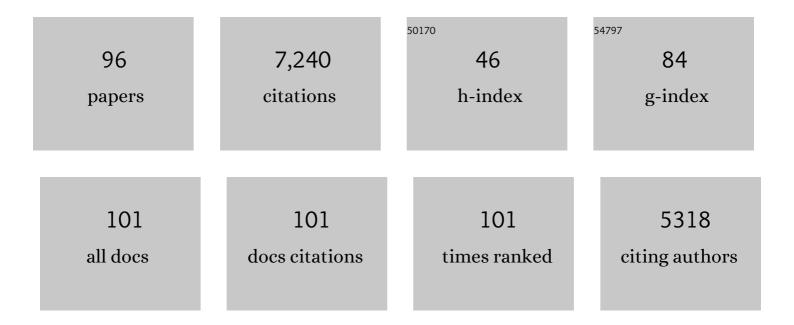
Stefan B Haderlein

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Reduction of Substituted Nitrobenzenes by Fe(II) in Aqueous Mineral Suspensions. Environmental Science & Technology, 1995, 29, 2396-2404.	4.6	423
2	Specific Adsorption of Nitroaromatic Explosives and Pesticides to Clay Minerals. Environmental Science & amp; Technology, 1996, 30, 612-622.	4.6	374
3	Reactivity of Fe(II)-Bearing Minerals toward Reductive Transformation of Organic Contaminants. Environmental Science & Technology, 2004, 38, 799-807.	4.6	345
4	Compound-specific stable isotope analysis of organic contaminants in natural environments: a critical review of the state of the art, prospects, and future challenges. Analytical and Bioanalytical Chemistry, 2004, 378, 283-300.	1.9	319
5	Magnetite and Green Rust: Synthesis, Properties, and Environmental Applications of Mixed-Valent Iron Minerals. Chemical Reviews, 2018, 118, 3251-3304.	23.0	319
6	Complete Reduction of TNT and Other (Poly)nitroaromatic Compounds under Iron-Reducing Subsurface Conditions. Environmental Science & amp; Technology, 1999, 33, 1479-1487.	4.6	254
7	Reduction of Polyhalogenated Methanes by Surface-Bound Fe(II) in Aqueous Suspensions of Iron Oxides. Environmental Science & Technology, 2002, 36, 1734-1741.	4.6	251
8	Adsorption of substituted nitrobenzenes and nitrophenols to mineral surfaces. Environmental Science & Scie	4.6	248
9	Reactivity of Fe(II) Species Associated with Clay Minerals. Environmental Science & Technology, 2003, 37, 519-528.	4.6	219
10	New Evaluation Scheme for Two-Dimensional Isotope Analysis to Decipher Biodegradation Processes:Â Application to Groundwater Contamination by MTBE. Environmental Science & Technology, 2005, 39, 1018-1029.	4.6	184
11	Natural Organic Matter as Reductant for Chlorinated Aliphatic Pollutants. Environmental Science & Technology, 2003, 37, 2714-2719.	4.6	171
12	MTBE Oxidation by Conventional Ozonation and the Combination Ozone/Hydrogen Peroxide:Â Efficiency of the Processes and Bromate Formation. Environmental Science & Technology, 2001, 35, 4252-4259.	4.6	153
13	Biomineralization of lepidocrocite and goethite by nitrate-reducing Fe(II)-oxidizing bacteria: Effect of pH, bicarbonate, phosphate, and humic acids. Geochimica Et Cosmochimica Acta, 2010, 74, 3721-3734.	1.6	139
14	Fenton oxidation to remediate PAHs in contaminated soils: A critical review of major limitations and counter-strategies. Science of the Total Environment, 2016, 569-570, 179-190.	3.9	137
15	Microbial degradation of methyl tert-butyl ether and tert-butyl alcohol in the subsurface. Journal of Contaminant Hydrology, 2004, 70, 173-203.	1.6	134
16	In SituSpectroscopic Investigations of Adsorption Mechanisms of Nitroaromatic Compounds at Clay Minerals. Environmental Science & Technology, 1997, 31, 240-247.	4.6	133
17	Aqueous Speciation and 1-Octanolâ^'Water Partitioning of Tributyl- and Triphenyltin:Â Effect of pH and Ion Composition. Environmental Science & Technology, 1997, 31, 2596-2602.	4.6	133
18	Oxidation of Substituted Anilines by Aqueous MnO2:Â Effect of Co-Solutes on Initial and Quasi-Steady-State Kinetics. Environmental Science & Technology, 1997, 31, 2642-2649.	4.6	129

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19	Compound-Specific Carbon Isotope Analysis of Volatile Organic Compounds in the Low-Microgram per Liter Range. Analytical Chemistry, 2003, 75, 5575-5583.	3.2	123
