

D Scott Smith

List of Publications by Year in descending order

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94
papers

3,099
citations

159358

30
h-index

174990

52
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97
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97
docs citations

97
times ranked

2994
citing authors

#	ARTICLE	IF	CITATIONS
1	Validation and comparisons of NaOH and Na ₄ P ₂ O ₇ extraction methods for the characterization of organic amendments. <i>Soil Science Society of America Journal</i> , 2021, 85, 273-285.	1.2	3
2	Developing understanding of the fate and behaviour of silver in fresh waters and waste waters. <i>Science of the Total Environment</i> , 2021, 757, 143648.	3.9	5
3	Revised application of copper ion selective electrode (Cu-ISE) in marine waters: A new meta-calibration approach. <i>Talanta</i> , 2021, 226, 122170.	2.9	5
4	Interplay of oxygen and light in the photo-oxidation of dissolved organic carbon. <i>Water Research</i> , 2021, 201, 117332.	5.3	10
5	Physicochemical properties of the dissolved organic carbon can lead to different physiological responses of zebrafish (<i>Danio rerio</i>) under neutral and acidic conditions. <i>Journal of Experimental Zoology Part A: Ecological and Integrative Physiology</i> , 2021, 335, 864-878.	0.9	3
6	The effect of marine dissolved organic carbon on nickel accumulation in early life-stages of the sea urchin, <i>Strongylocentrotus purpuratus</i> . <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2021, 250, 109150.	1.3	0
7	Comparing a Fully Optimized ContinUous (FOCUS) method with the analytical inversion of Non Ideal Competitive Adsorption (NICA) for determining the conditional affinity spectrum (CAS) of H and Pb binding to natural organic matter. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 127785.	2.3	1
8	Dissolved Organic Matter Mitigates the Acute Toxicity of Thulium to <i>Hyalella azteca</i> but Ca, Mg and Na Do Not. <i>Archives of Environmental Contamination and Toxicology</i> , 2021, 81, 637-647.	2.1	5
9	Reusability of recovered iron coagulant from primary municipal sludge and its impact on chemically enhanced primary treatment. <i>Separation and Purification Technology</i> , 2020, 231, 115894.	3.9	24
10	Phosphorus binding to soil organic matter via ternary complexes with calcium. <i>Chemosphere</i> , 2020, 260, 127624.	4.2	40
11	Effects of natural light and depth on rates of photo-oxidation of dissolved organic carbon in a major black-water river, the Rio Negro, Brazil. <i>Science of the Total Environment</i> , 2020, 733, 139193.	3.9	9
12	Organic phosphorus removal using an integrated advanced oxidation-ultrafiltration process. <i>Water Research</i> , 2020, 182, 115968.	5.3	35
13	A Mystery Tale: Nickel Is Fickle When Snails Fail—Investigating the Variability in Ni Toxicity to the Great Pond Snail. <i>Integrated Environmental Assessment and Management</i> , 2020, 16, 983-997.	1.6	6
14	The Effects of Natural Suspended Solids on Copper Toxicity to the Cardinal Tetra in Amazonian River Waters. <i>Environmental Toxicology and Chemistry</i> , 2019, 38, 2708-2718.	2.2	8
15	Impact of Hydrofluoric Acid Treatment on Humic Acid Properties Extracted from Organic Soils and an Organic Amendment: A Technical Evaluation. <i>Soil Science Society of America Journal</i> , 2019, 83, 1219-1226.	1.2	5
16	Effect of solids residence time on dynamic responses in chemical P removal. <i>Water Environment Research</i> , 2019, 91, 250-258.	1.3	5
17	Does dissolved organic carbon from Amazon black water (Brazil) help a native species, the tambaqui <i>Colossoma macropomum</i> to maintain ionic homeostasis in acidic water?. <i>Journal of Fish Biology</i> , 2019, 94, 595-605.	0.7	9
18	Metal (Pb, Cd, and Zn) Binding to Diverse Organic Matter Samples and Implications for Speciation Modeling. <i>Environmental Science & Technology</i> , 2018, 52, 4163-4172.	4.6	24

