Stephen E Cabaniss

List of Publications by Year
in descending order

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46 papers	2,659 citations	172457 29 h-index	223800 46 g-index
46 all docs	46 docs citations	46 times ranked	2459 citing authors

#	Article	IF	Citations
1	Considerations in the use of high-pressure size exclusion chromatography (HPSEC) for determining molecular weights of aquatic humic substances. Water Research, 2000, 34, 3505-3514.	11.3	218
2	Copper binding by dissolved organic matter: I. Suwannee River fulvic acid equilibria. Geochimica Et Cosmochimica Acta, 1988, 52, 185-193.	3.9	214
3	Models of Metal Binding Structures in Fulvic Acid from the Suwannee River, Georgia. Environmental Science & Technology, 1998, 32, 2410-2416.	10.0	169
4	Size fractionation upon adsorption of fulvic acid on goethite: equilibrium and kinetic studies. Geochimica Et Cosmochimica Acta, 2001, 65, 803-812.	3.9	129
5	A comparison of surface water natural organic matter in raw filtered water samples, XAD, and reverse osmosis isolates. Water Research, 2002, 36, 2357-2371.	11.3	123
6	The effects of pH, ionic strength, and ironâ€“fulvic acid interactions on the kinetics of non-photochemical iron transformations. I. Iron(II) oxidation and iron(III) colloid formation. Geochimica Et Cosmochimica Acta, 2003, 67, 4067-4077.	3.9	122
7	A Log-Normal Distribution Model for the Molecular Weight of Aquatic Fulvic Acids. Environmental Science & Technology, 2000, 34, 1103-1109.	10.0	118
8	The role of ultraviolet radiation in litter decomposition in arid ecosystems. Applied Soil Ecology, 2006, 34, 82-91.	4.3	109
9	Forward Modeling of Metal Complexation by NOM: II. Prediction of Binding Site Properties. Environmental Science & Technology, 2011, 45, 3202-3209.	10.0	98
10	Synchronous fluorescence spectra of natural waters: tracing sources of dissolved organic matter. Marine Chemistry, 1987, 21, 37-50.	2.3	90
11	ADSORPTION AND FRACTIONATION OF A MUCK FULVIC ACID ON KAOLINITE AND GOETHITE AT pH 3.7, 6, AND 8. Soil Science, 2000, 165, 545-559.	0.9	79
12	Rank Analysis of the pH-Dependent Synchronous Fluorescence Spectra of Six Standard Humic Substances. Environmental Science & Technology, 1995, 29, 1460-1467.	10.0	77
13	Hydrogeochemical controls on the variations in chemical characteristics of natural organic matter at a small freshwater wetland. Chemical Geology, 2002, 187, 59-77.	3.3	67
14	Copper binding by dissolved organic matter: II. Variation in type and source of organic matter. Geochimica Et Cosmochimica Acta, 1988, 52, 195-200.	3.9	66
15	The effects of pH, ionic strength, and ironâ€“fulvic acid interactions on the kinetics of non-photochemical iron transformations. II. The kinetics of thermal reduction. Geochimica Et Cosmochimica Acta, 2003, 67, 4079-4089.	3.9	63
16	TITRATOR: an interactive program for aquatic equilibrium calculations. Environmental Science & Technology, 1987, 21, 209-210.	10.0	61
17	Combined ion selective electrode and fluorescence quenching detection for copper-dissolved organic matter titrations. Analytical Chemistry, 1986, 58, 398-401.	6.5	56
18	Aqueous Al(III) Speciation by High-Performance Cation Exchange Chromatography with Fluorescence Detection of the Aluminum-Lumogallion Complex. Analytical Chemistry, 1995, 67, 2342-2349.	6.5	55

