Deborah June Roberts

List of Publications by Year
in descending order

53	1,821	304368	264894
papers	citations	22 h-index	42 g-index

54	54	54	1417
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A review of the role of pre-treatment on the treatment of food waste using microbial fuel cells. Environmental Technology Reviews, 2022, 11, 72-90.	2.1	10
2	Meta-analysis of operational performance and response metrics of microbial fuel cells (MFCs) fed with complex food waste. Journal of Environmental Management, 2022, 315, 115152.	3.8	11
3	Narrow pH tolerance found for a microbial fuel cell treating winery wastewater. Journal of Applied Microbiology, 2021, 131, 2280-2293.	1.4	4
4	Stable Performance of Microbial Fuel Cell Technology Treating Winery Wastewater Irrespective of Seasonal Variations. Journal of Environmental Engineering, ASCE, 2021, 147, 04021043.	0.7	3
5	Real-time and hazard-free water quality monitoring based on microwave planar resonator sensor. Sensors and Actuators A: Physical, 2020, 303, 111663.	2.0	47
6	A Label-Free, Non-Intrusive, and Rapid Monitoring of Bacterial Growth on Solid Medium Using Microwave Biosensor. IEEE Transactions on Biomedical Circuits and Systems, 2020, 14, 2-11.	2.7	61
7	Gold Coplanar Waveguide Resonator Integrated With a Microfluidic Channel for Aqueous Dielectric Detection. IEEE Sensors Journal, 2020, 20, 9825-9833.	2.4	52
8	Antibacterial efficiency assessment of polymer-nanoparticle composites using a high-throughput microfluidic platform. Materials Science and Engineering C, 2020, 111, 110754.	3.8	13
9	Differential Microwave Resonator Sensor Reveals Glucose-Dependent Growth Profile of E. coli on Solid Agar. IEEE Microwave and Wireless Components Letters, 2020, 30, 531-534.	2.0	31
10	Theoretical implications of best management practices for reducing the risk of drinking water contamination with Cryptosporidium from grazing cattle. Agriculture, Ecosystems and Environment, 2018, 259, 184-193.	2.5	2
11	Geotechnical properties of polymer-amended tailings solvent recovery unit (TSRU) oil sands tailings. Canadian Geotechnical Journal, 2017, 54, 1331-1339.	1.4	5
12	Draft Genome Sequence of Marinobacter vinifirmus Type Strain FB1. Genome Announcements, 2017, 5, .	0.8	0
13	Draft Genome Sequence of Marinobacter sp. Strain P4B1, an Electrogenic Perchlorate-Reducing Strain Isolated from a Long-Term Mixed Enrichment Culture of Marine Bacteria. Genome Announcements, 2016, 4, .	0.8	13
14	Enriching acid rock drainage related microbial communities from surface-deposited oil sands tailings. Canadian Journal of Microbiology, 2016, 62, 870-879.	0.8	14
15	Regeneration of a perchlorate-exhausted highly selective ion exchange resin: Kinetics study of adsorption and desorption processes. Separation and Purification Technology, 2016, 158, 266-274.	3.9	22
16	Mathematical modelling and reactor design for multi-cycle bioregeneration of nitrate exhausted ion exchange resin. Water Research, 2016, 88, 766-776.	5.3	16
17	HEALTH²: A Holistic Environmental Assessment Lay Tool for Home Health. Canadian Journal of Civil Engineering, 2015, 42, 241-249.	0.7	1
18	Bioregeneration of single use nitrate selective ion-exchange resin enclosed in a membrane: Kinetics of desorption. Separation and Purification Technology, 2015, 146, 268-275.	3.9	14

