

Shaily Mahendra

List of Publications by Year in Descending Order

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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.

82

papers

7,813

citations

29

h-index

85

g-index

85

ext. papers

8,676

ext. citations

8.9

avg, IF

5.89

L-index

#	Paper	IF	Citations
82	Tracking antibiotic resistance through the environment near a biosolid spreading ground: Resistome changes, distribution, and metal(loid) co-selection.. <i>Science of the Total Environment</i> , 2022 , 823, 153570	10.2	1
81	Performance testing of mesh anodes for in situ electrochemical oxidation of PFAS. <i>Chemical Engineering Journal Advances</i> , 2022 , 9, 100205	3.6	1
80	A readily scalable, clinically demonstrated, antibiofouling zwitterionic surface treatment for implantable medical devices.. <i>Advanced Materials</i> , 2022 , e2200254	24	1
79	Decolorization and detoxification of synthetic dye compounds by laccase immobilized in vault nanoparticles.. <i>Bioresource Technology</i> , 2022 , 351, 127040	11	1
78	Immobilized fungal enzymes: Innovations and potential applications in biodegradation and biosynthesis.. <i>Biotechnology Advances</i> , 2022 , 57, 107936	17.8	3
77	A Readily Scalable, Clinically Demonstrated, Antibiofouling Zwitterionic Surface Treatment for Implantable Medical Devices (Adv. Mater. 20/2022). <i>Advanced Materials</i> , 2022 , 34, 2270152	24	
76	Enhanced removal of per- and polyfluoroalkyl substances in complex matrices by polyDADMAC-coated regenerable granular activated carbon. <i>Environmental Pollution</i> , 2021 , 294, 118603 ^{9.3}	9.3	2
75	Identification of novel 1,4-dioxane degraders and related genes from activated sludge by taxonomic and functional gene sequence analysis. <i>Journal of Hazardous Materials</i> , 2021 , 412, 125157	12.8	6
74	Profiling microbial community structures and functions in bioremediation strategies for treating 1,4-dioxane-contaminated groundwater. <i>Journal of Hazardous Materials</i> , 2021 , 408, 124457	12.8	8
73	Biodegradation mechanisms of sulfonamides by Phanerochaete chrysosporium - Luffa fiber system revealed at the transcriptome level. <i>Chemosphere</i> , 2021 , 266, 129194	8.4	9
72	Bioelectrochemical Treatment of 1,4-Dioxane in the Presence of Chlorinated Solvents: Design, Process, and Sustainability Considerations. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 3172-3182 ^{8.3}	8.3	3
71	Vault nanocapsule-mediated biomimetic silicification for efficient and robust immobilization of proteins in silica composites. <i>Chemical Engineering Journal</i> , 2021 , 418, 129406	14.7	3
70	Perfluoroalkyl acids on suspended particles: Significant transport pathways in surface runoff, surface waters, and subsurface soils. <i>Journal of Hazardous Materials</i> , 2021 , 417, 126159	12.8	11
69	Release of soil colloids during flow interruption increases the pore-water PFAS concentration in saturated soil. <i>Environmental Pollution</i> , 2021 , 286, 117297	9.3	10
68	Dry-wet and freeze-thaw cycles enhance PFOA leaching from subsurface soils. <i>Journal of Hazardous Materials Letters</i> , 2021 , 2, 100029	3.3	4
67	Vinyl chloride and 1,4-dioxane metabolism by Pseudonocardia dioxanivorans CB1190. <i>Journal of Hazardous Materials Letters</i> , 2021 , 2, 100039	3.3	0
66	A multipronged approach for systematic in vitro quantification of catheter-associated biofilms. <i>Journal of Hazardous Materials Letters</i> , 2021 , 2, 100032	3.3	2

