Diane Purchase

List of Publications by Year
in descending order

64 papers	1,977 citations	331538 21 h-index	276775 41 g-index
65 all docs	65 docs citations	65 times ranked	1767 citing authors

#	Article	IF	Citations
1	Ecotoxicological and health concerns of persistent coloring pollutants of textile industry wastewater and treatment approaches for environmental safety. Journal of Environmental Chemical Engineering, 2021, 9, 105012.	3.3	450
2	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 Vigna radiata and Allium cepa. Chemosphere, 2019, 224, 324-332.	4.2	111
3	Phytoremediation of Heavy Metal-Contaminated Sites: Eco-environmental Concerns, Field Studies, Sustainability Issues, and Future Prospects. Reviews of Environmental Contamination and Toxicology, 2019, 249, 71-131.	0.7	103
4	The treatment of metals in urban runoff by constructed wetlands. Science of the Total Environment, 1998, 214, 211-219.	3.9	94
5	Applications of Metagenomics in Microbial Bioremediation of Pollutants. , 2019, , 459-477.		84
6	Consideration of the bioavailability of metal/metalloid species in freshwaters: experiences regarding the implementation of biotic ligand model-based approaches in risk assessment frameworks. Environmental Science and Pollution Research, 2015, 22, 7405-7421.	2.7	58
7	Effects of temperature on metal tolerance and the accumulation of Zn and Pb by metal-tolerant fungi isolated from urban runoff treatment wetlands. Journal of Applied Microbiology, 2009, 106, 1163-1174.	1.4	56
8	Cadmium uptake and nitrogen fixing ability in heavy-metal-resistant laboratory and field strains of Rhizobium leguminosarum biovar trifolii. FEMS Microbiology Ecology, 2006, 22, 85-93.	1.3	55
9	Isolation and characterization of lignin-degrading bacterium Bacillus aryabhattai from pulp and paper mill wastewater and evaluation of its lignin-degrading potential. 3 Biotech, 2019, 9, 92.	1.1	54
10	Technical Note: Effects of Arsenate (AS⁵⁺) on Growth and Production of Glutathione (GSH) and Phytochelatins (PCS) inChlorella Vulgaris. International Journal of Phytoremediation, 2011, 13, 834-844.	1.7	52
11	Environment friendly degradation and detoxification of Congo red dye and textile industry wastewater by a newly isolated Bacillus cohnni (RKS9). Environmental Technology and Innovation, 2021, 22, 101425.	3.0	50
12	Heavy metals distribution and risk assessment in soil from an informal E-waste recycling site in Lagos State, Nigeria. Environmental Science and Pollution Research, 2017, 24, 17206-17219.	2.7	48
13	Effectiveness of domestic antibacterial products in decontaminating food contact surfaces. Food Microbiology, 2007, 24, 425-430.	2.1	44
14	Degradation mechanism and toxicity reduction of methyl orange dye by a newly isolated bacterium Pseudomonas aeruginosa MZ520730. Journal of Water Process Engineering, 2021, 43, 102300.	2.6	44
15	Residual pollutants in treated pulp paper mill wastewater and their phytotoxicity and cytotoxicity in Allium cepa. Environmental Geochemistry and Health, 2021, 43, 2143-2164.	1.8	42
16	Global occurrence, chemical properties, and ecological impacts of e-wastes (IUPAC Technical Report). Pure and Applied Chemistry, 2020, 92, 1733-1767.	0.9	42
17	Identification and characterisation of a Bacillus licheniformis strain with profound keratinase activity for degradation of melanised feather. International Biodeterioration and Biodegradation, 2012, 74, 54-60.	1.9	41
18	Translocation of heavy metals in medicinally important herbal plants growing on complex organometallic sludge of sugarcane molasses-based distillery waste. Environmental Technology and Innovation, 2021, 22, 101434.	3.0	41

