Robert C Borden

List of Publications by Year
in descending order

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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	A Physically Based Approach for Estimating Hydraulic Conductivity from <scp>HPT</scp> Pressure and Flowrate. Ground Water, 2021, 59, 266-272.	1.3	8
2	Evaluating the impact of back diffusion on groundwater cleanup time. Journal of Contaminant Hydrology, 2021, 243, 103889.	3.3	12
3	Enhanced reductive dechlorination of trichloroethene in an acidic DNAPL impacted aquifer. Journal of Environmental Management, 2019, 237, 617-628.	7.8	12
4	Simulation Assessment of Direct Push Injection Logging for Highâ€Resolution Aquifer Characterization. Ground Water, 2019, 57, 562-574.	1.3	6
5	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
6	Rate and Extent of Chlorinated Ethene Removal at 37 ERD Sites. Journal of Environmental Engineering, ASCE, 2017, 143, .	1.4	11
7	Natural and Enhanced Attenuation of Explosives on a Hand Grenade Range. Journal of Environmental Quality, 2017, 46, 961-967.	2.0	5
8	Laboratory Column Evaluation of High Explosives Attenuation in Grenade Range Soils. Journal of Environmental Quality, 2017, 46, 968-974.	2.0	3
9	Impact of glycerin and lignosulfonate on biodegradation of high explosives in soil. Journal of Contaminant Hydrology, 2016, 194, 1-9.	3.3	11
10	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
11	Enhanced Reductive Dechlorination of Tetrachloroethene Dense Nonaqueous Phase Liquid with EVO and Mg(OH)₂. Environmental Science & Technology, 2014, 48, 624-631.	10.0	23
12	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
13	IN SITU Bioremediation Of Chlorinated Ethene Source Zones. , 2014, , 395-457.		4
14	Spreadsheetâ€Based Design Tool for In Situ Anaerobic Bioremediation Using Soluble Substrate. Remediation, 2013, 23, 97-109.	2.4	1
15	Kinetics of Permanganate Consumption by Natural Oxidant Demand in Aquifer Solids. Environmental Engineering Science, 2012, 29, 646-653.	1.6	8
16	Waste Glycerol Addition to Reduce AMD Production in Unsaturated Mine Tailings. Mine Water and the Environment, 2012, 31, 161-171.	2.0	6
17	Physical, Hydrologic, and Aqueous Chemical Characterization of the Ore Knob Tailings Pile (Ashe) Tj ETQq1 1 0.784314 rgBT /Overloc	2.0	3
18	Impact of injection system design on ISCO performance with permanganate â€" mathematical modeling results. Journal of Contaminant Hydrology, 2012, 128, 33-46.	3.3	10

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19	Spreadsheetâ€based modeling of ISCO with permanganate. Remediation, 2011, 22, 43-58.	2.4	0
20	Principles of ISCO Related Subsurface Transport and Modeling. SERDP and ESTCP Remediation Technology Monograph Series, 2011, , 233-284.	0.3	1
21	Modeling Remediation of Chlorinated Solvent Plumes. SERDP and ESTCP Remediation Technology Monograph Series, 2010, , 145-184.	0.3	1
22	Numerical Modeling of Emulsified Oil Distribution in Heterogeneous Aquifers. Ground Water, 2009, 47, 246-258.	1.3	12
23	Fractionation of stable isotopes in perchlorate and nitrate during in situ biodegradation in a sandy aquifer. Environmental Chemistry, 2009, 6, 44.	1.5	34
24	Passive Bioremediation of Perchlorate Using Emulsified Edible Oils. SERDP and ESTCP Remediation Technology Monograph Series, 2009, , 155-175.	0.3	2
25	A design tool for planning emulsified oilâ€injection systems. Remediation, 2008, 18, 33-47.	2.4	6
26	Enhanced anaerobic bioremediation of a TCE source at the Tarheel Army Missile Plant using EOS. Remediation, 2007, 17, 5-19.	2.4	23
27	Effective distribution of emulsified edible oil for enhanced anaerobic bioremediation. Journal of Contaminant Hydrology, 2007, 94, 1-12.	3.3	58
28	Concurrent bioremediation of perchlorate and 1,1,1-trichloroethane in an emulsified oil barrier. Journal of Contaminant Hydrology, 2007, 94, 13-33.	3.3	61
29	Evaluation of Slow Release Substrates for Anaerobic Bioremediation. Bioremediation Journal, 2006, 10, 59-69.	2.0	24
30	Enhanced reductive dechlorination in columns treated with edible oil emulsion. Journal of Contaminant Hydrology, 2006, 87, 54-72.	3.3	38
31	Transport of Edible Oil Emulsions in Clayey Sands: 3D Sandbox Results and Model Validation. Journal of Hydrologic Engineering - ASCE, 2006, 11, 238-244.	1.9	13
32	Transport of Edible Oil Emulsions in Clayey Sands: One-Dimensional Column Results and Model Development. Journal of Hydrologic Engineering - ASCE, 2006, 11, 230-237.	1.9	20
33	Anaerobic Bioremediation of Acid Mine Drainage using Emulsified Soybean Oil. Mine Water and the Environment, 2005, 24, 199-208.	2.0	15
34	Anaerobic Biodegradation and Biotransformation Using Emulsified Edible Oils. , 2005, , 485-500.		2
35	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
36	Biodegradation of 1,4-Dioxane Using Trickling Filter. Journal of Environmental Engineering, ASCE, 2004, 130, 926-931.	1.4	32

