

Shaily Mahendra

List of Publications by Year in descending order

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82
papers

9,564
citations

126708

33
h-index

62479

80
g-index

85
all docs

85
docs citations

85
times ranked

12338
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanomaterials in the environment: Behavior, fate, bioavailability, and effects. <i>Environmental Toxicology and Chemistry</i> , 2008, 27, 1825-1851.	2.2	2,370
2	Antimicrobial nanomaterials for water disinfection and microbial control: Potential applications and implications. <i>Water Research</i> , 2008, 42, 4591-4602.	5.3	2,019
3	Polysulfone ultrafiltration membranes impregnated with silver nanoparticles show improved biofouling resistance and virus removal. <i>Water Research</i> , 2009, 43, 715-723.	5.3	718
4	Nanomaterials in the Construction Industry: A Review of Their Applications and Environmental Health and Safety Considerations. <i>ACS Nano</i> , 2010, 4, 3580-3590.	7.3	616
5	Developmental phytotoxicity of metal oxide nanoparticles to <i>Arabidopsis thaliana</i> . <i>Environmental Toxicology and Chemistry</i> , 2010, 29, 669-675.	2.2	474
6	Degradation and Removal Methods for Perfluoroalkyl and Polyfluoroalkyl Substances in Water. <i>Environmental Engineering Science</i> , 2016, 33, 615-649.	0.8	254
7	Effects of nano-scale zero-valent iron particles on a mixed culture dechlorinating trichloroethylene. <i>Bioresource Technology</i> , 2010, 101, 1141-1146.	4.8	227
8	Kinetics of 1,4-Dioxane Biodegradation by Monooxygenase-Expressing Bacteria. <i>Environmental Science & Technology</i> , 2006, 40, 5435-5442.	4.6	189
9	Quantum Dot Weathering Results in Microbial Toxicity. <i>Environmental Science & Technology</i> , 2008, 42, 9424-9430.	4.6	187
10	In situ Synthesis of Metal Nanoparticle Embedded Free Standing Multifunctional PDMS Films. <i>Macromolecular Rapid Communications</i> , 2009, 30, 1116-1122.	2.0	143
11	<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.	0.8	133
12	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.	3.9	124
13	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.	6.5	110
14	Identification of the Intermediates of in Vivo Oxidation of 1,4-Dioxane by Monooxygenase-Containing Bacteria. <i>Environmental Science & Technology</i> , 2007, 41, 7330-7336.	4.6	106
15	Evidence of 1,4-Dioxane Attenuation at Groundwater Sites Contaminated with Chlorinated Solvents and 1,4-Dioxane. <i>Environmental Science & Technology</i> , 2015, 49, 6510-6518.	4.6	104
16	Degradation of phenol by synergistic chlorine-enhanced photo-assisted electrochemical oxidation. <i>Chemical Engineering Journal</i> , 2014, 240, 235-243.	6.6	89
17	Advances in bioremediation of 1,4-dioxane-contaminated waters. <i>Journal of Environmental Management</i> , 2017, 204, 765-774.	3.8	89
18	Biodegradation Kinetics of 1,4-Dioxane in Chlorinated Solvent Mixtures. <i>Environmental Science & Technology</i> , 2016, 50, 9599-9607.	4.6	76