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19	Distillery wastewater detoxification and management through phytoremediation employing Ricinus communis L.. Bioresource Technology, 2021, 333, 125192.	4.8	40
20	The removal of urban pollutants by constructed wetlands during wet weather. Water Science and Technology, 1999, 40, 333.	1.2	39
21	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. Journal of Environmental Chemical Engineering, 2021, 9, 105547.	3.3	33
22	Quorum sensing - a promising tool for degradation of industrial waste containing persistent organic pollutants. Environmental Pollution, 2022, 292, 118342.	3.7	26
23	Expression and Content of Terminal Oxidases in Azotobacter Vinelandii Grown with Excess NH4+ are Modulated by O2 Supply. Microbiology (United Kingdom), 1997, 143, 231-237.	0.7	22
24	Degradation and detoxification of leather tannery effluent by a newly developed bacterial consortium GS-TE1310 for environmental safety. Journal of Water Process Engineering, 2020, 38, 101592.	2.6	22
25	The mechanisms of detoxification of As(III), dimethylarsinic acid (DMA) and As(V) in the microalga Chlorella vulgaris. Aquatic Toxicology, 2016, 175, 56-72.	1.9	20
26	Use of Sequential Extraction Procedures for the Analysis of Cadmium and Lead in Sediment Samples from a Constructed Wetland. Bulletin of Environmental Contamination and Toxicology, 2000, 64, 51-58.	1.3	19
27	Survival and Nodulating Ability of Indigenous and Inoculated Rhizobium leguminosarum biovar trifolii in Sterilized and Unsterilized Soil Treated with Sewage Sludge. Current Microbiology, 2001, 42, 59-64.	1.0	19
28	Enzymatic Formulation Capable of Degrading Scrapie Prion under Mild Digestion Conditions. PLoS ONE, 2013, 8, e68099.	1.1	18
29	Biodegradation of organo-metallic pollutants in distillery wastewater employing a bioaugmentation process. Environmental Technology and Innovation, 2021, 23, 101774.	3.0	17
30	Fungal Applications in Sustainable Environmental Biotechnology. Fungal Biology, 2016, , .	0.3	16
31	Enhanced determination of Asâ€“phytochelatin complexes in Chlorella vulgaris using focused sonication for extraction of water-soluble species. Analytical Methods, 2014, 6, 791-797.	1.3	15
32	Microbial community dynamics and their relationships with organic and metal pollutants of sugarcane molasses-based distillery wastewater sludge. Environmental Pollution, 2022, 292, 118267.	3.7	15
33	Environmental Hazards and Toxicity Profile of Organic and Inorganic Pollutants of Tannery Wastewater and Bioremediation Approaches. , 2020, , 381-398.		14
34	Innovative methods of ground improvement for railway embankment peat fens foundation soil. Geotechnique, 2021, 71, 985-998.	2.2	13
35	Levels of Awareness and Concentrations of Heavy Metals in the Blood of Electronic Waste Scavengers in Nigeria. Journal of Health and Pollution, 2019, 9, 190311.	1.8	13
36	Degradation mechanism of tris(2-chloroethyl) phosphate (TCEP) as an emerging contaminant in advanced oxidation processes: A DFT modelling approach. Chemosphere, 2021, 273, 129674.	4.2	12

