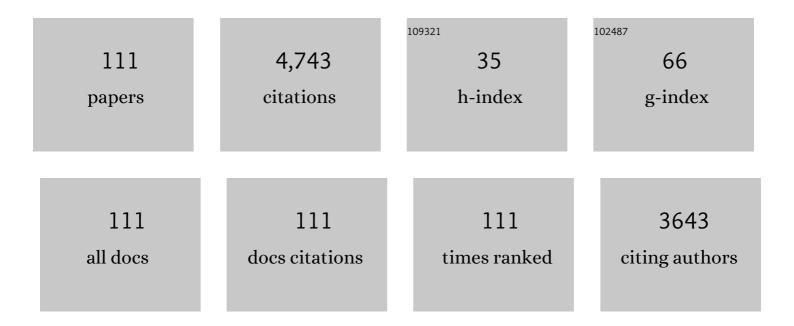
## Brent E Sleep

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Effect of low permeability zone location on remediation of Cr(VI)-contaminated media by electrokinetics combined with a modified-zeolite barrier. Journal of Hazardous Materials, 2022, 426, 127785.	12.4	12
2	A high-throughput and cost-effective microplate reader method for measuring persulfates (peroxydisulfate and peroxymonosulfate). Talanta, 2022, 240, 123170.	5.5	6
3	Toluene NAPL Oxidation by Ferrous Activated Persulfate in a Fractured Rock Glass Replica. Water Resources Research, 2022, 58, .	4.2	2
4	The impacts of microbial growth and biogenic gas generation on the dispersivity of porous media during anaerobic biodegradation. Journal of Hydrology, 2021, 593, 125875.	5.4	1
5	Sequential treatment of nitrate and phosphate in groundwater using a permeable reactive barrier system. Journal of Environmental Management, 2021, 300, 113699.	7.8	12
6	Favorable and unfavorable attachment of colloids in a discrete sandstone fracture. Journal of Contaminant Hydrology, 2021, 243, 103919.	3.3	2
7	Effect of rheology and humic acids on the transport of environmental fluids: Potential implications for soil remediation revealed through microfluidics. Journal of Applied Polymer Science, 2020, 137, 48465.	2.6	5
8	Two distinct Dehalobacter strains sequentially dechlorinate 1,1,1-trichloroethane and 1,1-dichloroethane at a field site treated with granular zero valent iron and guar gum. Water Research, 2020, 186, 116310.	11.3	7
9	Selective solvent filters for non-aqueous phase liquid separation from water. Scientific Reports, 2020, 10, 11931.	3.3	17
10	Effects of hydrogen gas production, trapping and bubble-facilitated transport during nanoscale zero-valent iron (nZVI) injection in porous media. Journal of Contaminant Hydrology, 2020, 234, 103677.	3.3	5
11	An experimental and modeling study of evapotranspiration from integrated green roof photovoltaic systems. Ecological Engineering, 2020, 152, 105767.	3.6	17
12	The Effect of Intraparticle Porosity and Interparticle Voids on the Hydraulic Properties of Soilless Media. Vadose Zone Journal, 2019, 18, 1-13.	2.2	10
13	Moving into the Third Decade of Nanoscale Zero-Valent Iron (NZVI) Development: Best Practices for Field Implementation. , 2019, , 293-333.		1
14	Evaluating the shading effect of photovoltaic panels on green roof discharge reduction and plant growth. Journal of Hydrology, 2019, 568, 919-928.	5.4	34
15	Multiscale roughness influence on conservative solute transport in self-affine fractures. International Journal of Heat and Mass Transfer, 2019, 133, 606-618.	4.8	60
16	Experimental Study of Water Infiltration in Unsaturated Horizontal Sand Columns under Various Air Confinement Conditions. Geofluids, 2019, 2019, 1-13.	0.7	6
17	Relative Permeability Measurements during the Exsolution and Dissolution of Hydrogen Gas Produced by the Hydrolysis of Sodium Borohydride. Vadose Zone Journal, 2019, 18, 190043.	2.2	2
18	Energy and Carbon-Emission Analysis of Integrated Green-Roof Photovoltaic Systems: Probabilistic Approach. Journal of Infrastructure Systems, 2018, 24, .	1.8	17

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19	Transport of polymer stabilized nano-scale zero-valent iron in porous media. Journal of Contaminant Hydrology, 2018, 212, 65-77.	3.3	19
20	In situ trapping and treating of hexavalent chromium using scleroglucan-based fluids: A proof of concept. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 559, 192-200.	4.7	18
21	Temporal Mixing Behavior of Conservative Solute Transport through 2D Self-Affine Fractures. Processes, 2018, 6, 158.	2.8	12