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19	Physiological effects of marine natural organic matter and metals in early life stages of the North Pacific native marine mussel <i>Mytilus trossulus</i> ; a comparison with the invasive <i>Mytilus galloprovincialis</i> . <i>Marine Environmental Research</i> , 2018, 135, 136-144.	1.1	4
20	Determination of the speciation and bioavailability of samarium to <i>Chlamydomonas reinhardtii</i> in the presence of natural organic matter. <i>Environmental Toxicology and Chemistry</i> , 2018, 37, 1623-1631.	2.2	14
21	Photochemical Formation of Tunable Gold Nanostructures Using Versatile Water-Soluble Thiolate Au(I) Precursor. <i>Particle and Particle Systems Characterization</i> , 2018, 35, 1800285.	1.2	5
22	Physiological protective action of dissolved organic carbon on ion regulation and nitrogenous waste excretion of zebrafish (<i>Danio rerio</i>) exposed to low pH in ion-poor water. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2018, 188, 793-807.	0.7	12
23	Chronic effects of lead exposure on topsmelt fish (<i>Atherinops affinis</i>): Influence of salinity, organism age, and relative sensitivity to other marine species. <i>Environmental Toxicology and Chemistry</i> , 2018, 37, 2705-2713.	2.2	16
24	Testing the Underlying Chemical Principles of the Biotic Ligand Model (BLM) to Marine Copper Systems: Measuring Copper Speciation Using Fluorescence Quenching. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2018, 100, 76-81.	1.3	8
25	The role of dissolved organic carbon concentration and composition on nickel toxicity to early life-stages of the blue mussel <i>Mytilus edulis</i> and purple sea urchin <i>Strongylocentrotus purpuratus</i> . <i>Ecotoxicology and Environmental Safety</i> , 2018, 160, 162-170.	2.9	16
26	Vivianite Occurrence and Remediation Techniques in Biosolids Pre-treatment Process. <i>Proceedings of the Water Environment Federation</i> , 2018, 2018, 103-117.	0.0	1
27	Chemically enhanced primary treatment using recovered iron. <i>Proceedings of the Water Environment Federation</i> , 2018, 2018, 155-163.	0.0	0
28	Photo-oxidation processes, properties of DOC, reactive oxygen species (ROS), and their potential impacts on native biota and carbon cycling in the Rio Negro (Amazonia, Brazil). <i>Hydrobiologia</i> , 2017, 789, 7-29.	1.0	20
29	Measuring Biotic Ligand Model (BLM) Parameters in Vitro: Copper and Silver Binding to Rainbow Trout Gill Cells as Cultured Epithelia or in Suspension. <i>Environmental Science & Technology</i> , 2017, 51, 1733-1741.	4.6	4
30	Assessing effects of pH, metal ion and natural organic matter on identification and determination of reduced glutathione by cathodic stripping voltammetry. <i>International Journal of Environmental Analytical Chemistry</i> , 2017, 97, 330-344.	1.8	4
31	Nickel toxicity to cardinal tetra (<i>Paracheirodon axelrodi</i>) differs seasonally and among the black, white and clear river waters of the Amazon basin. <i>Water Research</i> , 2017, 123, 21-29.	5.3	29
32	Carbon and Phosphorus Removal from Primary Municipal Wastewater Using Recovered Aluminum. <i>Environmental Science & Technology</i> , 2017, 51, 12302-12309.	4.6	23
33	Experimentally derived acute and chronic copper Biotic Ligand Models for rainbow trout. <i>Aquatic Toxicology</i> , 2017, 192, 224-240.	1.9	20
34	Physiological effects of five different marine natural organic matters (NOMs) and three different metals (Cu, Pb, Zn) on early life stages of the blue mussel (<i>Mytilus galloprovincialis</i>). <i>PeerJ</i> , 2017, 5, e3141.	0.9	13
35	Dissolved organic carbon from the upper Rio Negro protects zebrafish (<i>Danio rerio</i>) against ionoregulatory disturbances caused by low pH exposure. <i>Scientific Reports</i> , 2016, 6, 20377.	1.6	40
36	Determination of cupric ion concentrations in marine waters: an improved procedure and comparison with other speciation methods. <i>Environmental Chemistry</i> , 2016, 13, 140.	0.7	11

