

Charles J Werth

List of Publications by Year in descending order

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124
papers

5,549
citations

53794

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125
docs citations

125
times ranked

5059
citing authors

#	ARTICLE	IF	CITATIONS
1	Factors Impeding Replacement of Ion Exchange with (Electro)Catalytic Treatment for Nitrate Removal from Drinking Water. ACS ES&T Engineering, 2021, 1, 6-20.	7.6	32
2	Scalable Reactor Design for Electrocatalytic Nitrite Reduction with Minimal Mass Transfer Limitations. ACS ES&T Engineering, 2021, 1, 204-215.	7.6	8
3	The role of chemotaxis and efflux pumps on nitrate reduction in the toxic regions of a ciprofloxacin concentration gradient. ISME Journal, 2021, 15, 2920-2932.	9.8	7
4	Towards predicting DNAPL source zone formation to improve plume assessment: Using robust laboratory and numerical experiments to evaluate the relevance of retention curve characteristics. Journal of Hazardous Materials, 2021, 407, 124741.	12.4	10
5	Using MODFLOW and RT3D to simulate diffusion and reaction without discretizing low permeability zones. Journal of Contaminant Hydrology, 2021, 239, 103777.	3.3	8
6	Impact of antibiotic concentration gradients on nitrate reduction and antibiotic resistance in a microfluidic gradient chamber. Science of the Total Environment, 2021, 779, 146503.	8.0	7
7	Abiotic dechlorination in the presence of ferrous minerals. Journal of Contaminant Hydrology, 2021, 241, 103839.	3.3	4
8	Contamination Assessment and Site Management Tool (CAST): A Browser-Based Tool for Site Assessment. Ground Water, 2021, , .	1.3	4
9	Surfactant inhibition mechanisms of carbonate mineral dissolution in shale. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 625, 126857.	4.7	3
10	Geochemically induced shear slip in artificially fractured dolomite- and clay-cemented sandstone. International Journal of Greenhouse Gas Control, 2021, 111, 103448.	4.6	2
11	Advanced Geomechanical Model to Predict the Impact of CO ₂ -Induced Microstructural Alterations on the Cohesive-Frictional Behavior of Mt. Simon Sandstone. Minerals (Basel, Switzerland), 2021, 11, 38.	2.0	1
12	Reactive alteration of a Mt. Simon Sandstone due to CO ₂ -rich brine displacement. Geochimica Et Cosmochimica Acta, 2020, 271, 227-247.	3.9	19
13	CO ₂ induced changes in Mount Simon sandstone: Understanding links to post CO ₂ injection monitoring, seismicity, and reservoir integrity. International Journal of Greenhouse Gas Control, 2020, 100, 103109.	4.6	11
14	PdAg Alloy Nanocatalysts: Toward Economically Viable Nitrite Reduction in Drinking Water. ACS Catalysis, 2020, 10, 7979-7989.	11.2	64
15	Cu _x Nanoalloy Catalysts Achieve Near 100% Selectivity for Aqueous Nitrite Reduction to NH ₃ . ACS Catalysis, 2020, 10, 7915-7921.	11.2	69
16	Surfactant Adsorption on Shale Samples: Experiments and an Additive Model. Energy & Fuels, 2020, 34, 5436-5443.	5.1	19
17	Geochemical and geomechanical alteration of siliciclastic reservoir rock by supercritical CO ₂ -saturated brine formed during geological carbon sequestration. International Journal of Greenhouse Gas Control, 2019, 88, 251-260.	4.6	29
18	Motility of <i>Shewanella oneidensis</i> MR-1 Allows for Nitrate Reduction in the Toxic Region of a Ciprofloxacin Concentration Gradient in a Microfluidic Reactor. Environmental Science & Technology, 2019, 53, 2778-2787.	10.0	16