22	A modified FAO evapotranspiration model for refined water budget analysis for Green Roof systems. Ecological Engineering, 2018, 119, 45-53.	3.6	36
23	Electrokinetic-enhanced permanganate delivery and remediation of contaminated low permeability porous media. Water Research, 2017, 113, 215-222.	11.3	68
24	Influences of Four Extensive Green Roof Design Variables on Stormwater Hydrology. Journal of Hydrologic Engineering - ASCE, 2017, 22, .	1.9	31
25	Numerical modeling of the effects of roughness on flow and eddyÂformation in fractures. Journal of Rock Mechanics and Geotechnical Engineering, 2017, 9, 105-115.	8.1	64
26	Rethinking aqueous phase diffusion related isotope fractionation: Contrasting theoretical effects with observations at the field scale. Science of the Total Environment, 2017, 607-608, 1085-1095.	8.0	10
27	Diffusion related isotopic fractionation effects with one-dimensional advective–dispersive transport. Science of the Total Environment, 2016, 550, 200-208.	8.0	14
28	Evaluation of peat and sawdust as permeable reactive barrier materials for stimulating in situ biodegradation of trichloroethene. Journal of Hazardous Materials, 2016, 313, 37-48.	12.4	13
29	Evaluation of Limiting Nutrients in a Deep Geological Repository. , 2016, , .		0
30	Long-Term Field Study of Microbial Community and Dechlorinating Activity Following Carboxymethyl Cellulose-Stabilized Nanoscale Zero-Valent Iron Injection. Environmental Science & Technology, 2016, 50, 7658-7670.	10.0	97
31	DNAPL accumulation in wells and DNAPL recovery from wells: Model development and application to a laboratory study. Advances in Water Resources, 2015, 85, 109-119.	3.8	6
32	Gas pressure gradients in unsaturated porous media and the assumption of infinite gas mobility. Water Resources Research, 2015, 51, 5623-5639.	4.2	4
33	Practical finite analytic methods for simulation of advection-dominated solute transport. Hydrological Sciences Journal, 2015, 60, 2204-2213.	2.6	0
34	Contributions of Abiotic and Biotic Dechlorination Following Carboxymethyl Cellulose Stabilized Nanoscale Zero Valent Iron Injection. Environmental Science & Technology, 2015, 49, 8648-8656.	10.0	84
35	Practical finite analytic methods for simulation of solute transport with scale-dependent dispersion under advection-dominated conditions. International Journal of Heat and Mass Transfer, 2015, 83, 799-808.	4.8	5
36	Distribution of biofilm thickness in porous media and implications for permeability models. Hydrogeology Journal, 2015, 23, 1695-1702.	2.1	9

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37	nZVI injection into variably saturated soils: Field and modeling study. Journal of Contaminant Hydrology, 2015, 183, 16-28.	3.3	38
38	Comparison of upscaled models for multistage mass discharge from DNAPL source zones. Water Resources Research, 2014, 50, 3187-3205.	4.2	13
39	Numerical modelling of flow and transport in rough fractures. Journal of Rock Mechanics and Geotechnical Engineering, 2014, 6, 535-545.	8.1	28
40	The influence of unavoidable saturation averaging on the experimental measurement of dynamic capillary effects: A numerical simulation study. Advances in Water Resources, 2014, 66, 43-51.	3.8	14
41	The influence of humic acid and clay content on the transport of polymer-coated iron nanoparticles through sand. Science of the Total Environment, 2014, 496, 155-164.	8.0	49
42	Characterization of nZVI Mobility in a Field Scale Test. Environmental Science & Technology, 2014, 48, 2862-2869.	10.0	116
43	An analysis of a mixed convection associated with thermal heating in contaminated porous media. Science of the Total Environment, 2014, 499, 7-17.	8.0	18
44	Modeling Source Zone Remediation. , 2014, , 113-144.		0