20	Characterization of Predominant Reductants in an Anaerobic Leachate-Contaminated Aquifer by Nitroaromatic Probe Compounds. Environmental Science & amp; Technology, 1998, 32, 23-31.	4.6	121
21	Mechanisms and Products of Surface-Mediated Reductive Dehalogenation of Carbon Tetrachloride by Fe(II) on Goethite. Environmental Science & Technology, 2004, 38, 2058-2066.	4.6	121
22	Electron Transfer between Iron Minerals and Quinones: Estimating the Reduction Potential of the Fe(II)-Goethite Surface from AQDS Speciation. Environmental Science & Technology, 2013, 47, 14161-14168.	4.6	109
23	Potential effects of biochar on the availability of phosphorus — mechanistic insights. Geoderma, 2016, 277, 83-90.	2.3	106
24	Compound-Specific Chlorine Isotope Analysis: A Comparison of Gas Chromatography/Isotope Ratio Mass Spectrometry and Gas Chromatography/Quadrupole Mass Spectrometry Methods in an Interlaboratory Study. Analytical Chemistry, 2011, 83, 7624-7634.	3.2	101
25	Anaerobic Degradation of Benzene, Toluene, Ethylbenzene, and o -Xylene in Sediment-Free Iron-Reducing Enrichment Cultures. Applied and Environmental Microbiology, 2005, 71, 3355-3358.	1.4	99
26	A new approach to determine method detection limits for compound-specific isotope analysis of volatile organic compounds. Rapid Communications in Mass Spectrometry, 2006, 20, 3639-3648.	0.7	96
27	Sorption of Organotin Biocides to Mineral Surfaces. Environmental Science & Technology, 1997, 31, 2603-2609.	4.6	94
28	Changes in the Enantiomeric Ratio of (R)- to (S)-Mecoprop Indicate in Situ Biodegradation of This Chiral Herbicide in a Polluted Aquifer. Environmental Science & Technology, 1998, 32, 2070-2076.	4.6	84
29	Simultaneous Determination of Fuel Oxygenates and BTEX Using Direct Aqueous Injection Gas Chromatography Mass Spectrometry (DAI-GC/MS). Environmental Science & Technology, 2002, 36, 2054-2059.	4.6	80
30	Reductive Dechlorination of TCE by Chemical Model Systems in Comparison to Dehalogenating Bacteria: Insights from Dual Element Isotope Analysis (¹³ C/ ¹² C,) Tj ETQq0 0 0 rgBT /C)ve tlo ck 10) Tf 50 297 T
31	Complex Formation of Soil Minerals with Nitroaromatic Explosives and other Ï€â€Acceptors. Soil Science Society of America Journal, 1998, 62, 369-378.	1.2	72
32	Sorption of Heterocyclic Organic Compounds to Reference Soils:Â Column Studies for Process Identification. Environmental Science & Technology, 2006, 40, 5962-5970.	4.6	71
33	Laboratory and Field Scale Evaluation of Geochemical Controls on Groundwater Transport of Nitroaromatic Ammunition Residues. Environmental Science & Technology, 1999, 33, 2593-2600.	4.6	69
34	Nonlinear sorption and nonequilibrium solute transport in aggregated porous media: Experiments, process identification and modeling. Journal of Contaminant Hydrology, 1998, 31, 373-407.	1.6	67
35	A biogeochemical–hydrological framework for the role of redox-active compounds in aquatic systems. Nature Geoscience, 2021, 14, 264-272.	5.4	67
36	Chlorine Isotope Analysis of Organic Contaminants Using GC–qMS: Method Optimization and Comparison of Different Evaluation Schemes. Environmental Science & Technology, 2011, 45, 5279-5286.	4.6	66

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37	LFERs for Soil Organic Carbonâ^'Water Distribution Coefficients (<i>K</i> _{OC}) at Environmentally Relevant Sorbate Concentrations. Environmental Science & Technology, 2009, 43, 3094-3100.	4.6	64
38	Carbon Isotope Fractionation in the Reductive Dehalogenation of Carbon Tetrachloride at Iron (Hydr)Oxide and Iron Sulfide Minerals. Environmental Science & Technology, 2005, 39, 5634-5641.	4.6	63
