

Kathleen A Schwehr

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2260823/publications.pdf>

Version: 2024-02-01

68
papers

3,250
citations

126708

33
h-index

155451

55
g-index

70
all docs

70
docs citations

70
times ranked

2856
citing authors

#	ARTICLE	IF	CITATIONS
1	The Interplay of Phototrophic and Heterotrophic Microbes Under Oil Exposure: A Microcosm Study. <i>Frontiers in Microbiology</i> , 2021, 12, 675328.	1.5	6
2	Partitioning of iron and plutonium to exopolymeric substances and intracellular biopolymers: A comparison study between the coccolithophore <i>Emiliania huxleyi</i> and the diatom <i>Skeletonema costatum</i> . <i>Marine Chemistry</i> , 2020, 218, 103735.	0.9	4
3	Can the protein/carbohydrate (P/C) ratio of exopolymeric substances (EPS) be used as a proxy for their "stickiness" and aggregation propensity?. <i>Marine Chemistry</i> , 2020, 218, 103734.	0.9	63
4	Marine Snow Aggregates are Enriched in Polycyclic Aromatic Hydrocarbons (PAHs) in Oil Contaminated Waters: Insights from a Mesocosm Study. <i>Journal of Marine Science and Engineering</i> , 2020, 8, 781.	1.2	13
5	The interplay of extracellular polymeric substances and oil/Corexit to affect the petroleum incorporation into sinking marine oil snow in four mesocosms. <i>Science of the Total Environment</i> , 2019, 693, 133626.	3.9	15
6	Molecular Interaction of Aqueous Iodine Species with Humic Acid Studied by I and C K-Edge X-ray Absorption Spectroscopy. <i>Environmental Science & Technology</i> , 2019, 53, 12416-12424.	4.6	8
7	Role of Polysaccharides in Diatom <i>Thalassiosira pseudonana</i> and its Associated Bacteria in Hydrocarbon Presence. <i>Plant Physiology</i> , 2019, 180, 1898-1911.	2.3	40
8	Comparison of microgels, extracellular polymeric substances (EPS) and transparent exopolymeric particles (TEP) determined in seawater with and without oil. <i>Marine Chemistry</i> , 2019, 215, 103667.	0.9	23
9	Nagasaki sediments reveal that long-term fate of plutonium is controlled by select organic matter moieties. <i>Science of the Total Environment</i> , 2019, 678, 409-418.	3.9	14
10	Rapid Degradation of Oil in Mesocosm Simulations of Marine Oil Snow Events. <i>Environmental Science & Technology</i> , 2019, 53, 3441-3450.	4.6	21
11	Sunlight induced aggregation of dissolved organic matter: Role of proteins in linking organic carbon and nitrogen cycling in seawater. <i>Science of the Total Environment</i> , 2019, 654, 872-877.	3.9	25
12	Mercury inputs and redistribution in the Penobscot River and estuary, Maine. <i>Science of the Total Environment</i> , 2018, 622-623, 172-183.	3.9	16
13	Sediment accumulation and mixing in the Penobscot River and estuary, Maine. <i>Science of the Total Environment</i> , 2018, 635, 228-239.	3.9	8
14	Diagnostic tool to ascertain marine phytoplankton exposure to chemically enhanced water accommodated fraction of oil using Fourier Transform Infrared spectroscopy. <i>Marine Pollution Bulletin</i> , 2018, 130, 170-178.	2.3	7
15	Radionuclide uptake by colloidal and particulate humic acids obtained from 14 soils collected worldwide. <i>Scientific Reports</i> , 2018, 8, 4795.	1.6	9
16	Biogenic Manganese Oxides Facilitate Iodide Oxidation at pH \approx 5. <i>Geomicrobiology Journal</i> , 2018, 35, 167-173.	1.0	7
17	Extracellular polymeric substances (EPS) producing and oil degrading bacteria isolated from the northern Gulf of Mexico. <i>PLoS ONE</i> , 2018, 13, e0208406.	1.1	53
18	Protein: Polysaccharide ratio in exopolymeric substances controlling the surface tension of seawater in the presence or absence of surrogate Macondo oil with and without Corexit. <i>Marine Chemistry</i> , 2018, 206, 84-92.	0.9	33