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19	Adaptive Evolution of <i>Escherichia coli</i> to Ciprofloxacin in Controlled Stress Environments: Contrasting Patterns of Resistance in Spatially Varying versus Uniformly Mixed Concentration Conditions. <i>Environmental Science & Technology</i> , 2019, 53, 7996-8005.	10.0	11
20	Contributions of biotic and abiotic pathways to anaerobic trichloroethene transformation in low permeability source zones. <i>Journal of Contaminant Hydrology</i> , 2019, 224, 103480.	3.3	17
21	A review of geochemical–mechanical impacts in geological carbon storage reservoirs. , 2019, 9, 474-504.		32
22	Diffusion-Based Recycling of Flavins Allows <i>Shewanella oneidensis</i> MR-1 To Yield Energy from Metal Reduction Across Physical Separations. <i>Environmental Science & Technology</i> , 2019, 53, 3480-3487.	10.0	26
23	Quantification of Uncertainties from Image Processing and Analysis in Laboratory-Scale DNAPL Release Studies Evaluated by Reflective Optical Imaging. <i>Water (Switzerland)</i> , 2019, 11, 2274.	2.7	7
24	Modeling CO_2 -Induced Alterations in Mt. Simon Sandstone via Nanomechanics. <i>Rock Mechanics and Rock Engineering</i> , 2019, 52, 1353-1375.	5.4	20
25	Mixing-Limited Reactions in Porous Media. <i>Transport in Porous Media</i> , 2019, 130, 157-182.	2.6	61
26	Mechanisms for Abiotic Dechlorination of Trichloroethene by Ferrous Minerals under Oxidic and Anoxic Conditions in Natural Sediments. <i>Environmental Science & Technology</i> , 2018, 52, 13747-13755.	10.0	64
27	Geobiology reveals how human kidney stones dissolve in vivo. <i>Scientific Reports</i> , 2018, 8, 13731.	3.3	50
28	Intracellular versus extracellular accumulation of Hexavalent chromium reduction products by <i>Geobacter sulfurreducens</i> PCA. <i>Environmental Pollution</i> , 2018, 240, 485-492.	7.5	50
29	Critical Review: DNA Aptasensors, Are They Ready for Monitoring Organic Pollutants in Natural and Treated Water Sources?. <i>Environmental Science & Technology</i> , 2018, 52, 8989-9007.	10.0	53
30	Environmental Impacts of Replacing Slickwater with Low/No-Water Fracturing Fluids for Shale Gas Recovery. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 7515-7524.	6.7	18
31	Ligand Design for Isomer-Selective Oxorhenium(V) Complex Synthesis. <i>Inorganic Chemistry</i> , 2017, 56, 1757-1769.	4.0	12
32	PdAu Alloy Nanoparticle Catalysts: Effective Candidates for Nitrite Reduction in Water. <i>ACS Catalysis</i> , 2017, 7, 3268-3276.	11.2	89
33	Effects of Mineral Surface Properties on Supercritical CO_2 Wettability in a Siliciclastic Reservoir. <i>Energy & Fuels</i> , 2017, 31, 5275-5285.	5.1	41
34	Abiotic dechlorination of chlorinated ethenes in natural clayey soils: Impacts of mineralogy and temperature. <i>Journal of Contaminant Hydrology</i> , 2017, 206, 10-17.	3.3	13
35	Nanowires of <i>Geobacter sulfurreducens</i> Require Redox Cofactors to Reduce Metals in Pore Spaces Too Small for Cell Passage. <i>Environmental Science & Technology</i> , 2017, 51, 11660-11668.	10.0	34
36	Real rock-microfluidic flow cell: A test bed for real-time in situ analysis of flow, transport, and reaction in a subsurface reactive transport environment. <i>Journal of Contaminant Hydrology</i> , 2017, 204, 28-39.	3.3	36