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37	Investigating copper toxicity in the tropical fish cardinal tetra (<i>Paracheirodon axelrodi</i>) in natural Amazonian waters: Measurements, modeling, and reality. <i>Aquatic Toxicology</i> , 2016, 180, 353-363.	1.9	30
38	The influence of dissolved organic matter (DOM) on sodium regulation and nitrogenous waste excretion in the zebrafish (<i>Danio rerio</i>). <i>Journal of Experimental Biology</i> , 2016, 219, 2289-99.	0.8	12
39	Influence of dissolved organic matter (DOM) source on copper speciation and toxicity to <i>Brachionus plicatilis</i> . <i>Environmental Chemistry</i> , 2016, 13, 496.	0.7	14
40	Acute dysprosium toxicity to <i>Daphnia pulex</i> and <i>Hyalella azteca</i> and development of the biotic ligand approach. <i>Aquatic Toxicology</i> , 2016, 170, 142-151.	1.9	26
41	Mechanisms of Nickel Toxicity in the Highly Sensitive Embryos of the Sea Urchin <i>Evechinus chloroticus</i> , and the Modifying Effects of Natural Organic Matter. <i>Environmental Science & Technology</i> , 2016, 50, 1595-1603.	4.6	26
42	Complexation of silver and dissolved organic matter in soil water extracts. <i>Environmental Pollution</i> , 2015, 199, 174-184.	3.7	23
43	A dynamic physicochemical model for chemical phosphorus removal. <i>Water Research</i> , 2015, 73, 157-170.	5.3	92
44	Linking the chemical speciation of cerium to its bioavailability in water for a freshwater alga. <i>Environmental Toxicology and Chemistry</i> , 2015, 34, 1711-1719.	2.2	38
45	Bioavailability and characterization of dissolved organic nitrogen and dissolved organic phosphorus in wastewater effluents. <i>Science of the Total Environment</i> , 2015, 511, 47-53.	3.9	126
46	Impact of polymeric membrane filtration of oil sands process water on organic compounds quantification. <i>Water Science and Technology</i> , 2014, 70, 771-779.	1.2	10
47	Influence of Salinity and Dissolved Organic Carbon on Acute Cu Toxicity to the Rotifer <i>Brachionus plicatilis</i> . <i>Environmental Science & Technology</i> , 2014, 48, 1213-1221.	4.6	34
48	Between a Rock and a Hard Place: Microfiltration and Reverse Osmosis To Achieve Ultra-Low Total Phosphorus Concentrations. <i>Proceedings of the Water Environment Federation</i> , 2014, 2014, 7361-7382.	0.0	0
49	Influence of water chemistry and dissolved organic matter (DOM) molecular size on copper and mercury binding determined by multiresponse fluorescence quenching. <i>Chemosphere</i> , 2013, 92, 351-359.	4.2	96
50	Characterization of freshwater natural dissolved organic matter (DOM): Mechanistic explanations for protective effects against metal toxicity and direct effects on organisms. <i>Environment International</i> , 2013, 59, 201-207.	4.8	65
51	The effect of dissolved organic matter (DOM) on sodium transport and nitrogenous waste excretion of the freshwater cladoceran (<i>Daphnia magna</i>) at circumneutral and low pH. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2013, 158, 207-215.	1.3	13
52	Toxicity of lead and zinc to developing mussel and sea urchin embryos: Critical tissue residues and effects of dissolved organic matter and salinity. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2013, 158, 72-83.	1.3	23
53	Algal Uptake of Hydrophobic and Hydrophilic Dissolved Organic Nitrogen in Effluent from Biological Nutrient Removal Municipal Wastewater Treatment Systems. <i>Environmental Science & Technology</i> , 2012, 46, 713-721.	4.6	135
54	Evaluating the Potential of Effluents and Wood Feedstocks from Pulp and Paper Mills in Brazil, Canada, and New Zealand to Affect Fish Reproduction: Chemical Profiling and In Vitro Assessments. <i>Environmental Science & Technology</i> , 2012, 46, 1849-1858.	4.6	26

