

# Shaily Mahendra

## 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.

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	Nanomaterials in the environment: behavior, fate, bioavailability, and effects. <i>Environmental Toxicology and Chemistry</i> , <b>2008</b> , 27, 1825-51	3.8	2098
81	Antimicrobial nanomaterials for water disinfection and microbial control: potential applications and implications. <i>Water Research</i> , <b>2008</b> , 42, 4591-602	12.5	1773
80	Polysulfone ultrafiltration membranes impregnated with silver nanoparticles show improved biofouling resistance and virus removal. <i>Water Research</i> , <b>2009</b> , 43, 715-23	12.5	610
79	Nanomaterials in the construction industry: a review of their applications and environmental health and safety considerations. <i>ACS Nano</i> , <b>2010</b> , 4, 3580-90	16.7	521
78	Developmental phytotoxicity of metal oxide nanoparticles to <i>Arabidopsis thaliana</i> . <i>Environmental Toxicology and Chemistry</i> , <b>2010</b> , 29, 669-75	3.8	387
77	Effects of nano-scale zero-valent iron particles on a mixed culture dechlorinating trichloroethylene. <i>Bioresource Technology</i> , <b>2010</b> , 101, 1141-6	11	206
76	Degradation and Removal Methods for Perfluoroalkyl and Polyfluoroalkyl Substances in Water. <i>Environmental Engineering Science</i> , <b>2016</b> , 33, 615-649	2	198
75	Quantum dot weathering results in microbial toxicity. <i>Environmental Science &amp; Technology</i> , <b>2008</b> , 42, 9424-30	10.3	173
74	Kinetics of 1,4-dioxane biodegradation by monooxygenase-expressing bacteria. <i>Environmental Science &amp; Technology</i> , <b>2006</b> , 40, 5435-42	10.3	144
73	In situ Synthesis of Metal Nanoparticle Embedded Free Standing Multifunctional PDMS Films. <i>Macromolecular Rapid Communications</i> , <b>2009</b> , 30, 1116-22	4.8	117
72	<i>Pseudonocardia dioxanivorans</i> sp. nov., a novel actinomycete that grows on 1,4-dioxane. <i>International Journal of Systematic and Evolutionary Microbiology</i> , <b>2005</b> , 55, 593-598	2.2	112
71	A Multisite Survey To Identify the Scale of the 1,4-Dioxane Problem at Contaminated Groundwater Sites. <i>Environmental Science and Technology Letters</i> , <b>2014</b> , 1, 254-258	11	88
70	Identification of the intermediates of in vivo oxidation of 1,4-dioxane by monooxygenase-containing bacteria. <i>Environmental Science &amp; Technology</i> , <b>2007</b> , 41, 7330-6	10.3	86
69	Development of bioreactors for comparative study of natural attenuation, biostimulation, and bioaugmentation of petroleum-hydrocarbon contaminated soil. <i>Journal of Hazardous Materials</i> , <b>2018</b> , 342, 270-278	12.8	79
68	Evidence of 1,4-dioxane attenuation at groundwater sites contaminated with chlorinated solvents and 1,4-dioxane. <i>Environmental Science &amp; Technology</i> , <b>2015</b> , 49, 6510-8	10.3	76
67	Degradation of phenol by synergistic chlorine-enhanced photo-assisted electrochemical oxidation. <i>Chemical Engineering Journal</i> , <b>2014</b> , 240, 235-243	14.7	73
66	Advances in bioremediation of 1,4-dioxane-contaminated waters. <i>Journal of Environmental Management</i> , <b>2017</b> , 204, 765-774	7.9	63