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37	Catalytic Nitrate Removal in a Trickle Bed Reactor: Direct Drinking Water Treatment. Journal - American Water Works Association, 2017, 109, .	0.3	14
38	Catalytic Denitrification in a Trickle Bed Reactor: Ion Exchange Waste Brine Treatment. Journal - American Water Works Association, 2017, 109, E129.	0.3	15
39	Evaluation of a hybrid ion exchange-catalyst treatment technology for nitrate removal from drinking water. Water Research, 2016, 96, 177-187.	11.3	84
40	A New Bioinspired Perchlorate Reduction Catalyst with Significantly Enhanced Stability via Rational Tuning of Rhenium Coordination Chemistry and Heterogeneous Reaction Pathway. Environmental Science & Technology, 2016, 50, 5874-5881.	10.0	21
41	Scalable subsurface inverse modeling of huge data sets with an application to tracer concentration breakthrough data from magnetic resonance imaging. Water Resources Research, 2016, 52, 5213-5231.	4.2	30
42	Configuration Control in the Synthesis of Homo- and Heteroleptic Bis(oxazolinyphenolato/thiazolinyphenolato) Chelate Ligand Complexes of Oxorhenium(V): Isomer Effect on Ancillary Ligand Exchange Dynamics and Implications for Perchlorate Reduction Catalysis. Inorganic Chemistry, 2016, 55, 2597-2611.	4.0	26
43	A hybrid pore-scale and continuum-scale model for solute diffusion, reaction, and biofilm development in porous media. Water Resources Research, 2015, 51, 1846-1859.	4.2	33
44	An Incompressible, Depth-Averaged Lattice Boltzmann Method for Liquid Flow in Microfluidic Devices with Variable Aperture. Computation, 2015, 3, 600-615.	2.0	10
45	Performance and life cycle environmental benefits of recycling spent ion exchange brines by catalytic treatment of nitrate. Water Research, 2015, 80, 267-280.	11.3	71
46	Metabolism-Induced CaCO ₃ Biomineralization During Reactive Transport in a Micromodel: Implications for Porosity Alteration. Environmental Science & Technology, 2015, 49, 12094-12104.	10.0	36
47	Highly active Pd-In/mesoporous alumina catalyst for nitrate reduction. Journal of Hazardous Materials, 2015, 286, 425-431.	12.4	57
48	Selective Aptamers for Detection of Estradiol and Ethynylestradiol in Natural Waters. Environmental Science & Technology, 2015, 49, 9905-9913.	10.0	48
49	Immobilization of Selenite via Two Parallel Pathways during In Situ Bioremediation. Environmental Science & Technology, 2015, 49, 4543-4550.	10.0	19
50	Mechanism and Mitigation of the Decomposition of an Oxorhenium Complex-Based Heterogeneous Catalyst for Perchlorate Reduction in Water. Environmental Science & Technology, 2015, 49, 12932-12940.	10.0	22
51	Bioinspired Complex-Nanoparticle Hybrid Catalyst System for Aqueous Perchlorate Reduction: Rhenium Speciation and Its Influence on Catalyst Activity. ACS Catalysis, 2015, 5, 511-522.	11.2	45
52	Heterogeneous Catalytic Reduction for Water Purification. , 2014, , 339-349.		0
53	Adaptation of Delftia acidovorans for degradation of 2,4-dichlorophenoxyacetate in a microfluidic porous medium. Biodegradation, 2014, 25, 595-604.	3.0	11
54	Environmental risk analysis of hazardous material rail transportation. Journal of Hazardous Materials, 2014, 264, 560-569.	12.4	82