39	Biodegradability and groundwater pollutant potential of organic anti-freeze liquids used in borehole heat exchangers. Geothermics, 2007, 36, 348-361.	1.5	60
40	Aggregation-dependent electron transfer via redox-active biochar particles stimulate microbial ferrihydrite reduction. Science of the Total Environment, 2020, 703, 135515.	3.9	57
41	Delineation of Multiple Chlorinated Ethene Sources in an Industrialized Area—A Forensic Field Study Using Compound-Specific Isotope Analysis. Environmental Science & Technology, 2009, 43, 2701-2707.	4.6	56
42	Flow-through experiments on water–rock interactions in a sandstone caused by CO2 injection at pressures and temperatures mimicking reservoir conditions. Applied Geochemistry, 2015, 58, 136-146.	1.4	55
43	Environmental Processes Influencing the Rate of Abiotic Reduction of Nitroaromatic Compounds in the Subsurface. , 1995, , 199-225.		53
44	Heterogeneous oxidation of Fe(II) on iron oxides in aqueous systems: Identification and controls of Fe(III) product formation. Geochimica Et Cosmochimica Acta, 2012, 91, 171-186.	1.6	52
45	Environmental Factors Influencing Sorption of Heterocyclic Aromatic Compounds to Soil. Environmental Science & Technology, 2007, 41, 3172-3178.	4.6	51
46	Effects of Zwitterionic Buffers on Sorption of Ferrous Iron at Goethite and Its Oxidation by CCl ₄ . Environmental Science & Technology, 2011, 45, 3355-3360.	4.6	49
47	AQDS and Redox-Active NOM Enables Microbial Fe(III)-Mineral Reduction at cm-Scales. Environmental Science & Technology, 2020, 54, 4131-4139.	4.6	49
48	Analysis of fuel oxygenates in the environment. Analyst, The, 2001, 126, 405-413.	1.7	45
49	Occurrence and fate modeling of MTBE and BTEX compounds in a Swiss Lake used as drinking water supply. Water Research, 2004, 38, 1520-1529.	5.3	41
50	Aerobic Biodegradation of Chlorinated Ethenes in a Fractured Bedrock Aquifer: Quantitative Assessment by Compound-Specific Isotope Analysis (CSIA) and Reactive Transport Modeling. Environmental Science & Technology, 2009, 43, 7458-7464.	4.6	41
51	Compound-Specific Factors Influencing Sorption Nonlinearity in Natural Organic Matter. Environmental Science & Technology, 2008, 42, 5897-5903.	4.6	40
52	Polar Fuel Constituents:Â Compound Identification and Equilibrium Partitioning between Nonaqueous Phase Liquids and Water. Environmental Science & Technology, 2002, 36, 4074-4080.	4.6	39
53	Diffusive Fractionation of BTEX and Chlorinated Ethenes in Aqueous Solution: Quantification of Spatial Isotope Gradients. Environmental Science & amp; Technology, 2014, 48, 6141-6150.	4.6	38
54	Characteristics and environmental response of secondary minerals in AMD from Dabaoshan Mine, South China. Ecotoxicology and Environmental Safety, 2018, 155, 50-58.	2.9	37

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55	Electron Hopping Enables Rapid Electron Transfer between Quinone-/Hydroquinone-Containing Organic Molecules in Microbial Iron(III) Mineral Reduction. Environmental Science & Technology, 2020, 54, 10646-10653.	4.6	34
56	Pollutant Reduction in Heterogeneous Fe(II)-Fe(III) Systems. ACS Symposium Series, 1999, , 342-357.	0.5	30
57	Sorption of methyl tert-butyl ether (MTBE) and tert-butyl alcohol (TBA) to synthetic resins. Water Research, 2005, 39, 4164-4176.	5.3	30
58	Effect of water content on solute transport in a porous medium containing reactive micro-aggregates. Journal of Contaminant Hydrology, 1998, 33, 211-230.	1.6	28