#	ARTICLE	IF	CITATIONS
19	The role of microbially-mediated exopolymeric substances (EPS) in regulating Macondo oil transport in a mesocosm experiment. <i>Marine Chemistry</i> , 2018, 206, 52-61.	0.9	26
20	Decreased sedimentation efficiency of petro- and non-petro-carbon caused by a dispersant for Macondo surrogate oil in a mesocosm simulating a coastal microbial community. <i>Marine Chemistry</i> , 2018, 206, 34-43.	0.9	24
21	The effects of sunlight on the composition of exopolymeric substances and subsequent aggregate formation during oil spills. <i>Marine Chemistry</i> , 2018, 203, 49-54.	0.9	27
22	Extracellular Enzyme Activity Profile in a Chemically Enhanced Water Accommodated Fraction of Surrogate Oil: Toward Understanding Microbial Activities After the Deepwater Horizon Oil Spill. <i>Frontiers in Microbiology</i> , 2018, 9, 798.	1.5	30
23	Light-induced aggregation of microbial exopolymeric substances. <i>Chemosphere</i> , 2017, 181, 675-681.	4.2	34
24	Estimates of recovery of the Penobscot River and estuarine system from mercury contamination in the 1960's. <i>Science of the Total Environment</i> , 2017, 596-597, 351-359.	3.9	19
25	Recent advances in the detection of specific natural organic compounds as carriers for radionuclides in soil and water environments, with examples of radioiodine and plutonium. <i>Journal of Environmental Radioactivity</i> , 2017, 171, 226-233.	0.9	31
26	Plutonium Partitioning Behavior to Humic Acids from Widely Varying Soils Is Related to Carboxyl-Containing Organic Compounds. <i>Environmental Science & Technology</i> , 2017, 51, 11742-11751.	4.6	13
27	Iodine and plutonium association with natural organic matter: A review of recent advances. <i>Applied Geochemistry</i> , 2017, 85, 121-127.	1.4	40
28	Microbial Transformation of Iodine: From Radioisotopes to Iodine Deficiency. <i>Advances in Applied Microbiology</i> , 2017, 101, 83-136.	1.3	36
29	Importance of coccolithophore-associated organic biopolymers for fractionating particle-reactive radionuclides (²³⁴ Th, ²³³ Pa, ²¹⁰ Pb, ²¹⁰ Po, and ²³⁸ U). <i>Environmental Science & Technology</i> , 2017, 51, 11742-11751.	4.6	13
30	The role of microbial exopolymers in determining the fate of oil and chemical dispersants in the ocean. <i>Limnology and Oceanography Letters</i> , 2016, 1, 3-26.	1.6	105
31	Role of natural organic matter on iodine and ^{239,240} Pu distribution and mobility in environmental samples from the northwestern Fukushima Prefecture, Japan. <i>Journal of Environmental Radioactivity</i> , 2016, 153, 156-166.	0.9	46
32	Binding of Th, Pa, Pb, Po and Be radionuclides to marine colloidal macromolecular organic matter. <i>Marine Chemistry</i> , 2015, 173, 320-329.	0.9	38
33	Evidence for Hydroxamate Siderophores and Other N-Containing Organic Compounds Controlling ^{239,240} Pu Immobilization and Remobilization in a Wetland Sediment. <i>Environmental Science & Technology</i> , 2015, 49, 11458-11467.	4.6	33
34	Radioiodine sorption/desorption and speciation transformation by subsurface sediments from the Hanford Site. <i>Journal of Environmental Radioactivity</i> , 2015, 139, 43-55.	0.9	48
35	Radioiodine Biogeochemistry and Prevalence in Groundwater. <i>Critical Reviews in Environmental Science and Technology</i> , 2014, 44, 2287-2335.	6.6	106
36	Superoxide Production by a Manganese-Oxidizing Bacterium Facilitates Iodide Oxidation. <i>Applied and Environmental Microbiology</i> , 2014, 80, 2693-2699.	1.4	41

#	ARTICLE	IF	CITATIONS
37	Geochemical controls of iodine uptake and transport in Savannah River Site subsurface sediments. <i>Applied Geochemistry</i> , 2014, 45, 105-113.	1.4	22
38	Speciation of iodine isotopes inside and outside of a contaminant plume at the Savannah River Site. <i>Science of the Total Environment</i> , 2014, 497-498, 671-678.	3.9	14
39	Plutonium Immobilization and Remobilization by Soil Mineral and Organic Matter in the Far-Field of the Savannah River Site, U.S.. <i>Environmental Science & Technology</i> , 2014, 48, 3186-3195.	4.6	30
40	Temporal Variation of Iodine Concentration and Speciation (¹²⁷ I and ¹²⁹ I) in Wetland Groundwater from the Savannah River Site, USA. <i>Environmental Science & Technology</i> , 2014, 48, 11218-11226.	4.6	17
41	Radioiodine concentrated in a wetland. <i>Journal of Environmental Radioactivity</i> , 2014, 131, 57-61.	0.9	28
42	Model of radioiodine speciation and partitioning in organic-rich and organic-poor soils from the Savannah River Site. <i>Journal of Environmental Chemical Engineering</i> , 2014, 2, 1321-1330.	3.3	14
43	Direct and Indirect Toxic Effects of Engineered Nanoparticles on Algae: Role of Natural Organic Matter. <i>ACS Sustainable Chemistry and Engineering</i> , 2013, 1, 686-702.	3.2	154
44	Ameliorating effects of extracellular polymeric substances excreted by <i>Thalassiosira pseudonana</i> on algal toxicity of CdSe quantum dots. <i>Aquatic Toxicology</i> , 2013, 126, 214-223.	1.9	64
45	Novel molecular-level evidence of iodine binding to natural organic matter from Fourier transform ion cyclotron resonance mass spectrometry. <i>Science of the Total Environment</i> , 2013, 449, 244-252.	3.9	65
46	Iodine-129 and Iodine-127 Speciation in Groundwater at the Hanford Site, U.S.: Iodate Incorporation into Calcite. <i>Environmental Science & Technology</i> , 2013, 47, 9635-9642.	4.6	86
47	Response to Comment on "Iodine-129 and Iodine-127 Speciation in Groundwater at Hanford Site, U.S.: Iodate Incorporation into Calcite". <i>Environmental Science & Technology</i> , 2013, 47, 13205-13206.	4.6	3
48	Bacterial Production of Organic Acids Enhances H ₂ O ₂ -Dependent Iodide Oxidation. <i>Environmental Science & Technology</i> , 2012, 46, 4837-4844.	4.6	54
49	Molecular environment of stable iodine and radioiodine (¹²⁹ I) in natural organic matter: Evidence inferred from NMR and binding experiments at environmentally relevant concentrations. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 97, 166-182.	1.6	59
50	Aggregation, Dissolution, and Stability of Quantum Dots in Marine Environments: Importance of Extracellular Polymeric Substances. <i>Environmental Science & Technology</i> , 2012, 46, 8764-8772.	4.6	113
51	Sequestration and Remobilization of Radioiodine (¹²⁹ I) by Soil Organic Matter and Possible Consequences of the Remedial Action at Savannah River Site. <i>Environmental Science & Technology</i> , 2011, 45, 9975-9983.	4.6	74
52	Evaluation of a Radioiodine Plume Increasing in Concentration at the Savannah River Site. <i>Environmental Science & Technology</i> , 2011, 45, 489-495.	4.6	56
53	Concentration-Dependent Mobility, Retardation, and Speciation of Iodine in Surface Sediment from the Savannah River Site. <i>Environmental Science & Technology</i> , 2011, 45, 5543-5549.	4.6	67
54	Is soil natural organic matter a sink or source for mobile radioiodine (¹²⁹ I) at the Savannah River Site?. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 5716-5735.	1.6	68