65	Stable carbon isotope fractionation during aerobic biodegradation of chlorinated ethenes. <i>Environmental Science &amp; Technology</i> , <b>2004</b> , 38, 3126-30	10.3	61
64	1,4-Dioxane biodegradation at low temperatures in Arctic groundwater samples. <i>Water Research</i> , <b>2010</b> , 44, 2894-900	12.5	58
63	The impact of chlorinated solvent co-contaminants on the biodegradation kinetics of 1,4-dioxane. <i>Chemosphere</i> , <b>2013</b> , 91, 88-92	8.4	56
62	Biodegradation Kinetics of 1,4-Dioxane in Chlorinated Solvent Mixtures. <i>Environmental Science &amp; Technology</i> , <b>2016</b> , 50, 9599-607	10.3	54
61	Identification of biomarker genes to predict biodegradation of 1,4-dioxane. <i>Applied and Environmental Microbiology</i> , <b>2014</b> , 80, 3209-18	4.8	54
60	Genome sequence of the 1,4-dioxane-degrading <i>Pseudonocardia dioxanivorans</i> strain CB1190. <i>Journal of Bacteriology</i> , <b>2011</b> , 193, 4549-50	3.5	51
59	Characterizing the intrinsic bioremediation potential of 1,4-dioxane and trichloroethene using innovative environmental diagnostic tools. <i>Journal of Environmental Monitoring</i> , <b>2012</b> , 14, 2317-26		40
58	Vault Nanoparticles Packaged with Enzymes as an Efficient Pollutant Biodegradation Technology. <i>ACS Nano</i> , <b>2015</b> , 9, 10931-40	16.7	36
57	Biotransformation of 6:2 fluorotelomer alcohol (6:2 FTOH) by a wood-rotting fungus. <i>Environmental Science &amp; Technology</i> , <b>2014</b> , 48, 4012-20	10.3	35
56	Effects of water chemistry on structure and performance of polyamide composite membranes. <i>Journal of Membrane Science</i> , <b>2014</b> , 452, 415-425	9.6	34
55	A Multiple Lines of Evidence Framework to Evaluate Intrinsic Biodegradation of 1,4-Dioxane. <i>Remediation</i> , <b>2016</b> , 27, 93-114	1.8	30
54	Planktonic and biofilm-grown nitrogen-cycling bacteria exhibit different susceptibilities to copper nanoparticles. <i>Environmental Toxicology and Chemistry</i> , <b>2015</b> , 34, 887-97	3.8	29
53	Nanomaterial-Supported Enzymes for Water Purification and Monitoring in Point-of-Use Water Supply Systems. <i>Accounts of Chemical Research</i> , <b>2019</b> , 52, 876-885	24.3	27
52	Response and recovery of microbial communities subjected to oxidative and biological treatments of 1,4-dioxane and co-contaminants. <i>Water Research</i> , <b>2019</b> , 149, 74-85	12.5	27
51	Abiotic and bioaugmented granular activated carbon for the treatment of 1,4-dioxane-contaminated water. <i>Environmental Pollution</i> , <b>2018</b> , 240, 916-924	9.3	26
50	Genome-wide assessment in <i>Escherichia coli</i> reveals time-dependent nanotoxicity paradigms. <i>ACS Nano</i> , <b>2012</b> , 6, 9402-15	16.7	25
49	Monitoring, assessment, and prediction of microbial shifts in coupled catalysis and biodegradation of 1,4-dioxane and co-contaminants. <i>Water Research</i> , <b>2020</b> , 173, 115540	12.5	25
48	Synergistic Treatment of Mixed 1,4-Dioxane and Chlorinated Solvent Contaminations by Coupling Electrochemical Oxidation with Aerobic Biodegradation. <i>Environmental Science &amp; Technology</i> , <b>2017</b> , 51, 12619-12629	10.3	24

