

Robert C Borden

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1469576/publications.pdf>

Version: 2024-02-01

65
papers

2,208
citations

304743

22
h-index

223800

46
g-index

68
all docs

68
docs citations

68
times ranked

1523
citing authors

#	ARTICLE	IF	CITATIONS
1	Transport of dissolved hydrocarbons influenced by oxygen-limited biodegradation: 1. Theoretical development. <i>Water Resources Research</i> , 1986, 22, 1973-1982.	4.2	315
2	Occurrence and Treatment of 1,4-Dioxane in Aqueous Environments. <i>Environmental Engineering Science</i> , 2003, 20, 423-432.	1.6	218
3	Intrinsic biodegradation of MTBE and BTEX in a gasoline-contaminated aquifer. <i>Water Resources Research</i> , 1997, 33, 1105-1115.	4.2	187
4	Geochemical Indicators of Intrinsic Bioremediation. <i>Ground Water</i> , 1995, 33, 180-189.	1.3	159
5	Critical Evaluation of Factors Required To Terminate the Postclosure Monitoring Period at Solid Waste Landfills. <i>Environmental Science & Technology</i> , 2002, 36, 3457-3464.	10.0	102
6	Transport of dissolved hydrocarbons influenced by oxygen-limited biodegradation: 2. Field application. <i>Water Resources Research</i> , 1986, 22, 1983-1990.	4.2	88
7	Evaluation of groundwater extraction for remediation of petroleum-contaminated aquifers. <i>Water Environment Research</i> , 1992, 64, 28-36.	2.7	84
8	Influence of protozoan grazing on contaminant biodegradation. <i>FEMS Microbiology Ecology</i> , 1999, 29, 179-189.	2.7	61
9	Concurrent bioremediation of perchlorate and 1,1,1-trichloroethane in an emulsified oil barrier. <i>Journal of Contaminant Hydrology</i> , 2007, 94, 13-33.	3.3	61
10	Control of BTEX Migration Using a Biologically Enhanced Permeable Barrier. <i>Ground Water Monitoring and Remediation</i> , 1997, 17, 70-80.	0.8	58
11	Effective distribution of emulsified edible oil for enhanced anaerobic bioremediation. <i>Journal of Contaminant Hydrology</i> , 2007, 94, 1-12.	3.3	58
12	Mineralization of 1,4-dioxane in the presence of a structural analog. <i>Biodegradation</i> , 2000, 11, 239-246.	3.0	52
13	Site-Specific Variability in BTEX Biodegradation Under Denitrifying Conditions. <i>Ground Water</i> , 1997, 35, 305-311.	1.3	50
14	MTBE and aromatic hydrocarbons in North Carolina stormwater runoff. <i>Environmental Pollution</i> , 2002, 118, 141-152.	7.5	50
15	Anaerobic biodegradation of alkylbenzenes and trichloroethylene in aquifer sediment down gradient of a sanitary landfill. <i>Journal of Contaminant Hydrology</i> , 1996, 23, 263-283.	3.3	44
16	Hydrocarbon dissolution and transport: a comparison of equilibrium and kinetic models. <i>Journal of Contaminant Hydrology</i> , 1992, 10, 309-323.	3.3	40
17	Impact of edible oil injection on the permeability of aquifer sands. <i>Journal of Contaminant Hydrology</i> , 2004, 71, 219-237.	3.3	40
18	Enhanced reductive dechlorination in columns treated with edible oil emulsion. <i>Journal of Contaminant Hydrology</i> , 2006, 87, 54-72.	3.3	38