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55	Evaluating the ameliorative effect of natural dissolved organic matter (DOM) quality on copper toxicity to <i>Daphnia magna</i> : improving the BLM. <i>Ecotoxicology</i> , 2012, 21, 524-537.	1.1	63
56	Isolation and Identification of Ligands for the Goldfish Testis Androgen Receptor in Chemical Recovery Condensates from a Canadian Bleached Kraft Pulp and Paper Mill. <i>Environmental Science & Technology</i> , 2011, 45, 10226-10234.	4.6	13
57	Variability in dissolved organic matter fluorescence and reduced sulfur concentration in coastal marine and estuarine environments. <i>Applied Geochemistry</i> , 2011, 26, 394-404.	1.4	23
58	Physicochemical and spectroscopic properties of natural organic matter (NOM) from various sources and implications for ameliorative effects on metal toxicity to aquatic biota. <i>Aquatic Toxicology</i> , 2011, 103, 179-190.	1.9	88
59	The two faces of DOC. <i>Aquatic Toxicology</i> , 2011, 105, 3-8.	1.9	105
60	Effects of dissolved organic matter and reduced sulphur on copper bioavailability in coastal marine environments. <i>Ecotoxicology and Environmental Safety</i> , 2011, 74, 230-237.	2.9	34
61	Fluorescence Analysis of Natural Organic Matter Fractionated by Ultrafiltration: Contrasting Between Urban-Impacted Water, and Radio-Contaminated Water from a Near-Pristine Site. <i>Water, Air, and Soil Pollution</i> , 2011, 214, 471-490.	1.1	11
62	Acute and Chronic Toxicity of Copper to the Euryhaline Rotifer, <i>Brachionus plicatilis</i> (â€œLâ€•Strain). <i>Archives of Environmental Contamination and Toxicology</i> , 2011, 60, 250-260.	2.1	15
63	Molecular Variability in Wastewater Organic Matter and Implications for Phosphorus Removal Across a Range of Treatment Technologies. <i>Proceedings of the Water Environment Federation</i> , 2011, 2011, 82-102.	0.0	1
64	The Effects of Salinity, pH, and Dissolved Organic Matter on Acute Copper Toxicity to the Rotifer, <i>Brachionus plicatilis</i> (â€œLâ€•Strain). <i>Archives of Environmental Contamination and Toxicology</i> , 2010, 59, 225-234.	2.1	25
65	Fluorescence characterization of the natural organic matter in deep ground waters from the Canadian Shield, Ontario, Canada. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2010, 286, 699-705.	0.7	6
66	A comparison of the copper sensitivity of six invertebrate species in ambient salt water of varying dissolved organic matter concentrations. <i>Environmental Toxicology and Chemistry</i> , 2010, 29, 311-319.	2.2	36
67	Encapsulation and migration of PIT tags implanted in brown trout (<i>Salmo trutta</i> L.). <i>Aquaculture</i> , 2010, 298, 350-353.	1.7	22
68	Influence of natural organic matter (NOM) quality on Cuâ€“gill binding in the rainbow trout (<i>Oncorhynchus mykiss</i>). <i>Aquatic Toxicology</i> , 2010, 97, 343-352.	1.9	24
69	A comparison of the copper sensitivity of two economically important saltwater mussel species and a review of previously reported copper toxicity data for mussels: Important implications for determining future ambient copper saltwater criteria in the USA. <i>Environmental Toxicology</i> , 2009, 24, 618-628.	2.1	30
70	Toxicity of dissolved Cu, Zn, Ni and Cd to developing embryos of the blue mussel (<i>Mytilus trossolus</i>) and the protective effect of dissolved organic carbon. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2009, 149, 340-348.	1.3	77
71	Silver nanoparticle toxicity and biocides: Need for chemical speciation. <i>Integrated Environmental Assessment and Management</i> , 2009, 5, 720-722.	1.6	11
72	Acidâ€“base properties of cyanobacterial surfaces I: Influences of growth phase and nitrogen metabolism on cell surface reactivity. <i>Geochimica Et Cosmochimica Acta</i> , 2008, 72, 1257-1268.	1.6	32