59	Effects of Native Organic Material and Water on Sorption Properties of Reference Diesel Soot. Environmental Science & Technology, 2009, 43, 3187-3193.	4.6	27
60	Practical issues relating to soil column chromatography for sorption parameter determination. Chemosphere, 2010, 80, 787-793.	4.2	27
61	Treatment of multi-dentate surface complexes and diffuse layer implementation in various speciation codes. Applied Geochemistry, 2015, 55, 128-137.	1.4	27
62	Characterization of Sorbent Properties of Soil Organic Matter and Carbonaceous Geosorbents Using <i>n</i> -Alkanes and Cycloalkanes as Molecular Probes. Environmental Science & Technology, 2009, 43, 393-400.	4.6	26
63	Chemical changes in fluid composition due to CO2 injection in the Altmark gas field: preliminary results from batch experiments. Environmental Earth Sciences, 2012, 67, 385-394.	1.3	26
64	Simulation of nonlinear sorption of N-heterocyclic organic contaminates in soil columns. Journal of Contaminant Hydrology, 2009, 107, 58-65.	1.6	25
65	Effects of Sorption on Redox Properties of Natural Organic Matter. Environmental Science & Technology, 2019, 53, 14319-14328.	4.6	25
66	Capillary electrophoresis-mass spectrometry for the direct analysis of glyphosate: method development and application to beer beverages and environmental studies. Analytical and Bioanalytical Chemistry, 2020, 412, 4967-4983.	1.9	24
67	Experimental Determination of Isotope Enrichment Factors – Bias from Mass Removal by Repetitive Sampling. Environmental Science & Technology, 2017, 51, 1527-1536.	4.6	21
68	High-pH and anoxic conditions during soil organic matter extraction increases its electron-exchange capacity and ability to stimulate microbial Fe(III) reduction by electron shuttling. Biogeosciences, 2020, 17, 683-698.	1.3	20
69	Reduction of Prussian Blue by the two iron-reducing microorganisms Geobacter metallireducens and Shewanella alga. Environmental Microbiology, 2006, 8, 362-367.	1.8	19
70	Resiliency of Stable Isotope Fractionation (δ ¹³ C and δ ³⁷ Cl) of Trichloroethene to Bacterial Growth Physiology and Expression of Key Enzymes. Environmental Science & Technology, 2015, 49, 13230-13237.	4.6	19
71	New Evaluation Scheme for Two-Dimensional Isotope Analysis to Decipher Biodegradation Processes:Â Application to Groundwater Contamination by MTBE. Environmental Science & Technology, 2005, 39, 7344-7344.	4.6	18
72	Use and Occurrence of Fuel Oxygenates in Europe. ACS Symposium Series, 2001, , 58-79.	0.5	17

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73	Introduction to Aquatic Redox Chemistry. ACS Symposium Series, 2011, , 1-14.	0.5	16
74	Preferential Sorption of Tannins at Aluminum Oxide Affects the Electron Exchange Capacities of Dissolved and Sorbed Humic Acid Fractions. Environmental Science & Technology, 2020, 54, 1837-1847.	4.6	16
75	Biochar as electron donor for reduction of N2O by Paracoccus denitrificans. FEMS Microbiology Ecology, 2020, 96, .	1.3	14
76	Integrated Carbon and Chlorine Isotope Modeling: Applications to Chlorinated Aliphatic Hydrocarbons Dechlorination. Environmental Science & Technology, 2013, 47, 130122142002006.	4.6	12
77	Electron Transfer Between Sulfide and Humic Acid: Electrochemical Evaluation of the Reactivity of Sigma-Aldrich Humic Acid Toward Sulfide. Aquatic Geochemistry, 2016, 22, 117-130.	1.5	12
78	Spherical Clay Conglomerates:Â A Novel Stationary Phase for Solid-Phase Extraction and "Reversed-Phase―Liquid Chromatography. Analytical Chemistry, 1999, 71, 2171-2178.	3.2	11