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55	Palladium Nanoparticles Encapsulated in Core-Shell Silica: A Structured Hydrogenation Catalyst with Enhanced Activity for Reduction of Oxyanion Water Pollutants. <i>ACS Catalysis</i> , 2014, 4, 3551-3559.	11.2	79
56	Influence of Mg ²⁺ on CaCO ₃ precipitation during subsurface reactive transport in a homogeneous silicon-etched pore network. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 135, 321-335.	3.9	35
57	Pore-Scale Simulations of Gas Displacing Liquid in a Homogeneous Pore Network Using the Lattice Boltzmann Method. <i>Transport in Porous Media</i> , 2013, 99, 555-580.	2.6	101
58	Structure Sensitivity Study of Waterborne Contaminant Hydrogenation Using Shape- and Size-Controlled Pd Nanoparticles. <i>ACS Catalysis</i> , 2013, 3, 453-463.	11.2	74
59	Comparative Assessment of the Environmental Sustainability of Existing and Emerging Perchlorate Treatment Technologies for Drinking Water. <i>Environmental Science & Technology</i> , 2013, 47, 4644-4652.	10.0	67
60	Application of a Re-Pd bimetallic catalyst for treatment of perchlorate in waste ion-exchange regenerant brine. <i>Water Research</i> , 2013, 47, 91-101.	11.3	62
61	Elucidation of Nitrate Reduction Mechanisms on a Pd-In Bimetallic Catalyst using Isotope Labeled Nitrogen Species. <i>ChemCatChem</i> , 2013, 5, 313-321.	3.7	83
62	An improved pore-scale biofilm model and comparison with a microfluidic flow cell experiment. <i>Water Resources Research</i> , 2013, 49, 8370-8382.	4.2	57
63	Impacts of Geochemical Reactions on Geologic Carbon Sequestration. <i>Environmental Science & Technology</i> , 2013, 47, 3-8.	10.0	133
64	Pore-scale evaluation of uranyl phosphate precipitation in a model groundwater system. <i>Water Resources Research</i> , 2013, 49, 874-890.	4.2	38
65	Enhanced Activity and Selectivity of Carbon Nanofiber Supported Pd Catalysts for Nitrite Reduction. <i>Environmental Science & Technology</i> , 2012, 46, 2847-2855.	10.0	98
66	Pore-scale simulation of mixing-induced calcium carbonate precipitation and dissolution in a microfluidic pore network. <i>Water Resources Research</i> , 2012, 48, .	4.2	126
67	Critical Review of Pd-Based Catalytic Treatment of Priority Contaminants in Water. <i>Environmental Science & Technology</i> , 2012, 46, 3655-3670.	10.0	373
68	Aqueous N ₂ O Reduction with H ₂ Over Pd-Based Catalyst: Mechanistic Insights From Experiment and Simulation. <i>Topics in Catalysis</i> , 2012, 55, 300-312.	2.8	11
69	NAPL Source Zone Depletion Model and Its Application to Railroad Tank Car Spills. <i>Ground Water</i> , 2012, 50, 627-632.	1.3	4
70	A New Geometric Method Based on Two-Dimensional Transmission Electron Microscopy for Analysis of Interior versus Exterior Pd Loading on Hollow Carbon Nanofibers. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 1082-1087.	4.6	3
71	A review of non-invasive imaging methods and applications in contaminant hydrogeology research. <i>Journal of Contaminant Hydrology</i> , 2010, 113, 1-24.	3.3	174
72	Using dispersivity values to quantify the effects of pore-scale flow focusing on enhanced reaction along a transverse mixing zone. <i>Advances in Water Resources</i> , 2010, 33, 525-535.	3.8	33

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73	Effects of Pore-Scale Heterogeneity and Transverse Mixing on Bacterial Growth in Porous Media. Environmental Science & Technology, 2010, 44, 3085-3092.	10.0	67
74	Pore-Scale Study of Transverse Mixing Induced CaCO ₃ Precipitation and Permeability Reduction in a Model Subsurface Sedimentary System. Environmental Science & Technology, 2010, 44, 7833-7838.	10.0	123
75	Potential contributions of asphalt and coal tar to black carbon quantification in urban dust, soils, and sediments. Geochimica Et Cosmochimica Acta, 2010, 74, 6830-6840.	3.9	17
76	Enhancement of Oxyanion and Diatrizoate Reduction Kinetics Using Selected Azo Dyes on Pd-Based Catalysts. Environmental Science & Technology, 2010, 44, 1773-1779.	10.0	33
77	Surface and Interfacial Properties of Nonaqueous-Phase Liquid Mixtures Released to the Subsurface at the Hanford Site. Vadose Zone Journal, 2009, 8, 343-351.	2.2	10
78	Numerical and experimental investigation of DNAPL removal mechanisms in a layered porous medium by means of soil vapor extraction. Journal of Contaminant Hydrology, 2009, 109, 1-13.	3.3	18
79	Oxidative Regeneration of Sulfide-fouled Catalysts for Water Treatment. Catalysis Letters, 2009, 132, 174-181.	2.6	5
80	The Selectivity and Sustainability of a Pd-In/Al ₂ O ₃ Catalyst in a Packed-Bed Reactor: The Effect of Solution Composition. Catalysis Letters, 2009, 130, 56-62.	2.6	49
81	An environmental screening model to assess the consequences to soil and groundwater from railroad-tank-car spills of light non-aqueous phase liquids. Journal of Hazardous Materials, 2009, 165, 332-344.	12.4	28
82	Catalytic Nitrate and Nitrite Reduction with Pd-Cu/PVP Colloids in Water: Composition, Structure, and Reactivity Correlations. Journal of Physical Chemistry C, 2009, 113, 8177-8185.	3.1	88
83	Estimation of Interfacial Tension between Organic Liquid Mixtures and Water. Environmental Science & Technology, 2009, 43, 7754-7761.	10.0	33
84	Heterogeneous Catalytic Reduction for Water Purification: Nanoscale Effects on Catalytic Activity, Selectivity, and Sustainability. , 2009, , 269-279.		3
85	Impact of nonaqueous phase liquid (NAPL) source zone architecture on mass removal mechanisms in strongly layered heterogeneous porous media during soil vapor extraction. Journal of Contaminant Hydrology, 2008, 100, 58-71.	3.3	18
86	Evaluation of simplified mass transfer models to simulate the impacts of source zone architecture on nonaqueous phase liquid dissolution in heterogeneous porous media. Journal of Contaminant Hydrology, 2008, 102, 49-60.	3.3	52
87	Evaluation of the Effects of Porous Media Structure on Mixing-Controlled Reactions Using Pore-Scale Modeling and Micromodel Experiments. Environmental Science & Technology, 2008, 42, 3185-3193.	10.0	192
88	Numerical simulation of water flow in three dimensional heterogeneous porous media observed in a magnetic resonance imaging experiment. Water Resources Research, 2008, 44, .	4.2	23
89	The Role of Condensed Carbonaceous Materials on the Sorption of Hydrophobic Organic Contaminants in Subsurface Sediments. Environmental Science & Technology, 2008, 42, 1458-1464.	10.0	37
90	Pore-scale simulation of dispersion and reaction along a transverse mixing zone in two-dimensional porous media. Water Resources Research, 2007, 43, .	4.2	73