#	ARTICLE	IF	CITATIONS
55	Effects of Engineered Nanoparticles on the Assembly of Exopolymeric Substances from Phytoplankton. PLoS ONE, 2011, 6, e21865.	1.1	80
56	Factors controlling mobility of ¹²⁷ I and ¹²⁹ I species in an acidic groundwater plume at the Savannah River Site. Science of the Total Environment, 2011, 409, 3857-3865.	3.9	66
57	Chemical composition and relative hydrophobicity of microbial exopolymeric substances (EPS) isolated by anion exchange chromatography and their actinide-binding affinities. Marine Chemistry, 2011, 126, 27-36.	0.9	93
58	Controls of ²³⁴ Th removal from the oligotrophic ocean by polyuronic acids and modification by microbial activity. Marine Chemistry, 2011, 123, 111-126.	0.9	38
59	Iodide Accumulation by Aerobic Bacteria Isolated from Subsurface Sediments of a ¹²⁹ I-Contaminated Aquifer at the Savannah River Site, South Carolina. Applied and Environmental Microbiology, 2011, 77, 2153-2160.	1.4	37
60	Comparative evaluation of sediment trap and ²³⁴ Th-derived POC fluxes from the upper oligotrophic waters of the Gulf of Mexico and the subtropical northwestern Pacific Ocean. Marine Chemistry, 2010, 121, 132-144.	0.9	51
61	A Novel Approach for the Simultaneous Determination of Iodide, Iodate and Organo-Iodide for ¹²⁷ I and ¹²⁹ I in Environmental Samples Using Gas Chromatography- ⁷⁵ Se Mass Spectrometry. Environmental Science & Technology, 2010, 44, 9042-9048.	4.6	76
62	Optimized isolation procedure for obtaining strongly actinide binding exopolymeric substances (EPS) from two bacteria (Sagittula stellata and Pseudomonas fluorescens Biovar II). Bioresource Technology, 2009, 100, 6010-6021.	4.8	29
63	Organo-Iodine Formation in Soils and Aquifer Sediments at Ambient Concentrations. Environmental Science & Technology, 2009, 43, 7258-7264.	4.6	81
64	The algal toxicity of silver engineered nanoparticles and detoxification by exopolymeric substances. Environmental Pollution, 2009, 157, 3034-3041.	3.7	362
65	The dissolved organic iodine species of the isotopic ratio of ¹²⁹ I/ ¹²⁷ I: A novel tool for tracing terrestrial organic carbon in the estuarine surface waters of Galveston Bay, Texas. Limnology and Oceanography: Methods, 2005, 3, 326-337.	1.0	49
66	Near-conservative behavior of ¹²⁹ I in the orange county aquifer system, California. Applied Geochemistry, 2005, 20, 1461-1472.	1.4	21
67	¹²⁹ I/ ¹²⁷ I as a new environmental tracer or geochronometer for biogeochemical or hydrodynamic processes in the hydrosphere and geosphere: the central role of organo-iodine. Science of the Total Environment, 2004, 321, 257-271.	3.9	71
68	Sensitive determination of iodine species, including organo-iodine, for freshwater and seawater samples using high performance liquid chromatography and spectrophotometric detection. Analytica Chimica Acta, 2003, 482, 59-71.	2.6	141