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19	Effect of temperature & salt concentration on salt tolerant nitrate-perchlorate reducing bacteria: Nitrate degradation kinetics. Water Research, 2015, 83, 345-353.	5.3	15
20	The presence of nitrate dramatically changed the predominant microbial community in perchlorate degrading cultures under saline conditions. BMC Microbiology, 2014, 14, 225.	1.3	23
21	Retroreflective imaging system for optical labeling and detection of microorganisms. Applied Optics, 2014, 53, 3647.	0.9	4
22	Sustainable nitrate-contaminated water treatment using multi cycle ion-exchange/bioregeneration of nitrate selective resin. Journal of Hazardous Materials, 2013, 262, 539-544.	6.5	41
23	Kinetics Analysis of a Salt-Tolerant Perchlorate-Reducing Bacterium: Effects of Sodium, Magnesium, and Nitrate. Environmental Science & Technology, 2013, 47, 8666-8673.	4.6	34
24	A review of anaerobic treatment of saline wastewater. Environmental Technology (United Kingdom), 2010, 31, 1025-1043.	1.2	121
25	Characterization of microbial populations in pilot-scale fluidized-bed reactors treating perchlorate- and nitrate-laden brine. Water Research, 2010, 44, 4029-4036.	5.3	35
26	Experimental and Numerical Analysis of Biological Regeneration of Perchlorate Laden Ion-Exchange Resins in Batch Reactors. Environmental Engineering Science, 2010, 27, 75-84.	0.8	12
27	Molecular assessment of salt-tolerant, perchlorate- and nitrate-reducing microbial cultures. Water Science and Technology, 2009, 60, 1745-1756.	1.2	16
28	Perchlorate and nitrate treatment by ion exchange integrated with biological brine treatment. Water Research, 2008, 42, 969-976.	5.3	96
29	Kinetics of nitrate and perchlorate reduction in ion-exchange brine using the membrane biofilm reactor (MBfR). Water Research, 2008, 42, 4197-4205.	5.3	61
30	Fluidized bed reactor for the biological treatment of ion-exchange brine containing perchlorate and nitrate. Water Research, 2008, 42, 4291-4298.	5.3	29
31	Divalent Cation Addition (Ca²⁺or Mg²⁺) Stabilizes Biological Treatment of Perchlorate and Nitrate In Ion-Exchange Spent Brine. Environmental Engineering Science, 2007, 24, 725-735.	0.8	24
32	Biodegradation of Synthetic Base Fluid Surrogates in Gulf of Mexico Sediments under Simulated Deep-Sea Conditions. Environmental Science & Technology, 2006, 40, 5737-5742.	4.6	0
33	The influence of structural components of alkyl esters on their anaerobic biodegradation in marine sediment. Biodegradation, 2006, 17, 457-463.	1.5	4
34	Biological Treatment of Perchlorate in Spent ISEP Ion-Exchange Brine. Environmental Engineering Science, 2006, 23, 1009-1016.	0.8	18
35	A Marine Anaerobic Biodegradation Test Applied to the Biodegradation of Synthetic Drilling Mud Base Fluids. Soil and Sediment Contamination, 2005, 14, 433-447.	1.1	8
36	Development of cultures capable of reducing perchlorate and nitrate in high salt solutions. Water Research, 2004, 38, 3322-3330.	5.3	66

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37	In situ assessment of active Thiobacillus species in corroding concrete sewers using fluorescent RNA probes. International Biodeterioration and Biodegradation, 2002, 49, 271-276.	1.9	59
38	Detailed summary of NSF biodeterioration workshop. International Biodeterioration and Biodegradation, 2002, 49, 277-281.	1.9	0
39	Quantifying microbially induced deterioration of concrete: initial studies. International Biodeterioration and Biodegradation, 2002, 49, 227-234.	1.9	142
40	Ala-His mediated peptide bond formation revisited. Origins of Life and Evolution of Biospheres, 2001, 31, 511-526.	0.8	3
41	Isolation and characterization of microorganisms involved in the biodeterioration of concrete in sewers. International Biodeterioration and Biodegradation, 2000, 46, 61-68.	1.9	120
42	Analysis of concrete from corroded sewer pipe. International Biodeterioration and Biodegradation, 1998, 42, 75-84.	1.9	119
43	Effects of TNT and Its Metabolites on Anaerobic TNT Degradation. Journal of Environmental Engineering, ASCE, 1998, 124, 660-667.	0.7	3
44	The Effect of Metals on Biological Remediation of Munitions-Contaminated Soil. Environmental Engineering Science, 1998, 15, 265-277.	0.8	12
45	Optimization of an Aerobic Polishing Stage To Complete the Anaerobic Treatment of Munitions-Contaminated Soils. Environmental Science & Technology, 1996, 30, 2021-2026.	4.6	24
46	Use of narrow-bore high-performance liquid chromatography-diode array detection for the analysis of intermediates of the biological degradation of 2,4,6-trinitrotoluene. Journal of Chromatography A, 1995, 693, 167-175.	1.8	18
47	Initial-phase optimization for bioremediation of munition compound-contaminated soils. Applied and Environmental Microbiology, 1993, 59, 2171-2177.	1.4	215
48	Bioremediation of soils contaminated with the herbicide 2-sec-butyl-4,6-dinitrophenol (dinoseb). Applied and Environmental Microbiology, 1992, 58, 1683-1689.	1.4	61
49	CO ₂ Incorporation and 4-Hydroxy-2-Methylbenzoic Acid Formation during Anaerobic Metabolism of m -Cresol by a Methanogenic Consortium. Applied and Environmental Microbiology, 1990, 56, 472-478.	1.4	53
50	Culture methods for obtaining m-cresol-degrading methanogenic consortia. Current Microbiology, 1988, 17, 83-87.	1.0	6
51	Comparison of the fates of the methyl carbons of m-cresol and p-cresol in methanogenic consortia. Canadian Journal of Microbiology, 1987, 33, 335-338.	0.8	27
52	The effects of cyanide on the methanogenic degradation of phenolic compounds. Water Research, 1986, 20, 1315-1320.	5.3	27
53	Two-Stage Bioremediation of TNT Contaminated Soils. , 0, , 177-177-13.		5