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91	Regeneration of Sulfur-Fouled Bimetallic Pd-Based Catalysts. <i>Environmental Science & Technology</i> , 2007, 41, 5491-5497.	10.0	82
92	Characterization of NAPL Source Zone Architecture and Dissolution Kinetics in Heterogeneous Porous Media Using Magnetic Resonance Imaging. <i>Environmental Science & Technology</i> , 2007, 41, 3672-3678.	10.0	49
93	Comparison of continuum and pore-scale models of nutrient biodegradation under transverse mixing conditions. <i>Advances in Water Resources</i> , 2007, 30, 1421-1431.	3.8	63
94	Effect of soil moisture dynamics on dense nonaqueous phase liquid (DNAPL) spill zone architecture in heterogeneous porous media. <i>Journal of Contaminant Hydrology</i> , 2007, 90, 159-183.	3.3	12
95	Effects of Natural Water Ions and Humic Acid on Catalytic Nitrate Reduction Kinetics Using an Alumina Supported Pd ⁰ /Cu Catalyst. <i>Environmental Science & Technology</i> , 2006, 40, 3075-3081.	10.0	153
96	Enhanced mixing and reaction through flow focusing in heterogeneous porous media. <i>Water Resources Research</i> , 2006, 42, .	4.2	137
97	Chitin and corncobs as electron donor sources for the reductive dechlorination of tetrachloroethene. <i>Water Research</i> , 2006, 40, 2125-2134.	11.3	27
98	Visualization of colloid transport through heterogeneous porous media using magnetic resonance imaging. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2005, 265, 2-10.	4.7	39
99	Structural Changes of Bimetallic PdX/Cu (1-X) Nanocatalysts Developed for Nitrate Reduction of Drinking Water. <i>Materials Research Society Symposia Proceedings</i> , 2005, 876, 1.	0.1	2
100	Evaluation of Methods To Obtain Geosorbent Fractions Enriched in Carbonaceous Materials That Affect Hydrophobic Organic Chemical Sorption. <i>Environmental Science & Technology</i> , 2005, 39, 3279-3288.	10.0	21
101	Visualization and Modeling of Polystyrol Colloid Transport in a Silicon Micromodel. <i>Vadose Zone Journal</i> , 2004, 3, 434-443.	2.2	47
102	Web-based interactive simulation of groundwater pollutant fate and transport. <i>Computer Applications in Engineering Education</i> , 2004, 12, 75-83.	3.4	14
103	Slow Desorption Mechanisms of Volatile Organic Chemical Mixtures in Soil and Sediment Micropores. <i>Environmental Science & Technology</i> , 2004, 38, 440-448.	10.0	33
104	Visualization and Modeling of Polystyrol Colloid Transport in a Silicon Micromodel. <i>Vadose Zone Journal</i> , 2004, 3, 434-443.	2.2	6
105	Analysis of pore-scale nonaqueous phase liquid dissolution in etched silicon pore networks. <i>Water Resources Research</i> , 2003, 39, .	4.2	98
106	Pore-Scale Analysis of Anaerobic Halorespiring Bacterial Growth along the Transverse Mixing Zone of an Etched Silicon Pore Network. <i>Environmental Science & Technology</i> , 2003, 37, 5617-5624.	10.0	50
107	Modeling the Influence of Water Content on Soil Vapor Extraction. <i>Vadose Zone Journal</i> , 2003, 2, 368-381.	2.2	23
108	Modeling the Influence of Water Content on Soil Vapor Extraction. <i>Vadose Zone Journal</i> , 2003, 2, 368.	2.2	0