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19	Soil organic matter and litter chemistry response to experimental N deposition in northern temperate deciduous forest ecosystems. Global Change Biology, 2005, 11, 1514-1521.	9.5	55
20	Fluorescence quenching measurements of copper-fulvic acid binding. Analytical Chemistry, 1988, 60, 2418-2421.	6.5	50
21	pH and ionic strength effects on nickel-fulvic acid dissociation kinetics. Environmental Science & Technology, 1990, 24, 583-588.	10.0	50
22	Forward Modeling of Metal Complexation by NOM: I. A priori Prediction of Conditional Constants and Speciation. Environmental Science & Technology, 2009, 43, 2838-2844.	10.0	48
23	Carboxylic acid content of a fulvic acid determined by potentiometry and aqueous Fourier transform infrared spectrometry. Analytica Chimica Acta, 1991, 255, 23-30.	5.4	47
24	Mercury in Natural Waters: A Mini-Review. Environmental Forensics, 2011, 12, 14-18.	2.6	44
25	Aluminum binding to humic substances determined by high performance cation exchange chromatography. Geochimica Et Cosmochimica Acta, 1997, 61, 1-9.	3.9	41
26	Determination of trace aluminum in natural waters by flow-injection analysis with fluorescent detection of the lumogallion complex. Analytica Chimica Acta, 1995, 303, 211-221.	5.4	38
27	Reverse-Phase HPLC Method for Measuring Polarity Distributions of Natural Organic Matter. Environmental Science & Technology, 2004, 38, 1108-1114.	10.0	38
28	Colorimetric flow-injection analysis of dissolved iron in high DOC waters. Water Research, 2001, 35, 363-372.	11.3	33
29	A Stochastic Model for the Synthesis and Degradation of Natural Organic Matter. Part I. Data Structures and Reaction Kinetics. Biogeochemistry, 2005, 76, 319-347.	3.5	31
30	Cu(II) binding by a pH-fractionated fulvic acid. Analytica Chimica Acta, 1999, 402, 183-193.	5.4	30
31	Theory of variable-angle synchronous fluorescence spectra. Analytical Chemistry, 1991, 63, 1323-1327.	6.5	29
32	Quantitative Structureâ˜Property Relationships for Predicting Metal Binding by Organic Ligands. Environmental Science & Technology, 2008, 42, 5210-5216.	10.0	27
33	Physicochemical variations in DOMâ€synchronous fluorescence: Implications for mixing studies. Limnology and Oceanography, 1997, 42, 1766-1773.	3.1	26
34	Quantitative aqueous attenuated total reflectance Fourier transform infrared spectroscopy. Analytica Chimica Acta, 1993, 280, 253-261.	5.4	21
35	Quantitative detection of aqueous arsenic and other oxoanions using attenuated total reflectance infrared spectroscopy utilizing iron oxide coated internal reflection elements to enhance the limits of detection. Analytica Chimica Acta, 2007, 581, 309-317.	5.4	20
36	Quantitative Structureâ˜Property Relationship for Predicting Chlorine Demand by Organic Molecules. Environmental Science & Technology, 2010, 44, 2503-2508.	10.0	18

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37	Agent-based scientific simulation. Computing in Science and Engineering, 2005, 7, 22-29.	1.2	17
38	Comment on "A unified physicochemical description of the protonation and metal ion complexation equilibria of natural organic acids (humic and fulvic acids)". Environmental Science & Technology, 1989, 23, 746-747.	10.0	14
39	Uncertainty propagation in geochemical calculations: non-linearity in solubility equilibria. Applied Geochemistry, 1999, 14, 255-262.	3.0	12
40	A stochastic model for the synthesis and degradation of natural organic matter part II: molecular property distributions. Biogeochemistry, 2007, 86, 269-286.	3.5	11
41	Molecular size effects on carboxyl acidity: Implications for humic substances. Analytica Chimica Acta, 1995, 304, 187-194.	5.4	10
42	Propagation of Uncertainty in Aqueous Equilibrium Calculations:â€‰ Non-Gaussian Output Distributions. Analytical Chemistry, 1997, 69, 3658-3664.	6.5	9
43	A stochastic model for the synthesis and degradation of natural organic matter. Part III: Modeling Cu(II) complexation. Applied Geochemistry, 2007, 22, 1646-1658.	3.0	9
44	Equilibrium modeling of U(VI) speciation in high carbonate groundwaters: Model error and propagation of uncertainty. Applied Geochemistry, 2011, 26, 2019-2026.	3.0	8
45	Predicting total organic halide formation from drinking water chlorination using quantitative structureâ€“property relationships. SAR and QSAR in Environmental Research, 2011, 22, 667-680.	2.2	5
46	QSPR for predicting chloroform formation in drinking water disinfection. SAR and QSAR in Environmental Research, 2011, 22, 489-504.	2.2	4