45	Nanoscale zero valent iron and bimetallic particles for contaminated site remediation. Advances in Water Resources, 2013, 51, 104-122.	3.8	718
46	Impact of nZVI stability on mobility in porous media. Journal of Contaminant Hydrology, 2013, 145, 17-25.	3.3	92
47	An evaluation of Sherwood–Gilland models for NAPL dissolution and their relationship to soil properties. Journal of Contaminant Hydrology, 2013, 155, 87-98.	3.3	25
48	Forces of interactions between iron and aluminum silicates: Effect of water chemistry and polymer coatings. Journal of Colloid and Interface Science, 2013, 411, 8-15.	9.4	12
49	Carboxymethyl cellulose binding to mineral substrates: Characterization by atomic force microscopy–based Force spectroscopy and quartz-crystal microbalance with dissipation monitoring. Journal of Colloid and Interface Science, 2013, 402, 58-67.	9.4	40
50	Forces of interaction between fresh iron particles and iron oxide (magnetite): Effect of water chemistry and polymer coatings. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2013, 433, 104-110.	4.7	23
51	A Field-Validated Model for In Situ Transport of Polymer-Stabilized nZVI and Implications for Subsurface Injection. Environmental Science & amp; Technology, 2013, 47, 7332-7340.	10.0	83
52	Coupled simulation of DNAPL infiltration and dissolution in three-dimensional heterogeneous domains: Process model validation. Water Resources Research, 2013, 49, 7023-7036.	4.2	30
53	Virus and virusâ€sized microsphere transport in a dolomite rock fracture. Water Resources Research, 2013, 49, 808-824.	4.2	26
54	Forces of Interactions between Bare and Polymer-Coated Iron and Silica: Effect of pH, Ionic Strength, and Humic Acids. Environmental Science & Technology, 2012, 46, 13401-13408.	10.0	32

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55	Effect of Water Chemistry and Aging on Iron—Mica Interaction Forces: Implications for Iron Particle Transport. Langmuir, 2012, 28, 10453-10463.	3.5	16
56	Colloid Transport in Dolomite Rock Fractures: Effects of Fracture Characteristics, Specific Discharge, and Ionic Strength. Environmental Science & Technology, 2012, 46, 9987-9994.	10.0	35
57	Electrophoresis enhanced transport of nano-scale zero valent iron. Advances in Water Resources, 2012, 40, 71-82.	3.8	33
58	Boundary depletion rate and drawdown in leaky wedgeâ€shaped aquifers. Hydrological Processes, 2012, 26, 3101-3113.	2.6	12
59	Impact of lowâ€ŧemperature electrical resistance heating on subsurface flow and transport. Water Resources Research, 2011, 47, .	4.2	26
60	The Impact of Biofilm Growth on Transport of Escherichia coli O157:H7 in Sand. Ground Water, 2011, 49, 20-31.	1.3	19
61	Modeling discrete gas bubble formation and mobilization during subsurface heating of contaminated zones. Advances in Water Resources, 2011, 34, 537-549.	3.8	28
62	A flow cell simulating a subsurface rock fracture for investigations of groundwater-derived biofilms. International Microbiology, 2011, 14, 163-71.	2.4	5
63	Simulation of the subsurface mobility of carbon nanoparticles at the field scale. Advances in Water Resources, 2010, 33, 361-371.	3.8	52
64	The Impact of Carbon Tetrachloride on an Anaerobic Methanol-Degrading Microbial Community. Water, Air, and Soil Pollution, 2010, 212, 357-368.	2.4	6
65	The impact of methanogenesis on flow and transport in coarse sand. Journal of Contaminant Hydrology, 2009, 103, 48-57.	3.3	40
66	Variations in expression of carbon isotope fractionation of chlorinated ethenes during biologically enhanced PCE dissolution close to a source zone. Journal of Contaminant Hydrology, 2009, 110, 60-71.	3.3	30