#	ARTICLE	IF	CITATIONS
19	Dissolution and bioremediation of nonaqueous phase hydrocarbons: Model development and laboratory evaluation. <i>Water Resources Research</i> , 1993, 29, 2203-2213.	4.2	35
20	Fractionation of stable isotopes in perchlorate and nitrate during in situ biodegradation in a sandy aquifer. <i>Environmental Chemistry</i> , 2009, 6, 44.	1.5	34
21	Biodegradation of 1,4-Dioxane Using Trickling Filter. <i>Journal of Environmental Engineering, ASCE</i> , 2004, 130, 926-931.	1.4	32
22	Evaluation of Slow Release Substrates for Anaerobic Bioremediation. <i>Bioremediation Journal</i> , 2006, 10, 59-69.	2.0	24
23	Enhanced anaerobic bioremediation of a TCE source at the Tarheel Army Missile Plant using EOS. <i>Remediation</i> , 2007, 17, 5-19.	2.4	23
24	Enhanced Reductive Dechlorination of Tetrachloroethene Dense Nonaqueous Phase Liquid with EVO and Mg(OH) ₂ . <i>Environmental Science & Technology</i> , 2014, 48, 624-631.	10.0	23
25	In Situ Measurement and Numerical Simulation of Oxygen Limited Biotransformation. <i>Ground Water Monitoring and Remediation</i> , 1989, 9, 83-91.	0.8	22
26	Modeling Cometabolism of Cyclic Ethers. <i>Environmental Engineering Science</i> , 2002, 19, 215-228.	1.6	22
27	Anaerobic Biodegradation of Alkylbenzenes in Laboratory Microcosms Representing Ambient Conditions. <i>Bioremediation Journal</i> , 1997, 1, 53-64.	2.0	21
28	Transport of Edible Oil Emulsions in Clayey Sands: One-Dimensional Column Results and Model Development. <i>Journal of Hydrologic Engineering - ASCE</i> , 2006, 11, 230-237.	1.9	20
29	Enhanced TEX Biodegradation in Nutrient Briquet-Peat Barrier System. <i>Journal of Environmental Engineering, ASCE</i> , 1997, 123, 18-24.	1.4	18
30	IN SITU MEASUREMENT OF ADSORPTION AND BIOTRANSFORMATION AT A HAZARDOUS WASTE SITE. <i>Journal of the American Water Resources Association</i> , 1987, 23, 629-636.	2.4	15
31	Anaerobic Bioremediation of Acid Mine Drainage using Emulsified Soybean Oil. <i>Mine Water and the Environment</i> , 2005, 24, 199-208.	2.0	15
32	Transport of Edible Oil Emulsions in Clayey Sands: 3D Sandbox Results and Model Validation. <i>Journal of Hydrologic Engineering - ASCE</i> , 2006, 11, 238-244.	1.9	13
33	Effect of In-Lake Water Quality on Pollutant Removal in Two Ponds. <i>Journal of Environmental Engineering, ASCE</i> , 1998, 124, 737-743.	1.4	12
34	Numerical Modeling of Emulsified Oil Distribution in Heterogeneous Aquifers. <i>Ground Water</i> , 2009, 47, 246-258.	1.3	12
35	Enhanced reductive dechlorination of trichloroethene in an acidic DNAPL impacted aquifer. <i>Journal of Environmental Management</i> , 2019, 237, 617-628.	7.8	12
36	Evaluating the impact of back diffusion on groundwater cleanup time. <i>Journal of Contaminant Hydrology</i> , 2021, 243, 103889.	3.3	12