47	A Vault-Encapsulated Enzyme Approach for Efficient Degradation and Detoxification of Bisphenol A and Its Analogues. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 5808-5817	8.3	22
46	Transition metals and organic ligands influence biodegradation of 1,4-dioxane. <i>Applied Biochemistry and Biotechnology</i> , <b>2014</b> , 173, 291-306	3.2	21
45	Biochar increases nitrate removal capacity of woodchip biofilters during high-intensity rainfall. <i>Water Research</i> , <b>2019</b> , 165, 115008	12.5	20
44	Co-contaminant effects on 1,4-dioxane biodegradation in packed soil column flow-through systems. <i>Environmental Pollution</i> , <b>2018</b> , 243, 573-581	9.3	19
43	Antibiotic Resistance in Airborne Bacteria Near Conventional and Organic Beef Cattle Farms in California, USA. <i>Water, Air, and Soil Pollution</i> , <b>2016</b> , 227, 1	2.6	17
42	A Mixed Microbial Community for the Biodegradation of Chlorinated Ethenes and 1,4-Dioxane. <i>Environmental Science and Technology Letters</i> , <b>2019</b> , 6, 49-54	11	17
41	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 &amp; Technology</i> , <b>2019</b> , 53, 14538-14547	10.3	13
40	Removal of 1,4-dioxane by titanium silicalite-1: Separation mechanisms and bioregeneration of sorption sites. <i>Chemical Engineering Journal</i> , <b>2019</b> , 371, 193-202	14.7	11
39	Perfluoroalkyl acids on suspended particles: Significant transport pathways in surface runoff, surface waters, and subsurface soils. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 417, 126159	12.8	11
38	Synthesis and assembly of human vault particles in yeast. <i>Biotechnology and Bioengineering</i> , <b>2018</b> , 115, 2941-2950	4.9	10
37	Release of soil colloids during flow interruption increases the pore-water PFAS concentration in saturated soil. <i>Environmental Pollution</i> , <b>2021</b> , 286, 117297	9.3	10
36	Cometabolic biotransformation of 1,4-dioxane in mixtures with hexavalent chromium using attached and planktonic bacteria. <i>Science of the Total Environment</i> , <b>2020</b> , 706, 135734	10.2	9
35	Biodegradation mechanisms of sulfonamides by <i>Phanerochaete chrysosporium</i> - Luffa fiber system revealed at the transcriptome level. <i>Chemosphere</i> , <b>2021</b> , 266, 129194	8.4	9
34	Characterization of sulfur in raw and anaerobically digested municipal wastewater treatment sludges. <i>Water Environment Research</i> , <b>2013</b> , 85, 124-32	2.8	8
33	Profiling microbial community structures and functions in bioremediation strategies for treating 1,4-dioxane-contaminated groundwater. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 408, 124457	12.8	8
32	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> , <b>2018</b> , 12, 1	5.8	8
31	Copper status of exposed microorganisms influences susceptibility to metallic nanoparticles. <i>Environmental Toxicology and Chemistry</i> , <b>2016</b> , 35, 1148-58	3.8	7
30	Nanotechnology-Enabled Water Disinfection and Microbial Control: Merits and Limitations <b>2009</b> , 157-166		7