67	Role of NAPL Thermal Properties in the Effectiveness of Hot Water Flooding. Transport in Porous Media, 2009, 79, 393-405.	2.6	17
68	Three-dimensional semi-analytical solution to groundwater flow in confined and unconfined wedge-shaped aquifers. Advances in Water Resources, 2009, 32, 925-935.	3.8	19
69	Hot water flushing for immiscible displacement of a viscous NAPL. Journal of Contaminant Hydrology, 2007, 91, 247-266.	3.3	42
70	The spatial distribution of eubacteria and archaea in sand–clay columns degrading carbon tetrachloride and methanol. Journal of Contaminant Hydrology, 2007, 94, 34-48.	3.3	18
71	Effects of Trace Element Concentration on Enzyme Controlled Stable Isotope Fractionation during Aerobic Biodegradation of Toluene. Environmental Science & Technology, 2006, 40, 7675-7681.	10.0	60
72	Evaluation of Isotopic Enrichment Factors for the Biodegradation of Chlorinated Ethenes Using a Parameter Estimation Model:  Toward an Improved Quantification of Biodegradation. Environmental Science & Technology, 2006, 40, 3886-3892.	10.0	27

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73	Biological Enhancement of Tetrachloroethene Dissolution and Associated Microbial Community Changes. Environmental Science & Technology, 2006, 40, 3623-3633.	10.0	93
74	lsotopic Fractionation of Tetrachloroethene Undergoing Biodegradation Supported by Endogenous Decay. Journal of Environmental Engineering, ASCE, 2006, 132, 725-735.	1.4	8
75	Transport, biodegradation and isotopic fractionation of chlorinated ethenes: modeling and parameter estimation methods. Advances in Water Resources, 2005, 28, 87-98.	3.8	15
76	Quantifying chlorinated ethene degradation during reductive dechlorination at Kelly AFB using stable carbon isotopes. Journal of Contaminant Hydrology, 2005, 76, 279-293.	3.3	99
77	Long-term tetrachlorethene degradation sustained by endogenous cell decay. Journal of Environmental Engineering and Science, 2005, 4, 11-17.	0.8	29
78	Laboratory Study of Treatment of Trichloroethene by Chemical Oxidation Followed by Bioremediation. Environmental Science & amp; Technology, 2005, 39, 2888-2897.	10.0	57
79	Impact of Chlorofluorocarbon 113 on Chlorinated Ethene Biodegradation. Bioremediation Journal, 2004, 8, 13-21.	2.0	1
80	Non-enzymatic degradation of chlorofluorocarbon 113 using cyanocobalamin under anaerobic conditions. Journal of Environmental Engineering and Science, 2004, 3, 295-299.	0.8	1
81	Parameter estimation for modeling reductive dechlorination with isotopic fractionation. Developments in Water Science, 2004, , 1285-1295.	0.1	0
82	Phylogenetic analysis of bacterial populations in an anaerobic microbial consortium capable of degrading saturation concentrations of tetrachloroethylene. Canadian Journal of Microbiology, 2003, 49, 15-27.	1.7	40
83	Carbon and Hydrogen Isotopic Fractionation during Anaerobic Biodegradation of Benzene. Applied and Environmental Microbiology, 2003, 69, 191-198.	3.1	159
84	Modeling Fate and Transport of Chlorinated Organic Compounds in the Subsurface. , 2003, , .		0
85	Knudsen diffusion, gas permeability, and water content in an unconsolidated porous medium. Water Resources Research, 2002, 38, 16-1-16-15.	4.2	70
86	Effects of biofilm growth on flow and transport through a glass parallel plate fracture. Journal of Contaminant Hydrology, 2002, 56, 227-246.	3.3	33
87	The effect of temperature on adsorption of organic compounds to soils. Canadian Geotechnical Journal, 2001, 38, 46-52.	2.8	23
88	Stable Carbon Isotope Evidence for Intrinsic Bioremediation of Tetrachloroethene and Trichloroethene at Area 6, Dover Air Force Base. Environmental Science & Technology, 2001, 35, 261-269.	10.0	246