65	Sonolytic destruction of Per- and polyfluoroalkyl substances in groundwater, aqueous Film-Forming Foams, and investigation derived waste. <i>Chemical Engineering Journal</i> , 2021 , 425, 131778	14.7	6
64	Vault packaged enzyme mediated degradation of amino-aromatic energetic compounds. <i>Chemosphere</i> , 2020 , 242, 125117	8.4	7
63	Cometabolic biotransformation of 1,4-dioxane in mixtures with hexavalent chromium using attached and planktonic bacteria. <i>Science of the Total Environment</i> , 2020 , 706, 135734	10.2	9
62	How permeable could a reverse osmosis membrane be if it was specifically developed for uncharged organic solute rejection?. <i>AWWA Water Science</i> , 2020 , 2, e1189	1.6	1
61	Monitoring, assessment, and prediction of microbial shifts in coupled catalysis and biodegradation of 1,4-dioxane and co-contaminants. <i>Water Research</i> , 2020 , 173, 115540	12.5	25
60	Biochar increases nitrate removal capacity of woodchip biofilters during high-intensity rainfall. <i>Water Research</i> , 2019 , 165, 115008	12.5	20
59	Nanomaterial-Supported Enzymes for Water Purification and Monitoring in Point-of-Use Water Supply Systems. <i>Accounts of Chemical Research</i> , 2019 , 52, 876-885	24.3	27
58	Removal of 1,4-dioxane by titanium silicalite-1: Separation mechanisms and bioregeneration of sorption sites. <i>Chemical Engineering Journal</i> , 2019 , 371, 193-202	14.7	11
57	Bioremediation of 1,4-Dioxane: Successful Demonstration of In Situ and Ex Situ Approaches. <i>Ground Water Monitoring and Remediation</i> , 2019 , 39, 15-24	1.4	2
56	Mechanisms of 1,4-Dioxane Biodegradation and Adsorption by Bio-Zeolite in the Presence of Chlorinated Solvents: Experimental and Molecular Dynamics Simulation Studies. <i>Environmental Science & Technology</i> , 2019 , 53, 14538-14547	10.3	13
55	A Vault-Encapsulated Enzyme Approach for Efficient Degradation and Detoxification of Bisphenol A and Its Analogues. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 5808-5817	8.3	22
54	Response and recovery of microbial communities subjected to oxidative and biological treatments of 1,4-dioxane and co-contaminants. <i>Water Research</i> , 2019 , 149, 74-85	12.5	27
53	A Mixed Microbial Community for the Biodegradation of Chlorinated Ethenes and 1,4-Dioxane. <i>Environmental Science and Technology Letters</i> , 2019 , 6, 49-54	11	17
52	Fungal biotransformation of 6:2 fluorotelomer alcohol. <i>Remediation</i> , 2018 , 28, 59-70	1.8	5
51	Development of bioreactors for comparative study of natural attenuation, biostimulation, and bioaugmentation of petroleum-hydrocarbon contaminated soil. <i>Journal of Hazardous Materials</i> , 2018 , 342, 270-278	12.8	79
50	Differential Sensitivity of Wetland-Derived Nitrogen Cycling Microorganisms to Copper Nanoparticles. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 11642-11652	8.3	5
49	Encapsulation of Exogenous Proteins in Vault Nanoparticles. <i>Methods in Molecular Biology</i> , 2018 , 1798, 25-37	1.4	3
48	Abiotic and bioaugmented granular activated carbon for the treatment of 1,4-dioxane-contaminated water. <i>Environmental Pollution</i> , 2018 , 240, 916-924	9.3	26

