

Devayani R Tipre

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

835
citations

516710

16
h-index

526287

27
g-index

53
all docs

53
docs citations

53
times ranked

810
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimization of triazo Acid Black 210 dye degradation by <i>Providencia</i> sp. SRS82 and elucidation of degradation pathway. <i>Process Biochemistry</i> , 2014, 49, 110-119.	3.7	83
2	Bioleaching process for Cu-Pb-Zn bulk concentrate at high pulp density. <i>Hydrometallurgy</i> , 2004, 75, 37-43.	4.3	57
3	Development of two-step process for enhanced biorecovery of Cu-Zn-Ni from computer printed circuit boards. <i>Journal of Bioscience and Bioengineering</i> , 2015, 120, 167-173.	2.2	53
4	Characterization of arsenic resistant and arsenopyrite oxidizing <i>Acidithiobacillus ferrooxidans</i> from Hutti gold leachate and effluents. <i>Bioresource Technology</i> , 2008, 99, 7514-7520.	9.6	47
5	Chemical and biological processes for multi-metal extraction from waste printed circuit boards of computers and mobile phones. <i>Waste Management and Research</i> , 2014, 32, 1134-1141.	3.9	42
6	Optimisation of biohydrometallurgical batch reactor process for copper extraction and recovery from non-pulverized waste printed circuit boards. <i>Hydrometallurgy</i> , 2020, 191, 105170.	4.3	41
7	Bacterial Degradation of Azo Dye Containing Wastes. <i>Environmental Science and Engineering</i> , 2015, , 57-83.	0.2	36
8	Efficiency evaluation of commercial liquid biofertilizers for growth of <i>Cicer arietinum</i> (chickpea) in pot and field study. <i>Biocatalysis and Agricultural Biotechnology</i> , 2015, 4, 17-24.	3.1	33
9	Investigation of pesticide residues in water, sediments and fish samples from Tapi River, India as a case study and its forensic significance. <i>Environmental Forensics</i> , 2020, 21, 1-10.	2.6	33
10	Development of <i>Leptospirillum ferriphilum</i> dominated consortium for ferric iron regeneration and metal bioleaching under extreme stresses. <i>Bioresource Technology</i> , 2012, 118, 483-489.	9.6	28
11	Chemical and microbial leaching of base metals from obsolete cell-phone printed circuit boards. <i>Sustainable Environment Research</i> , 2018, 28, 333-339.	4.2	28
12	Pretreatment optimization of Sorghum pioneer biomass for bioethanol production and its scale-up. <i>Bioresource Technology</i> , 2016, 199, 142-147.	9.6	23
13	Kinetics and mechanisms of mercury biosorption by an exopolysaccharide producing marine isolate <i>Bacillus licheniformis</i> . <i>3 Biotech</i> , 2017, 7, 313.	2.2	19
14	Enhancement in Iron Oxidation and Multi-metal Extraction from Waste Television Printed Circuit Boards by Iron Oxidizing <i>Leptospirillum ferriphilum</i> Isolated from Coal Sample. <i>Waste and Biomass Valorization</i> , 2019, 10, 671-680.	3.4	19
15	Optimization of Chromium(VI) Detoxification by <i>Pseudomonas aeruginosa</i> and Its Application for Treatment of Industrial Waste and Contaminated Soil. <i>Bioremediation Journal</i> , 2014, 18, 128-135.	2.0	17
16	Biosurfactant production and engine oil degradation by marine halotolerant <i>Bacillus licheniformis</i> LRK1. <i>Biocatalysis and Agricultural Biotechnology</i> , 2020, 29, 101808.	3.1	17
17	The brighter side of e-waste—a rich secondary source of metal. <i>Environmental Science and Pollution Research</i> , 2021, 28, 10503-10518.	5.3	17
18	E-Waste: Metal Pollution Threat or Metal Resource?. <i>Journal of Advanced Research in Biotechnology</i> , 2016, 1, 1-14.	0.4	17

