	8.4	66
51	Applications of Metagenomics in Microbial Bioremediation of Pollutants 2019 , 459-477		57
50	Consideration of the bioavailability of metal/metalloid species in freshwaters: experiences regarding the implementation of biotic ligand model-based approaches in risk assessment frameworks. <i>Environmental Science and Pollution Research</i> , 2015 , 22, 7405-21	5.1	46
49	Effects of temperature on metal tolerance and the accumulation of Zn and Pb by metal-tolerant fungi isolated from urban runoff treatment wetlands. <i>Journal of Applied Microbiology</i> , 2009 , 106, 1163-74	4.7	44
48	Cadmium uptake and nitrogen fixing ability in heavy-metal-resistant laboratory and field strains of <i>Rhizobium leguminosarum</i> biovar <i>trifolii</i> . <i>FEMS Microbiology Ecology</i> , 2006 , 22, 85-93	4.3	42
47	Effectiveness of domestic antibacterial products in decontaminating food contact surfaces. <i>Food Microbiology</i> , 2007 , 24, 425-30	6	41
46	Effects of arsenate (AS ₅ ⁺) on growth and production of glutathione (GSH) and phytochelatin (PCS) in <i>Chlorella vulgaris</i> . <i>International Journal of Phytoremediation</i> , 2011 , 13, 834-44	3.9	38
45	Identification and characterisation of a <i>Bacillus licheniformis</i> strain with profound keratinase activity for degradation of melanised feather. <i>International Biodeterioration and Biodegradation</i> , 2012 , 74, 54-60	4.8	34
44	Heavy metals distribution and risk assessment in soil from an informal E-waste recycling site in Lagos State, Nigeria. <i>Environmental Science and Pollution Research</i> , 2017 , 24, 17206-17219	5.1	31
43	Isolation and characterization of lignin-degrading bacterium from pulp and paper mill wastewater and evaluation of its lignin-degrading potential. <i>3 Biotech</i> , 2019 , 9, 92	2.8	31
42	The removal of urban pollutants by constructed wetlands during wet weather. <i>Water Science and Technology</i> , 1999 , 40, 333	2.2	27
41	Translocation of heavy metals in medicinally important herbal plants growing on complex organometallic sludge of sugarcane molasses-based distillery waste. <i>Environmental Technology and Innovation</i> , 2021 , 22, 101434	7	24
40	Residual pollutants in treated pulp paper mill wastewater and their phytotoxicity and cytotoxicity in <i>Allium cepa</i> . <i>Environmental Geochemistry and Health</i> , 2021 , 43, 2143-2164	4.7	23
39	Integrating phytoremediation into treatment of pulp and paper industry wastewater: Field observations of native plants for the detoxification of metals and their potential as part of a multidisciplinary strategy. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 105547	6.8	23

38	Environment friendly degradation and detoxification of Congo red dye and textile industry wastewater by a newly isolated <i>Bacillus cohnii</i> (RKS9). <i>Environmental Technology and Innovation</i> , 2021 , 22, 101425	7	22
37	Expression and Content of Terminal Oxidases in <i>Azotobacter Vinelandii</i> Grown with Excess NH ⁺ are Modulated by O Supply. <i>Microbiology (United Kingdom)</i> , 1997 , 143, 231-237	2.9	20
36	Survival and nodulating ability of indigenous and inoculated <i>Rhizobium leguminosarum</i> biovar trifolii in sterilized and unsterilized soil treated with sewage sludge. <i>Current Microbiology</i> , 2001 , 42, 59-64	2.4	19
35	Distillery wastewater detoxification and management through phytoremediation employing <i>Ricinus communis</i> L. <i>Bioresource Technology</i> , 2021 , 333, 125192	11	19
34	Enzymatic formulation capable of degrading scrapie prion under mild digestion conditions. <i>PLoS ONE</i> , 2013 , 8, e68099	3.7	17
33	Use of sequential extraction procedures for the analysis of cadmium and lead in sediment samples from a constructed wetland. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2000 , 64, 51-8	2.7	16
32	Global occurrence, chemical properties, and ecological impacts of e-wastes (IUPAC Technical Report). <i>Pure and Applied Chemistry</i> , 2020 , 92, 1733-1767	2.1	15
31	The mechanisms of detoxification of As(III), dimethylarsinic acid (DMA) and As(V) in the microalga <i>Chlorella vulgaris</i> . <i>Aquatic Toxicology</i> , 2016 , 175, 56-72	5.1	14
30	Enhanced determination of As ³⁺ phytochelatin complexes in <i>Chlorella vulgaris</i> using focused sonication for extraction of water-soluble species. <i>Analytical Methods</i> , 2014 , 6, 791-797	3.2	14
29	Degradation and detoxification of leather tannery effluent by a newly developed bacterial consortium GS-TE1310 for environmental safety. <i>Journal of Water Process Engineering</i> , 2020 , 38, 101592	6.7	13
28	Biodegradation of organo-metallic pollutants in distillery wastewater employing a bioaugmentation process. <i>Environmental Technology and Innovation</i> , 2021 , 23, 101774	7	11
27	Competition of As and other Group 15 elements for surface binding sites of an extremophilic <i>Acidomyces acidophilus</i> isolated from a historical tin mining site. <i>Extremophiles</i> , 2018 , 22, 795-809	3	8
26	Environmental Hazards and Toxicity Profile of Organic and Inorganic Pollutants of Tannery Wastewater and Bioremediation Approaches 2020 , 381-398		7
25	Fungal Applications in Sustainable Environmental Biotechnology. <i>Fungal Biology</i> , 2016 ,	2.3	6
24	Levels of Awareness and Concentrations of Heavy Metals in the Blood of Electronic Waste Scavengers in Nigeria. <i>Journal of Health and Pollution</i> , 2019 , 9, 190311	2.6	6
23	Application of Microalgae and Fungal-Microalgal Associations for Wastewater Treatment. <i>Fungal Biology</i> , 2016 , 143-181	2.3	5
22	Degradation mechanism and toxicity reduction of methyl orange dye by a newly isolated bacterium <i>Pseudomonas aeruginosa</i> MZ520730. <i>Journal of Water Process Engineering</i> , 2021 , 43, 102300	6.7	5
21	Mycoremediation of Heavy Metal/Metalloid-Contaminated Soil: Current Understanding and Future Prospects. <i>Fungal Biology</i> , 2016 , 249-272	2.3	4