47	Differential Sensitivity of Wetland-Derived Nitrogen Cycling Microorganisms to Copper Nanoparticles. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 11642-11652	8.3	
46	Microbial responses to combined oxidation and catalysis treatment of 1,4-dioxane and co-contaminants in groundwater and soil. <i>Frontiers of Environmental Science and Engineering</i> , 2018 , 12, 1	5.8	8
45	Co-contaminant effects on 1,4-dioxane biodegradation in packed soil column flow-through systems. <i>Environmental Pollution</i> , 2018 , 243, 573-581	9.3	19
44	Synthesis and assembly of human vault particles in yeast. <i>Biotechnology and Bioengineering</i> , 2018 , 115, 2941-2950	4.9	10
43	Synergistic Treatment of Mixed 1,4-Dioxane and Chlorinated Solvent Contaminations by Coupling Electrochemical Oxidation with Aerobic Biodegradation. <i>Environmental Science & Technology</i> , 2017 , 51, 12619-12629	10.3	24
42	Advances in bioremediation of 1,4-dioxane-contaminated waters. <i>Journal of Environmental Management</i> , 2017 , 204, 765-774	7.9	63
41	Copper status of exposed microorganisms influences susceptibility to metallic nanoparticles. <i>Environmental Toxicology and Chemistry</i> , 2016 , 35, 1148-58	3.8	7
40	Biodegradation Kinetics of 1,4-Dioxane in Chlorinated Solvent Mixtures. <i>Environmental Science & Technology</i> , 2016 , 50, 9599-607	10.3	54
39	Antibiotic Resistance in Airborne Bacteria Near Conventional and Organic Beef Cattle Farms in California, USA. <i>Water, Air, and Soil Pollution</i> , 2016 , 227, 1	2.6	17
38	Degradation and Removal Methods for Perfluoroalkyl and Polyfluoroalkyl Substances in Water. <i>Environmental Engineering Science</i> , 2016 , 33, 615-649	2	198
37	A Multiple Lines of Evidence Framework to Evaluate Intrinsic Biodegradation of 1,4-Dioxane. <i>Remediation</i> , 2016 , 27, 93-114	1.8	30
36	Evidence of 1,4-dioxane attenuation at groundwater sites contaminated with chlorinated solvents and 1,4-dioxane. <i>Environmental Science & Technology</i> , 2015 , 49, 6510-8	10.3	76
35	Vault Nanoparticles Packaged with Enzymes as an Efficient Pollutant Biodegradation Technology. <i>ACS Nano</i> , 2015 , 9, 10931-40	16.7	36
34	Planktonic and biofilm-grown nitrogen-cycling bacteria exhibit different susceptibilities to copper nanoparticles. <i>Environmental Toxicology and Chemistry</i> , 2015 , 34, 887-97	3.8	29
33	Identification of biomarker genes to predict biodegradation of 1,4-dioxane. <i>Applied and Environmental Microbiology</i> , 2014 , 80, 3209-18	4.8	54
32	Effects of water chemistry on structure and performance of polyamide composite membranes. <i>Journal of Membrane Science</i> , 2014 , 452, 415-425	9.6	34
31	A Multisite Survey To Identify the Scale of the 1,4-Dioxane Problem at Contaminated Groundwater Sites. <i>Environmental Science and Technology Letters</i> , 2014 , 1, 254-258	11	88
30	Transition metals and organic ligands influence biodegradation of 1,4-dioxane. <i>Applied Biochemistry and Biotechnology</i> , 2014 , 173, 291-306	3.2	21