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37	A critical review of household recycling barriers in the United Kingdom. Waste Management and Research, 2022, 40, 905-918.	2.2	11
38	Antibiotic-Resistant Genes and Bacteria as Evolving Contaminants of Emerging Concerns (e-CEC): Is It Time to Include Evolution in Risk Assessment?. Antibiotics, 2021, 10, 1066.	1.5	10
39	Application of Microalgae and Fungal-Microalgal Associations for Wastewater Treatment. Fungal Biology, 2016, , 143-181.	0.3	9
40	Competition of As and other Group 15 elements for surface binding sites of an extremophilic Acidomyces acidophilus isolated from a historical tin mining site. Extremophiles, 2018, 22, 795-809.	0.9	9
41	Educational Activities for Students and Citizens Supporting the One-Health Approach on Antimicrobial Resistance. Antibiotics, 2021, 10, 1519.	1.5	9
42	Unraveling the secrets of rhizobacteria signaling in rhizosphere. Rhizosphere, 2022, 21, 100484.	1.4	8
43	The Bacterial Urban Resistome: Recent Advances. Antibiotics, 2022, 11, 512.	1.5	8
44	Electrokinetic biocementation of an organic soil. Sustainable Chemistry and Pharmacy, 2021, 21, 100405.	1.6	7
45	Release of microplastic fibres and fragmentation to billions of nanoplastics from period products: preliminary assessment of potential health implications. Environmental Science: Nano, 2022, 9, 606-620.	2.2	7
46	Plant growth promoting strain Bacillus cereus (RCS-4 MZ520573.1) enhances phytoremediation potential of Cynodon dactylon L. in distillery sludge. Environmental Research, 2022, 208, 112709.	3.7	7
47	Characterization of industrially pre-treated waste printed circuit boards for the potential recovery of rare earth elements. Environmental Technology and Innovation, 2022, 27, 102481.	3.0	7
48	Mycoremediation of Heavy Metal/Metalloid-Contaminated Soil: Current Understanding and Future Prospects. Fungal Biology, 2016, , 249-272.	0.3	6
49	Characterization of persistent organic pollutants and culturable and non-culturable bacterial communities in pulp and paper sludge after secondary treatment. Chemosphere, 2022, 295, 133892.	4.2	6
50	Mitigation of hazards and risks of emerging pollutants through innovative treatment techniques of post methanated distillery effluent - A review. Chemosphere, 2022, 300, 134586.	4.2	5
51	Phytoremediation Using Native Plants. Concepts and Strategies in Plant Sciences, 2020, , 285-327.	0.6	4
52	Extracellular Polymeric Substances Facilitate the Adsorption and Migration of Cu2+ and Cd2+ in Saturated Porous Media. Biomolecules, 2021, 11, 1715.	1.8	4
53	Exploitation of nitric oxide donors to control bacterial adhesion on readyâ€toâ€eat vegetables and dispersal of pathogenic biofilm from polypropylene. Journal of the Science of Food and Agriculture, 2020, 100, 3078-3086.	1.7	3
54	Environmental and Health Hazards of Textile Industry Wastewater Pollutants and Its Treatment Approaches. , 2020, , 1-24.		3

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55	Acidomyces acidophilus: Ecology, Biochemical Properties and Application to Bioremediation. , 2019, , 505-515.		2
56	Cadmium uptake and nitrogen fixing ability in heavy-metal-resistant laboratory and field strains of Rhizobium leguminosarum biovar trifolii. FEMS Microbiology Ecology, 1997, 22, 85-93.	1.3	2
57	Molecular techniques used to identify perfluorooctanoic acid degrading microbes and their application in a wastewater treatment reactor/plant. , 2021, , 253-271.		1
58	Microbial Applications. , 2016, , .		1
59	Implementation of biocementation for a partially saturated problematic soil of the UK railway network. E3S Web of Conferences, 2020, 195, 05006.	0.2	1
60	Mathematical models to predict soil heavy metal toxicity in the 2012 Olympic site. International Journal of Environmental Science and Technology, 2012, 9, 219-226.	1.8	0
61	Chemistry and the Environment. Chemistry International, 2018, 40, 46-51.	0.3	0
62	Innovative Chemistry for Environmental Enhancement. Chemistry International, 2020, 42, 41-44.	0.3	0
63	Alternative extraction of bergenin: A case study of valuation for technology transfer. Journal of Biotechnology & Biomaterials, 2016, 06, .	0.3	0
64	Environmental Chemistry and Sustainability. Chemistry International, 2022, 44, 45-48.	0.3	0