29	Vault packaged enzyme mediated degradation of amino-aromatic energetic compounds. <i>Chemosphere</i> , <b>2020</b> , 242, 125117	8.4	7
28	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> , <b>2021</b> , 412, 125157	12.8	6
27	Sonolytic destruction of Per- and polyfluoroalkyl substances in groundwater, aqueous Film-Forming Foams, and investigation derived waste. <i>Chemical Engineering Journal</i> , <b>2021</b> , 425, 131778	14.7	6
26	Fungal biotransformation of 6:2 fluorotelomer alcohol. <i>Remediation</i> , <b>2018</b> , 28, 59-70	1.8	5
25	Differential Sensitivity of Wetland-Derived Nitrogen Cycling Microorganisms to Copper Nanoparticles. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 11642-11652	8.3	5
24	Novel Applications of Molecular Biological and Microscopic Tools in Environmental Engineering. <i>Water Environment Research</i> , <b>2013</b> , 85, 917-950	2.8	5
23	Molecular Biological Methods in Environmental Engineering. <i>Water Environment Research</i> , <b>2011</b> , 83, 927-955	2.8	5
22	Potential Environmental and Human Health Impacts of Nanomaterials Used in the Construction Industry <b>2009</b> , 1-14		5
21	Dry-wet and freeze-thaw cycles enhance PFOA leaching from subsurface soils. <i>Journal of Hazardous Materials Letters</i> , <b>2021</b> , 2, 100029	3.3	4
20	Encapsulation of Exogenous Proteins in Vault Nanoparticles. <i>Methods in Molecular Biology</i> , <b>2018</b> , 1798, 25-37	1.4	3
19	Bioelectrochemical Treatment of 1,4-Dioxane in the Presence of Chlorinated Solvents: Design, Process, and Sustainability Considerations. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2021</b> , 9, 3172-3182	8.3	3
18	Vault nanocapsule-mediated biomimetic silicification for efficient and robust immobilization of proteins in silica composites. <i>Chemical Engineering Journal</i> , <b>2021</b> , 418, 129406	14.7	3
17	Immobilized fungal enzymes: Innovations and potential applications in biodegradation and biosynthesis.. <i>Biotechnology Advances</i> , <b>2022</b> , 57, 107936	17.8	3
16	Bioremediation of 1,4-Dioxane: Successful Demonstration of In Situ and Ex Situ Approaches. <i>Ground Water Monitoring and Remediation</i> , <b>2019</b> , 39, 15-24	1.4	2
15	Safety issues relating to nanomaterials for construction applications <b>2013</b> , 127-158		2
14	Nanotechnology-Enabled Water Disinfection and Microbial Control: Merits and Limitations <b>2014</b> , 319-327		2
13	Advancements in Molecular Techniques and Applications in Environmental Engineering. <i>Water Environment Research</i> , <b>2012</b> , 84, 814-844	2.8	2
12	Enhanced removal of per- and polyfluoroalkyl substances in complex matrices by polyDADMAC-coated regenerable granular activated carbon. <i>Environmental Pollution</i> , <b>2021</b> , 294, 118603	9.3	2

11	Nanomaterials in Civil Engineering <b>2013</b> , 1039-1062		2
10	A multipronged approach for systematic in vitro quantification of catheter-associated biofilms. <i>Journal of Hazardous Materials Letters</i> , <b>2021</b> , 2, 100032	3.3	2
9	Stable Carbon Isotope Fractionation During 1,4-Dioxane Biodegradation. <i>Proceedings of the Water Environment Federation</i> , <b>2011</b> , 2011, 111-116		1
8	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> , <b>2022</b> , 823, 153570	10.2	1
7	Performance testing of mesh anodes for in situ electrochemical oxidation of PFAS. <i>Chemical Engineering Journal Advances</i> , <b>2022</b> , 9, 100205	3.6	1
6	How permeable could a reverse osmosis membrane be if it was specifically developed for uncharged organic solute rejection?. <i>AWWA Water Science</i> , <b>2020</b> , 2, e1189	1.6	1
5	A readily scalable, clinically demonstrated, antibiofouling zwitterionic surface treatment for implantable medical devices.. <i>Advanced Materials</i> , <b>2022</b> , e2200254	24	1
4	Decolorization and detoxification of synthetic dye compounds by laccase immobilized in vault nanoparticles.. <i>Bioresource Technology</i> , <b>2022</b> , 351, 127040	11	1
3	Vinyl chloride and 1,4-dioxane metabolism by <i>Pseudonocardia dioxanivorans</i> CB1190. <i>Journal of Hazardous Materials Letters</i> , <b>2021</b> , 2, 100039	3.3	0
2	Differential Sensitivity of Wetland-Derived Nitrogen Cycling Microorganisms to Copper Nanoparticles. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 11642-11652	8.3	
1	A Readily Scalable, Clinically Demonstrated, Antibiofouling Zwitterionic Surface Treatment for Implantable Medical Devices (Adv. Mater. 20/2022). <i>Advanced Materials</i> , <b>2022</b> , 34, 2270152	24	