79	Stable carbon isotope analysis of polyphosphonate complexing agents by anion chromatography coupled to isotope ratio mass spectrometry: method development and application. Analytical and Bioanalytical Chemistry, 2020, 412, 4827-4835.	1.9	11
80	Determination of the subcooled liquid solubilities of PAHs in partitioning batchÂexperiments. Geoscience Frontiers, 2013, 4, 123-126.	4.3	10
81	Optimization of a largeâ€volume injection method for compoundâ€specific isotope analysis of polycyclic aromatic compounds at trace concentrations. Rapid Communications in Mass Spectrometry, 2015, 29, 2349-2360.	0.7	10
82	Deciphering the Variability of Stable Isotope (C, Cl) Fractionation of Tetrachloroethene Biotransformation by <i>Desulfitobacterium</i> strains Carrying Different Reductive Dehalogenases Enzymes. Environmental Science & Technology, 2020, 54, 1593-1602.	4.6	10
83	Mediated electrochemical analysis as emerging tool to unravel links between microbial redox cycling of natural organic matter and anoxic nitrogen cycling. Earth-Science Reviews, 2020, 208, 103281.	4.0	10
84	Powering biological nitrogen removal from the environment by geobatteries. Trends in Biotechnology, 2022, 40, 377-380.	4.9	10
85	Calibration bias of experimentally determined chlorine isotope enrichment factors: the need for a twoâ€point calibration in compoundâ€specific chlorine isotope analysis. Rapid Communications in Mass Spectrometry, 2017, 31, 68-74.	0.7	9
86	Two Pathways Compete in the Mn(II)-Catalyzed Oxidation of Aminotrismethylene Phosphonate (ATMP). Environmental Science & Technology, 2022, 56, 4091-4100.	4.6	8
87	Contaminant Mass Transfer from NAPLs to Water Studied in a Continuously Stirred Flow-Through Reactor. Journal of Environmental Engineering, ASCE, 2012, 138, 826-832.	0.7	7
88	Increased copper levels inhibit denitrification in urban soils. Earth and Environmental Science Transactions of the Royal Society of Edinburgh, 2018, 109, 421-427.	0.3	7
89	Denitrifier Method for Nitrite Removal in Electrochemical Analysis of the Electron Accepting Capacity of Humic Substances. Analytical Chemistry, 2020, 92, 616-621.	3.2	6
90	Nano-sized zeolites as modulators of thiacloprid toxicity on <i>Chironomus riparius</i> . PeerJ, 2017, 5, e3525.	0.9	6

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91	Phosphate addition enhances alkaline extraction of glyphosate from highly sorptive soils and aquatic sediments. Pest Management Science, 2022, 78, 2550-2559.	1.7	6
92	Response to Comment on "New Evaluation Scheme for Two-Dimensional Isotope Analysis to Decipher Biodegradation Processes: Application to Groundwater Contamination by MTBE― Environmental Science & Technology, 2005, 39, 8543-8544.	4.6	5
93	Effect of injected CO2 on geochemical alteration of the Altmark gas reservoir in Germany. Environmental Earth Sciences, 2014, 72, 3655-3662.	1.3	5
94	Nano-sized Al2O3 reduces acute toxic effects of thiacloprid on the non-biting midge Chironomus riparius. PLoS ONE, 2017, 12, e0176356.	1.1	5
95	Heavy rainfall following a summer drought stimulates soil redox dynamics and facilitates rapid and deep translocation of glyphosate in floodplain soils. Environmental Sciences: Processes and Impacts, 2022, , .	1.7	2
96	Response to Comment on "Effects of Native Organic Material and Water on Sorption Properties of Reference Diesel Sootâ€: Environmental Science & Technology, 2009, 43, 5160-5160.	4.6	0