29	Biotransformation of 6:2 fluorotelomer alcohol (6:2 FTOH) by a wood-rotting fungus. <i>Environmental Science & Technology</i> , 2014 , 48, 4012-20	10.3	35
28	Degradation of phenol by synergistic chlorine-enhanced photo-assisted electrochemical oxidation. <i>Chemical Engineering Journal</i> , 2014 , 240, 235-243	14.7	73
27	Nanotechnology-Enabled Water Disinfection and Microbial Control: Merits and Limitations 2014 , 319-327		2
26	The impact of chlorinated solvent co-contaminants on the biodegradation kinetics of 1,4-dioxane. <i>Chemosphere</i> , 2013 , 91, 88-92	8.4	56
25	Safety issues relating to nanomaterials for construction applications 2013 , 127-158		2
24	Novel Applications of Molecular Biological and Microscopic Tools in Environmental Engineering. <i>Water Environment Research</i> , 2013 , 85, 917-950	2.8	5
23	Characterization of sulfur in raw and anaerobically digested municipal wastewater treatment sludges. <i>Water Environment Research</i> , 2013 , 85, 124-32	2.8	8
22	Nanomaterials in Civil Engineering 2013 , 1039-1062		2
21	Characterizing the intrinsic bioremediation potential of 1,4-dioxane and trichloroethene using innovative environmental diagnostic tools. <i>Journal of Environmental Monitoring</i> , 2012 , 14, 2317-26		40
20	Genome-wide assessment in <i>Escherichia coli</i> reveals time-dependent nanotoxicity paradigms. <i>ACS Nano</i> , 2012 , 6, 9402-15	16.7	25
19	Advancements in Molecular Techniques and Applications in Environmental Engineering. <i>Water Environment Research</i> , 2012 , 84, 814-844	2.8	2
18	Stable Carbon Isotope Fractionation During 1,4-Dioxane Biodegradation. <i>Proceedings of the Water Environment Federation</i> , 2011 , 2011, 111-116		1
17	Molecular Biological Methods in Environmental Engineering. <i>Water Environment Research</i> , 2011 , 83, 927-935		5
16	Genome sequence of the 1,4-dioxane-degrading <i>Pseudonocardia dioxanivorans</i> strain CB1190. <i>Journal of Bacteriology</i> , 2011 , 193, 4549-50	3.5	51
15	1,4-Dioxane biodegradation at low temperatures in Arctic groundwater samples. <i>Water Research</i> , 2010 , 44, 2894-900	12.5	58
14	Nanomaterials in the construction industry: a review of their applications and environmental health and safety considerations. <i>ACS Nano</i> , 2010 , 4, 3580-90	16.7	521
13	Developmental phytotoxicity of metal oxide nanoparticles to <i>Arabidopsis thaliana</i> . <i>Environmental Toxicology and Chemistry</i> , 2010 , 29, 669-75	3.8	387
12	Effects of nano-scale zero-valent iron particles on a mixed culture dechlorinating trichloroethylene. <i>Bioresource Technology</i> , 2010 , 101, 1141-6	11	206

11	In situ Synthesis of Metal Nanoparticle Embedded Free Standing Multifunctional PDMS Films. <i>Macromolecular Rapid Communications</i> , 2009 , 30, 1116-22	4.8	117
10	Polysulfone ultrafiltration membranes impregnated with silver nanoparticles show improved biofouling resistance and virus removal. <i>Water Research</i> , 2009 , 43, 715-23	12.5	610
9	Nanotechnology-Enabled Water Disinfection and Microbial Control: Merits and Limitations 2009 , 157-166		7
8	Potential Environmental and Human Health Impacts of Nanomaterials Used in the Construction Industry 2009 , 1-14		5
7	Antimicrobial nanomaterials for water disinfection and microbial control: potential applications and implications. <i>Water Research</i> , 2008 , 42, 4591-602	12.5	1773
6	Quantum dot weathering results in microbial toxicity. <i>Environmental Science & Technology</i> , 2008 , 42, 9424-30	10.3	173
5	Nanomaterials in the environment: behavior, fate, bioavailability, and effects. <i>Environmental Toxicology and Chemistry</i> , 2008 , 27, 1825-51	3.8	2098
4	Identification of the intermediates of in vivo oxidation of 1,4-dioxane by monooxygenase-containing bacteria. <i>Environmental Science & Technology</i> , 2007 , 41, 7330-6	10.3	86
3	Kinetics of 1,4-dioxane biodegradation by monooxygenase-expressing bacteria. <i>Environmental Science & Technology</i> , 2006 , 40, 5435-42	10.3	144
2	<i>Pseudonocardia dioxanivorans</i> sp. nov., a novel actinomycete that grows on 1,4-dioxane. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2005 , 55, 593-598	2.2	112
1	Stable carbon isotope fractionation during aerobic biodegradation of chlorinated ethenes. <i>Environmental Science & Technology</i> , 2004 , 38, 3126-30	10.3	61