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73	Acid–base properties of cyanobacterial surfaces. II: Silica as a chemical stressor influencing cell surface reactivity. <i>Geochimica Et Cosmochimica Acta</i> , 2008, 72, 1269-1280.	1.6	15
74	A Matter of Potential Concern: Natural Organic Matter Alters the Electrical Properties of Fish Gills. <i>Environmental Science & Technology</i> , 2008, 42, 9385-9390.	4.6	73
75	Significance of Design and Operational Variables in Chemical Phosphorus Removal. <i>Water Environment Research</i> , 2008, 80, 407-416.	1.3	79
76	Determination of sulfide ligands and association with natural organic matter. <i>Applied Geochemistry</i> , 2007, 22, 1606-1611.	1.4	21
77	Photodegradation of natural organic matter from diverse freshwater sources. <i>Aquatic Toxicology</i> , 2007, 84, 215-222.	1.9	55
78	EFFECTS OF USING SYNTHETIC SEA SALTS WHEN MEASURING AND MODELING COPPER TOXICITY IN SALTWATER TOXICITY TESTS. <i>Environmental Toxicology and Chemistry</i> , 2007, 26, 935.	2.2	18
79	Chemical phosphorus removal to extremely low levels: experience of two plants in the Washington, DC area. <i>Water Science and Technology</i> , 2006, 53, 21-28.	1.2	68
80	Determination of Strong Ligand Sites in Sewage Effluent-Impacted Waters by Competitive Ligand Titration with Silver. <i>Environmental Science & Technology</i> , 2004, 38, 2120-2125.	4.6	11
81	Surface chemistry and relative Ni sorptive capacities of synthetic hydrous Mn oxyhydroxides under variable wetting and drying regimes. <i>Geochimica Et Cosmochimica Acta</i> , 2004, 68, 443-454.	1.6	20
82	Specific surface chemical interactions between hydrous ferric oxide and iron-reducing bacteria determined using pKa spectra. <i>Journal of Colloid and Interface Science</i> , 2003, 266, 60-67.	5.0	25
83	Surface Chemical Heterogeneity of Bacteriogenic Iron Oxides from a Subterranean Environment. <i>Environmental Science & Technology</i> , 2003, 37, 5671-5677.	4.6	28
84	Metal speciation in natural waters with emphasis on reduced sulfur groups as strong metal binding sites. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2002, 133, 65-74.	1.3	65
85	Determination of Intrinsic Bacterial Surface Acidity Constants using a Donnan Shell Model and a Continuous pKa Distribution Method. <i>Journal of Colloid and Interface Science</i> , 2002, 253, 130-139.	5.0	156
86	Proton Binding by Hydrous Ferric Oxide and Aluminum Oxide Surfaces Interpreted Using Fully Optimized Continuous pKa Spectra. <i>Environmental Science & Technology</i> , 2001, 35, 4637-4642.	4.6	36
87	Cell Surface Electrochemical Heterogeneity of the Fe(III)-Reducing Bacteria <i>Shewanella putrefaciens</i> . <i>Environmental Science & Technology</i> , 2001, 35, 341-347.	4.6	125
88	[15] Computational and experimental approaches to studying metal interactions with microbial biofilms. <i>Methods in Enzymology</i> , 2001, 337, 225-242.	0.4	7
89	Multisite metal binding to fulvic acid determined using multiresponse fluorescence. <i>Analytica Chimica Acta</i> , 2000, 416, 211-220.	2.6	46
90	Fluorescence analysis for multi-site aluminum binding to natural organic matter. <i>Environment International</i> , 1999, 25, 295-306.	4.8	37

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91	Multi-site proton interactions with natural organic matter. <i>Environment International</i> , 1999, 25, 307-314.	4.8	34
92	Resolving uncertainty in chemical speciation determinations. <i>Geochimica Et Cosmochimica Acta</i> , 1999, 63, 3337-3347.	1.6	29
93	Characterizing Heterogeneous Bacterial Surface Functional Groups Using Discrete Affinity Spectra for Proton Binding. <i>Environmental Science & Technology</i> , 1999, 33, 4514-4521.	4.6	243
94	Multi-site aluminum speciation with natural organic matter using multiresponse fluorescence data. <i>Analytica Chimica Acta</i> , 1998, 363, 21-29.	2.6	22