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37	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
38	Impact of edible oil injection on the permeability of aquifer sands. Journal of Contaminant Hydrology, 2004, 71, 219-237.	3.3	40
39	ANAEROBIC BIOREMEDIATION OF ACID MINE DRAINAGE USING EOS. Journal of the American Society of Mining and Reclamation, 2004, 2004, 1192-1204.	0.3	4
40	Occurrence and Treatment of 1,4-Dioxane in Aqueous Environments. Environmental Engineering Science, 2003, 20, 423-432.	1.6	218
41	Modeling Cometabolism of Cyclic Ethers. Environmental Engineering Science, 2002, 19, 215-228.	1.6	22
42	Critical Evaluation of Factors Required To Terminate the Postclosure Monitoring Period at Solid Waste Landfills. Environmental Science & Technology, 2002, 36, 3457-3464.	10.0	102
43	MTBE and aromatic hydrocarbons in North Carolina stormwater runoff. Environmental Pollution, 2002, 118, 141-152.	7.5	50
44	Natural Bioattenuation of Anaerobic Hydrocarbons and Chlorinated Solvents in Groundwater. , 2000, , 121-151.		1
45	Mineralization of 1,4-dioxane in the presence of a structural analog. Biodegradation, 2000, 11, 239-246.	3.0	52
46	Influence of protozoan grazing on contaminant biodegradation. FEMS Microbiology Ecology, 1999, 29, 179-189.	2.7	61
47	Effect of In-Lake Water Quality on Pollutant Removal in Two Ponds. Journal of Environmental Engineering, ASCE, 1998, 124, 737-743.	1.4	12
48	Determining Anaerobic BTEX Decay Rates in a Contaminated Aquifer. Journal of Hydrologic Engineering - ASCE, 1998, 3, 285-293.	1.9	6
49	Enhanced TEX Biodegradation in Nutrient Briquet-Peat Barrier System. Journal of Environmental Engineering, ASCE, 1997, 123, 18-24.	1.4	18
50	Anaerobic Biodegradation of Alkylbenzenes in Laboratory Microcosms Representing Ambient Conditions. Bioremediation Journal, 1997, 1, 53-64.	2.0	21
51	Intrinsic biodegradation of MTBE and BTEX in a gasoline-contaminated aquifer. Water Resources Research, 1997, 33, 1105-1115.	4.2	187
52	Site-Specific Variability in BTEX Biodegradation Under Denitrifying Conditions. Ground Water, 1997, 35, 305-311.	1.3	50
53	Control of BTEX Migration Using a Biologically Enhanced Permeable Barrier. Ground Water Monitoring and Remediation, 1997, 17, 70-80.	0.8	58
54	Anaerobic biodegradation of alkylbenzenes and trichloroethylene in aquifer sediment down gradient of a sanitary landfill. Journal of Contaminant Hydrology, 1996, 23, 263-283.	3.3	44

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55	Geochemical Indicators of Intrinsic Bioremediation. Ground Water, 1995, 33, 180-189.	1.3	159
56	Dissolution and biorestoration of nonaqueous phase hydrocarbons: Model development and laboratory evaluation. Water Resources Research, 1993, 29, 2203-2213.	4.2	35
57	Evaluation of groundwater extraction for remediation of petroleumâ€contaminated aquifers. Water Environment Research, 1992, 64, 28-36.	2.7	84
58	Hydrocarbon dissolution and transport: a comparison of equilibrium and kinetic models. Journal of Contaminant Hydrology, 1992, 10, 309-323.	3.3	40
59	Simulation of Enhanced In-Situ Biorestoration of Petroleum Hydrocarbons. , 1991, , 529-535.		0
60	Numerical Generation of Flow Nets - The FLOWNS Model. Ground Water, 1990, 28, 946-950.	1.3	7
61	In Situ Measurement and Numerical Simulation of Oxygen Limited Biotransformation. Ground Water Monitoring and Remediation, 1989, 9, 83-91.	0.8	22
62	IN SITU MEASUREMENT OF ADSORPTION AND BIOTRANSFORMATION AT A HAZARDOUS WASTE SITE. Journal of the American Water Resources Association, 1987, 23, 629-636.	2.4	15
63	Transport of dissolved hydrocarbons influenced by oxygenâ€limited biodegradation: 1. Theoretical development. Water Resources Research, 1986, 22, 1973-1982.	4.2	315
64	Transport of dissolved hydrocarbons influenced by oxygen-limited biodegradation: 2. Field application. Water Resources Research, 1986, 22, 1983-1990.	4.2	88
65	Discussion of â€œ 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