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19	Exopolysaccharides from marine bacteria: production, recovery and applications. <i>Environmental Sustainability</i> , 2020, 3, 139-154.	2.8	16
20	Copper remediation by <i>Eichhornia</i> spp. and sulphate-reducing bacteria. <i>Journal of Hazardous Materials</i> , 2010, 173, 231-235.	12.4	15
21	Enzyme mediated bacterial biotransformation and reduction in toxicity of 1:2 chromium complex AB193 and AB194 dyes. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2017, 77, 1-9.	5.3	15
22	Bioextraction Dynamics of Potassium from Feldspar by Heterotrophic Microorganisms Isolated from Ceramic and Rhizospheric Soil. <i>Geomicrobiology Journal</i> , 2018, 35, 127-131.	2.0	15
23	A novel biphasic leaching approach for the recovery of Cu and Zn from polymetallic bulk concentrate. <i>Bioresource Technology</i> , 2014, 157, 310-315.	9.6	14
24	Basketing nanopalladium into calix[4]pyrrole as an efficient catalyst for Mizoroki-Heck reaction. <i>Arabian Journal of Chemistry</i> , 2017, 10, 1125-1135.	4.9	14
25	Isolation and identification of a <i>Candida digboiensis</i> strain from an extreme acid mine drainage of the Lignite Mine, Gujarat. <i>Journal of Basic Microbiology</i> , 2009, 49, 564-571.	3.3	12
26	Isolation, identification, characterization and polymetallic concentrate leaching studies of tryptic soy- and peptone-resistant thermotolerant <i>Acidithiobacillus ferrooxidans</i> SRDSM2. <i>Bioresource Technology</i> , 2011, 102, 1602-1607.	9.6	11
27	Optimization of copper and zinc extractions from polymetallic bulk concentrate and ferric iron bioregeneration under metallic stress. <i>Hydrometallurgy</i> , 2012, 117-118, 18-23.	4.3	11
28	Application of novel consortium TSR for treatment of industrial dye manufacturing effluent with concurrent removal of ADMI, COD, heavy metals and toxicity. <i>Water Science and Technology</i> , 2015, 71, 1293-1300.	2.5	11
29	Mechanistic aspects of Au(III) sorption by <i>Aspergillus terreus</i> SRD49. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2017, 80, 46-51.	5.3	9
30	Decouple and compare the role of abiotic factors and developed iron and sulphur oxidizers for enhanced extraction of metals from television printed circuit boards. <i>Separation Science and Technology</i> , 2019, 54, 591-601.	2.5	9
31	Selection and development of efficient consortia for decolorization of metal complex dyes. <i>Toxicological and Environmental Chemistry</i> , 2017, 99, 252-264.	1.2	8
32	Utilization of mixed fruit waste for exopolysaccharide production by <i>Bacillus</i> species SRA4: medium formulation and its optimization. <i>3 Biotech</i> , 2020, 10, 550.	2.2	8
33	Comparison of Hydro- and Biohydrometallurgical Extraction of Metals from Waste Li-Ion Batteries of Cell Phone. <i>Journal of Sustainable Metallurgy</i> , 2019, 5, 250-261.	2.3	7
34	Coconut husk as a biosorbent for methylene blue removal and its kinetics study. <i>Advances in Environmental Research</i> , 2012, 1, 223-236.	0.3	7
35	Valorisation of fruit waste for enhanced exopolysaccharide production by <i>Xanthomonas campestris</i> using statistical optimisation of medium and process. <i>Food Bioscience</i> , 2022, 46, 101608.	4.4	6
36	Optimization and kinetics of copper cementation from bio-leachate generated during the waste printed circuit board (E-waste) processing. <i>Environmental Sustainability</i> , 2019, 2, 391-399.	2.8	5

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37	Multi-Metal Mining from Waste Cell Phone Printed Circuit Boards using Lixiviant Produced by a Consortium of Acidophilic Iron Oxidizers. <i>Environmental Engineering Science</i> , 2022, 39, 287-295.	1.6	4
38	Microbial Diversity by Substrate Utilization Profiles of Lignite Mines Samples of Gujarat, India. <i>Advanced Materials Research</i> , 0, 71-73, 101-104.	0.3	3
39	Characterization, kinetics and thermodynamics of Ag(I) sorption using novel sorbent: Dry wheatgrass. <i>International Journal of Phytoremediation</i> , 2016, 18, 1202-1208.	3.1	3
40	Characterization and Bio-prospecting of Fungi for Ag(I), Au(III) and Pd(II) sorption. <i>International Journal of Current Microbiology and Applied Sciences</i> , 2016, 5, 647-656.	0.1	3
41	Bacterial Decolourization, Degradation and Detoxification of Azo Dyes: An Eco-friendly Approach. , 2017, , 91-124.		2
42	Application of a downflow microaerophilic fixed film (DFMFF) reactor for the treatment of dye house effluents using a developed bacterial consortium. <i>Environmental Sustainability</i> , 2019, 2, 145-155.	2.8	2
43	Impact of Pulverization, Pretreatment and pH Regulation on Microbial Extraction of Metals from Waste Mobile Phone Printed Circuit Boards. <i>Applied Biochemistry and Microbiology</i> , 2021, 57, 675-682.	0.9	2
44	Comparative copper and zinc bioextraction at various stages of scale up using T. ferrooxidans consortium. <i>Process Metallurgy</i> , 1999, 9, 219-227.	0.1	1
45	Characterization and environmental impact of heterotrophic acidophilic thermotolerant iron oxidizer, isolated from Rajpardi lignite mine, India. <i>Journal of Biotechnology</i> , 2008, 136, S633.	3.8	1
46	Exploring the Multi-trait Plant Growth Promotion Capability of Commercial Liquid Biofertilizers Isolates. <i>International Journal of Life Sciences</i> , 2015, 9, 24-37.	0.2	1
47	Metal Bioremediation, Mechanisms, Kinetics and Role of Marine Bacteria in the Bioremediation Technology. , 2021, , 173-199.		1
48	Copper Biosorption and Bioprecipitation by <i>Eichhornia&/i> spp. and Sulphate Reducing Bacteria. <i>Advanced Materials Research</i> , 0, 71-73, 561-564.	0.3	0
49	Optimization of Cu, Hg and Cd removal by <i>Enterobacter cloacae</i> by ferric ammonium citrate precipitation. <i>Advances in Environmental Research</i> , 2014, 3, 283-292.	0.3	0
50	DECOLOURIZATION, DEGRADATION AND DETOXIFICATION OF DYE HOUSE EFFLUENTS BY A DEVELOPED BACTERIAL CONSORTIUM. <i>Journal of Experimental Biology and Agricultural Sciences</i> , 2019, 7, 211-221.	0.4	0