89	Variability in Carbon Isotopic Fractionation during Biodegradation of Chlorinated Ethenes:Â Implications for Field Applications. Environmental Science & Technology, 2001, 35, 901-907.	10.0	191
90	Removal of volatile and semivolatile organic contamination from soil by air and steam flushing. Journal of Contaminant Hydrology, 2001, 50, 21-40.	3.3	21

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91	Effects of Biomass Growth on Gas Pressure Drop in Biofilters. Journal of Environmental Engineering, ASCE, 2001, 127, 388-396.	1.4	55
92	Modeling wells in variably saturated soil with wellbore fluid gravity segregation. Advances in Water Resources, 2000, 23, 689-697.	3.8	8
93	Column studies of biodegradation of mixtures of tetrachloroethene and carbon tetrachloride. Water Research, 2000, 34, 4161-4168.	11.3	17
94	Acclimation of anaerobic systems to biodegrade tetrachloroethene in the presence of carbon tetrachloride and chloroform. Water Research, 2000, 34, 171-178.	11.3	59
95	A Modeling and experimental study of light nonaqueous phase liquid (LNAPL) accumulation in wells and LNAPL recovery from wells. Water Resources Research, 2000, 36, 3535-3545.	4.2	19
96	Carbon Isotope Fractionation during Anaerobic Biodegradation of Toluene:Â Implications for Intrinsic Bioremediation. Environmental Science & Technology, 2000, 34, 892-896.	10.0	107
97	Carbon Isotope Effects Resulting from Equilibrium Sorption of Dissolved VOCs. Analytical Chemistry, 2000, 72, 5669-5672.	6.5	128
98	Removal of Perchloroethylene from a Layered Soil System by Steam Flushing. Ground Water Monitoring and Remediation, 1999, 19, 70-77.	0.8	23
99	Investigation and Remediation of a 1,2-Dichloroethane Spill Part I: Short and Long-Term Remediation Strategies. Ground Water Monitoring and Remediation, 1999, 19, 71-81.	0.8	7
100	Investigation and Remediation of a 1,2-Dichloroethane Spill Part II: Documentation of Natural Attenuation. Ground Water Monitoring and Remediation, 1999, 19, 82-88.	0.8	9
101	Contrasting carbon isotope fractionation during biodegradation of trichloroethylene and toluene: Implications for intrinsic bioremediation. Organic Geochemistry, 1999, 30, 813-820.	1.8	164
102	Modeling transient organic vapor transport in porous media with the dusty gas model. Advances in Water Resources, 1998, 22, 247-256.	3.8	47
103	Biodegradation of High Concentrations of Tetrachloroethene in a Continuous Flow Column System. Environmental Science & Technology, 1998, 32, 3579-3585.	10.0	37
104	The effect of temperature on capillary pressure-saturation relationships for air-water and perchloroethylene-water systems. Water Resources Research, 1998, 34, 2587-2597.	4.2	120
105	Estimation of Biokinetic Parameters for Unsaturated Soils. Journal of Environmental Engineering, ASCE, 1998, 124, 959-969.	1.4	3
106	Thermal variation of organic fluid properties and impact on thermal remediation feasibility. Journal of Soil Contamination, 1997, 6, 281-306.	0.5	39
107	Simulation of Bioventing for Soil and Ground-Water Remediation. Journal of Environmental Engineering, ASCE, 1996, 122, 1003-1012.	1.4	33
108	A method of characteristics model for equation of state compositional simulation of organic compounds in groundwater. Journal of Contaminant Hydrology, 1995, 17, 189-212.	3.3	15

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109	A fugacity model for soil vapor extraction. Journal of Soil Contamination, 1995, 4, 227-242.	0.5	3
110	Compositional simulation of groundwater contamination by organic compounds: 1. Model development and verification. Water Resources Research, 1993, 29, 1697-1708.	4.2	153
111	Compositional simulation of groundwater contamination by organic compounds: 2. Model applications. Water Resources Research, 1993, 29, 1709-1718.	4.2	63