#	ARTICLE	IF	CITATIONS
37	Impact of glycerin and lignosulfonate on biodegradation of high explosives in soil. Journal of Contaminant Hydrology, 2016, 194, 1-9.	3.3	11
38	Rate and Extent of Chlorinated Ethene Removal at 37 ERD Sites. Journal of Environmental Engineering, ASCE, 2017, 143, .	1.4	11
39	Impact of injection system design on ISCO performance with permanganate " mathematical modeling results. Journal of Contaminant Hydrology, 2012, 128, 33-46.	3.3	10
40	Power earth auger modification for waste extraction from pit latrines. Journal of Water Sanitation and Hygiene for Development, 2014, 4, 72-80.	1.8	10
41	Spatial Heterogeneity of Microbial and Geochemical Parameters in Gasoline Contaminated Aquifers. Practice Periodical of Hazardous, Toxic and Radioactive Waste Management, 2004, 8, 105-118.	0.4	8
42	Kinetics of Permanganate Consumption by Natural Oxidant Demand in Aquifer Solids. Environmental Engineering Science, 2012, 29, 646-653.	1.6	8
43	A Physically Based Approach for Estimating Hydraulic Conductivity from <sc>HPT</sc> Pressure and Flowrate. Ground Water, 2021, 59, 266-272.	1.3	8
44	Numerical Generation of Flow Nets - The FLOWNS Model. Ground Water, 1990, 28, 946-950.	1.3	7
45	Determining Anaerobic BTEX Decay Rates in a Contaminated Aquifer. Journal of Hydrologic Engineering - ASCE, 1998, 3, 285-293.	1.9	6
46	A design tool for planning emulsified oil injection systems. Remediation, 2008, 18, 33-47.	2.4	6
47	Waste Glycerol Addition to Reduce AMD Production in Unsaturated Mine Tailings. Mine Water and the Environment, 2012, 31, 161-171.	2.0	6
48	Simulation Assessment of Direct Push Injection Logging for High Resolution Aquifer Characterization. Ground Water, 2019, 57, 562-574.	1.3	6
49	Natural and Enhanced Attenuation of Explosives on a Hand Grenade Range. Journal of Environmental Quality, 2017, 46, 961-967.	2.0	5
50	Perchlorate natural attenuation in a riparian zone. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2014, 49, 1100-1109.	1.7	4
51	IN SITU Bioremediation Of Chlorinated Ethene Source Zones. , 2014, , 395-457.		4
52	ANAEROBIC BIOREMEDIATION OF ACID MINE DRAINAGE USING EOS. Journal of the American Society of Mining and Reclamation, 2004, 2004, 1192-1204.	0.3	4
53	Physical, Hydrologic, and Aqueous Chemical Characterization of the Ore Knob Tailings Pile (Ashe) Tj ETQq1 1 0.784314 rgBT /Overlock 1	2.0	3
54	Laboratory Column Evaluation of High Explosives Attenuation in Grenade Range Soils. Journal of Environmental Quality, 2017, 46, 968-974.	2.0	3

#	ARTICLE	IF	CITATIONS
55	Anaerobic Biodegradation and Biotransformation Using Emulsified Edible Oils. , 2005, , 485-500.		2
56	Stochastic cost-optimization and risk assessment of in situ chemical oxidation for dense non-aqueous phase liquid (DNAPL) source remediation. Stochastic Environmental Research and Risk Assessment, 2019, 33, 73-89.	4.0	2
57	Passive Bioremediation of Perchlorate Using Emulsified Edible Oils. SERDP and ESTCP Remediation Technology Monograph Series, 2009, , 155-175.	0.3	2
58	Natural Bioattenuation of Anaerobic Hydrocarbons and Chlorinated Solvents in Groundwater. , 2000, , 121-151.		1
59	Spreadsheetâ€Based Design Tool for <i>In Situ</i> Anaerobic Bioremediation Using Soluble Substrate. Remediation, 2013, 23, 97-109.	2.4	1
60	Modeling Remediation of Chlorinated Solvent Plumes. SERDP and ESTCP Remediation Technology Monograph Series, 2010, , 145-184.	0.3	1
61	Principles of ISCO Related Subsurface Transport and Modeling. SERDP and ESTCP Remediation Technology Monograph Series, 2011, , 233-284.	0.3	1
62	Discussion of â€ Stormwater Quality Characteristics in Detention Basins â€by Raymond A. Ferrara and Patrick Witkowski (April, 1983). Journal of Environmental Engineering, ASCE, 1984, 110, 513-514.	1.4	0
63	Influence of Solid Phase Fe(II) on Fe(III) Bioavailability in Aquifer Sediment. Practice Periodical of Hazardous, Toxic and Radioactive Waste Management, 2004, 8, 89-98.	0.4	0
64	Spreadsheetâ€Based modeling of ISCO with permanganate. Remediation, 2011, 22, 43-58.	2.4	0
65	Simulation of Enhanced In-Situ Bioremediation of Petroleum Hydrocarbons. , 1991, , 529-535.		0