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19	The impact of chlorinated solvent co-contaminants on the biodegradation kinetics of 1,4-dioxane. <i>Chemosphere</i> , 2013, 91, 88-92.	4.2	73
20	1,4-Dioxane biodegradation at low temperatures in Arctic groundwater samples. <i>Water Research</i> , 2010, 44, 2894-2900.	5.3	69
21	Identification of Biomarker Genes To Predict Biodegradation of 1,4-Dioxane. <i>Applied and Environmental Microbiology</i> , 2014, 80, 3209-3218.	1.4	69
22	Stable Carbon Isotope Fractionation during Aerobic Biodegradation of Chlorinated Ethenes. <i>Environmental Science & Technology</i> , 2004, 38, 3126-3130.	4.6	65
23	Biotransformation of 6:2 Fluorotelomer Alcohol (6:2 FTOH) by a Wood-Rotting Fungus. <i>Environmental Science & Technology</i> , 2014, 48, 4012-4020.	4.6	57
24	Genome Sequence of the 1,4-Dioxane-Degrading <i>Pseudonocardia dioxanivorans</i> Strain CB1190. <i>Journal of Bacteriology</i> , 2011, 193, 4549-4550.	1.0	56
25	Vault Nanoparticles Packaged with Enzymes as an Efficient Pollutant Biodegradation Technology. <i>ACS Nano</i> , 2015, 9, 10931-10940.	7.3	49
26	Effects of water chemistry on structure and performance of polyamide composite membranes. <i>Journal of Membrane Science</i> , 2014, 452, 415-425.	4.1	47
27	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.	2.1	44
28	Biochar increases nitrate removal capacity of woodchip biofilters during high-intensity rainfall. <i>Water Research</i> , 2019, 165, 115008.	5.3	42
29	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.	7.6	42
30	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.	5.3	41
31	Abiotic and bioaugmented granular activated carbon for the treatment of 1,4-dioxane-contaminated water. <i>Environmental Pollution</i> , 2018, 240, 916-924.	3.7	38
32	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.	5.3	37
33	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.	6.5	37
34	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.	4.6	36
35	Planktonic and biofilm-grown nitrogen-cycling bacteria exhibit different susceptibilities to copper nanoparticles. <i>Environmental Toxicology and Chemistry</i> , 2015, 34, 887-897.	2.2	35
36	A Multiple Lines of Evidence Framework to Evaluate Intrinsic Biodegradation of 1,4-Dioxane. <i>Remediation</i> , 2016, 27, 93-114.	1.1	34

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37	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.	3.9	34
38	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.	1.1	33
39	Genome-Wide Assessment in <i>Escherichia coli</i> Reveals Time-Dependent Nanotoxicity Paradigms. <i>ACS Nano</i> , 2012, 6, 9402-9415.	7.3	31
40	Release of soil colloids during flow interruption increases the pore-water PFAS concentration in saturated soil. <i>Environmental Pollution</i> , 2021, 286, 117297.	3.7	30
41	Co-contaminant effects on 1,4-dioxane biodegradation in packed soil column flow-through systems. <i>Environmental Pollution</i> , 2018, 243, 573-581.	3.7	29
42	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.	3.2	28
43	Transition Metals and Organic Ligands Influence Biodegradation of 1,4-Dioxane. <i>Applied Biochemistry and Biotechnology</i> , 2014, 173, 291-306.	1.4	24
44	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.	4.6	24
45	Enhanced removal of per- and polyfluoroalkyl substances in complex matrices by polyDADMAC-coated regenerable granular activated carbon. <i>Environmental Pollution</i> , 2022, 294, 118603.	3.7	24
46	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.	6.6	23
47	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.	6.6	23
48	Immobilized fungal enzymes: Innovations and potential applications in biodegradation and biosynthesis. <i>Biotechnology Advances</i> , 2022, 57, 107936.	6.0	23
49	Biodegradation mechanisms of sulfonamides by <i>Phanerochaete chrysosporium</i> "Luffa fiber system revealed at the transcriptome level. <i>Chemosphere</i> , 2021, 266, 129194.	4.2	22
50	Decolorization and detoxification of synthetic dye compounds by laccase immobilized in vault nanoparticles. <i>Bioresource Technology</i> , 2022, 351, 127040.	4.8	22
51	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.	6.5	21
52	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.	6.5	21
53	Performance testing of mesh anodes for in situ electrochemical oxidation of PFAS. <i>Chemical Engineering Journal Advances</i> , 2022, 9, 100205.	2.4	19
54	A Readily Scalable, Clinically Demonstrated, Antibiofouling Zwitterionic Surface Treatment for Implantable Medical Devices. <i>Advanced Materials</i> , 2022, 34, e2200254.	11.1	18