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109	Modeling the Influence of Water Content on Soil Vapor Extraction. <i>Vadose Zone Journal</i> , 2003, 2, 368-381.	2.2	5
110	A Magnetic Resonance Imaging Study of Dense Nonaqueous Phase Liquid Dissolution from Angular Porous Media. <i>Environmental Science & Technology</i> , 2002, 36, 3310-3317.	10.0	76
111	Modeling the effects of concentration history on the slow desorption of trichloroethene from a soil at 100% relative humidity. <i>Journal of Contaminant Hydrology</i> , 2002, 54, 307-327.	3.3	20
112	Modeling sorption isotherms of volatile organic chemical mixtures in model and natural solids. <i>Environmental Toxicology and Chemistry</i> , 2002, 21, 1377-1383.	4.3	40
113	Pore-scale modeling of dissolution from variably distributed nonaqueous phase liquid blobs. <i>Water Resources Research</i> , 2001, 37, 2951-2963.	4.2	54
114	Evaluating Competitive Sorption Mechanisms of Volatile Organic Compounds in Soils and Sediments Using Polymers and Zeolites. <i>Environmental Science & Technology</i> , 2001, 35, 568-574.	10.0	83
115	Evaluation of Different Polymeric Organic Materials for Creating Conditions That Favor Reductive Processes in Groundwater. <i>Bioremediation Journal</i> , 2001, 5, 169-181.	2.0	17
116	Structural Evaluation of Slow Desorbing Sites in Model and Natural Solids Using Temperature Stepped Desorption Profiles. 1. Model Development. <i>Environmental Science & Technology</i> , 2000, 34, 2959-2965.	10.0	21
117	Structural Evaluation of Slow Desorbing Sites in Model and Natural Solids Using Temperature Stepped Desorption Profiles. 2. Column Results. <i>Environmental Science & Technology</i> , 2000, 34, 2966-2972.	10.0	13
118	Binary Desorption Isotherms of TCE and PCE from Silica Gel and Natural Solids. <i>Environmental Science & Technology</i> , 2000, 34, 4341-4347.	10.0	19
119	Counter-Diffusion of Isotopically Labeled Trichloroethylene in Silica Gel and Geosorbent Micropores: Column Results. <i>Environmental Science & Technology</i> , 1999, 33, 730-736.	10.0	12
120	Counter-Diffusion of Isotopically Labeled Trichloroethylene in Silica Gel and Geosorbent Micropores: Model Development. <i>Environmental Science & Technology</i> , 1999, 33, 2178-2185.	10.0	9
121	Effects of Temperature on Trichloroethylene Desorption from Silica Gel and Natural Sediments. 1. Isotherms. <i>Environmental Science & Technology</i> , 1997, 31, 689-696.	10.0	62
122	Effects of Temperature on Trichloroethylene Desorption from Silica Gel and Natural Sediments. 2. Kinetics. <i>Environmental Science & Technology</i> , 1997, 31, 697-703.	10.0	101
123	Effects of grain-scale mass transfer on the transport of volatile organics through sediments: 1. Model development. <i>Water Resources Research</i> , 1997, 33, 2713-2726.	4.2	83
124	Effects of grain-scale mass transfer on the transport of volatile organics through sediments: 2. Column results. <i>Water Resources Research</i> , 1997, 33, 2727-2740.	4.2	70