20	Quorum sensing - a promising tool for degradation of industrial waste containing persistent organic pollutants. <i>Environmental Pollution</i> , 2022 , 292, 118342	9.3	4
19	Degradation mechanism of tris(2-chloroethyl) phosphate (TCEP) as an emerging contaminant in advanced oxidation processes: A DFT modelling approach. <i>Chemosphere</i> , 2021 , 273, 129674	8.4	4
18	Innovative methods of ground improvement for railway embankment peat fens foundation soil. <i>Geotechnique</i> , 2021 , 1-14	3.4	4
17	A critical review of household recycling barriers in the United Kingdom. <i>Waste Management and Research</i> , 2021 , 734242X211060619	4	3
16	Phytoremediation Using Native Plants. <i>Concepts and Strategies in Plant Sciences</i> , 2020 , 285-327	0.5	3
15	Microbial community dynamics and their relationships with organic and metal pollutants of sugarcane molasses-based distillery wastewater sludge. <i>Environmental Pollution</i> , 2022 , 292, 118267	9.3	3
14	Antibiotic-Resistant Genes and Bacteria as Evolving Contaminants of Emerging Concerns (e-CEC): Is It Time to Include Evolution in Risk Assessment?. <i>Antibiotics</i> , 2021 , 10,	4.9	3
13	<i>Acidomyces acidophilus</i> : Ecology, Biochemical Properties and Application to Bioremediation 2019 , 505-515		2
12	Plant growth promoting strain <i>Bacillus cereus</i> (RCS-4 MZ520573.1) enhances phytoremediation potential of <i>Cynodon dactylon</i> L. in distillery sludge.. <i>Environmental Research</i> , 2022 , 112709	7.9	2
11	Environmental and Health Hazards of Textile Industry Wastewater Pollutants and Its Treatment Approaches 2020 , 1-24		2
10	Electrokinetic biocementation of an organic soil. <i>Sustainable Chemistry and Pharmacy</i> , 2021 , 21, 100405	3.9	2
9	Educational Activities for Students and Citizens Supporting the One-Health Approach on Antimicrobial Resistance.. <i>Antibiotics</i> , 2021 , 10,	4.9	2
8	Exploitation of nitric oxide donors to control bacterial adhesion on ready-to-eat vegetables and dispersal of pathogenic biofilm from polypropylene. <i>Journal of the Science of Food and Agriculture</i> , 2020 , 100, 3078-3086	4.3	1
7	Unraveling the secrets of rhizobacteria signaling in rhizosphere. <i>Rhizosphere</i> , 2022 , 21, 100484	3.5	1
6	Characterization of persistent organic pollutants and culturable and non-culturable bacterial communities in pulp and paper sludge after secondary treatment.. <i>Chemosphere</i> , 2022 , 295, 133892	8.4	0
5	Characterization of industrially pre-treated waste printed circuit boards for the potential recovery of rare earth elements. <i>Environmental Technology and Innovation</i> , 2022 , 27, 102481	7	0
4	Mitigation of hazards and risks of emerging pollutants through innovative treatment techniques of post methanated distillery effluent - A review.. <i>Chemosphere</i> , 2022 , 134586	8.4	0
3	Mathematical models to predict soil heavy metal toxicity in the 2012 Olympic site. <i>International Journal of Environmental Science and Technology</i> , 2012 , 9, 219-226	3.3	

- 2 Implementation of biocementation for a partially saturated problematic soil of the UK railway network. *E3S Web of Conferences*, **2020**, 195, 05006 0.5
- 1 Molecular techniques used to identify perfluorooctanoic acid degrading microbes and their application in a wastewater treatment reactor/plant **2021**, 253-271