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55	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.	3.9	17
56	Fungal biotransformation of 6:2 fluorotelomer alcohol. <i>Remediation</i> , 2018, 28, 59-70.	1.1	16
57	Characterization of Sulfur in Raw and Anaerobically Digested Municipal Wastewater Treatment Sludges. <i>Water Environment Research</i> , 2013, 85, 124-132.	1.3	15
58	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.	3.2	15
59	Synthesis and assembly of human vault particles in yeast. <i>Biotechnology and Bioengineering</i> , 2018, 115, 2941-2950.	1.7	14
60	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.	3.3	12
61	Vault packaged enzyme mediated degradation of amino-aromatic energetic compounds. <i>Chemosphere</i> , 2020, 242, 125117.	4.2	11
62	Differential Sensitivity of Wetland-Derived Nitrogen Cycling Microorganisms to Copper Nanoparticles. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 11642-11652.	3.2	10
63	Vault nanocapsule-mediated biomimetic silicification for efficient and robust immobilization of proteins in silica composites. <i>Chemical Engineering Journal</i> , 2021, 418, 129406.	6.6	9
64	Dry-wet and freeze-thaw cycles enhance PFOA leaching from subsurface soils. <i>Journal of Hazardous Materials Letters</i> , 2021, 2, 100029.	2.0	9
65	Nanotechnology-Enabled Water Disinfection and Microbial Control: Merits and Limitations. , 2009, , 157-166.		8
66	Potential Environmental and Human Health Impacts of Nanomaterials Used in the Construction Industry. , 2009, , 1-14.		8
67	Molecular Biological Methods in Environmental Engineering. <i>Water Environment Research</i> , 2011, 83, 927-955.	1.3	7
68	Copper status of exposed microorganisms influences susceptibility to metallic nanoparticles. <i>Environmental Toxicology and Chemistry</i> , 2016, 35, 1148-1158.	2.2	7
69	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.	0.6	7
70	Novel Applications of Molecular Biological and Microscopic Tools in Environmental Engineering. <i>Water Environment Research</i> , 2013, 85, 917-950.	1.3	6
71	Encapsulation of Exogenous Proteins in Vault Nanoparticles. <i>Methods in Molecular Biology</i> , 2018, 1798, 25-37.	0.4	4
72	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.	1.0	4

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73	Vinyl chloride and 1,4-dioxane metabolism by Pseudonocardia dioxanivorans CB1190. Journal of Hazardous Materials Letters, 2021, 2, 100039.	2.0	4
74	Advancements in Molecular Techniques and Applications in Environmental Engineering. Water Environment Research, 2012, 84, 814-844.	1.3	3
75	Nanotechnology-Enabled Water Disinfection and Microbial Control. , 2014, , 319-327.		3
76	A multipronged approach for systematic in vitro quantification of catheter-associated biofilms. Journal of Hazardous Materials Letters, 2021, 2, 100032.	2.0	3
77	Safety issues relating to nanomaterials for construction applications. , 2013, , 127-158.		2
78	Nanomaterials in Civil Engineering. , 2013, , 1039-1062.		2
79	Tracking antibiotic resistance through the environment near a biosolid spreading ground: Resistome changes, distribution, and metal(loid) co-selection. Science of the Total Environment, 2022, 823, 153570.	3.9	2
80	Stable Carbon Isotope Fractionation During 1,4-Dioxane Biodegradation. Proceedings of the Water Environment Federation, 2011, 2011, 111-116.	0.0	1
81	Differential Sensitivity of Wetland-Derived Nitrogen Cycling Microorganisms to Copper Nanoparticles. ACS Sustainable Chemistry and Engineering, 2018, 6, 11642-11652.	3.2	1
82	A Readily Scalable, Clinically Demonstrated, Antibiofouling Zwitterionic Surface Treatment for Implantable Medical Devices (Adv. Mater. 20/2022). Advanced Materials, 2022, 34, .	11.1	1