

Peter H Santschi

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201
papers

12,680
citations

63
h-index

105
g-index

207
ext. papers

13,839
ext. citations

5.6
avg, IF

6.16
L-index

#	Paper	IF	Citations
201	Environmental behavior and ecotoxicity of engineered nanoparticles to algae, plants, and fungi. <i>Ecotoxicology</i> , 2008 , 17, 372-86	2.9	1234
200	The oceanic gel phase: a bridge in the DOMBOM continuum. <i>Marine Chemistry</i> , 2004 , 92, 67-85	3.7	483
199	The algal toxicity of silver engineered nanoparticles and detoxification by exopolymeric substances. <i>Environmental Pollution</i> , 2009 , 157, 3034-41	9.3	329
198	A kinetic approach to describe trace-element distribution between particles and solution in natural aquatic systems. <i>Geochimica Et Cosmochimica Acta</i> , 1984 , 48, 1513-1522	5.5	326
197	Metals in aquatic systems. <i>Environmental Science & Technology</i> , 1988 , 22, 862-71	10.3	290
196	Partitioning of Cu, Pb, Ag, Zn, Fe, Al, and Mn between filter-retained particles, colloids, and solution in six Texas estuaries. <i>Marine Chemistry</i> , 1994 , 45, 307-336	3.7	283
195	An assessment of particulate organic carbon to thorium-234 ratios in the ocean and their impact on the application of ²³⁴ Th as a POC flux proxy. <i>Marine Chemistry</i> , 2006 , 100, 213-233	3.7	209
194	Estuarine trace metal distributions in Galveston Bay: importance of colloidal forms in the speciation of the dissolved phase. <i>Marine Chemistry</i> , 1999 , 63, 185-212	3.7	201
193	Historical contamination of PAHs, PCBs, DDTs, and heavy metals in Mississippi River Delta, Galveston Bay and Tampa Bay sediment cores. <i>Marine Environmental Research</i> , 2001 , 52, 51-79	3.3	199
192	Zinc oxide-engineered nanoparticles: dissolution and toxicity to marine phytoplankton. <i>Environmental Toxicology and Chemistry</i> , 2010 , 29, 2814-22	3.8	190
191	The distribution of colloidal and dissolved organic carbon in the Gulf of Mexico. <i>Marine Chemistry</i> , 1994 , 45, 105-119	3.7	182
190	Isotopic evidence for the contemporary origin of high-molecular weight organic matter in oceanic environments. <i>Geochimica Et Cosmochimica Acta</i> , 1995 , 59, 625-631	5.5	158
189	Atmospheric Dispersal of ¹²⁹ Iodine from Nuclear Fuel Reprocessing Facilities. <i>Environmental Science & Technology</i> , 1999 , 33, 2536-2542	10.3	155
188	Dynamics of dissolved organic carbon (DOC) in oceanic environments. <i>Limnology and Oceanography</i> , 1995 , 40, 1392-1403	4.8	155
187	Heterogeneous processes affecting trace contaminant distribution in estuaries: The role of natural organic matter. <i>Marine Chemistry</i> , 1997 , 58, 99-125	3.7	150
186	A critical evaluation of the cross-flow ultrafiltration technique for sampling colloidal organic carbon in seawater. <i>Marine Chemistry</i> , 1996 , 55, 113-127	3.7	149
185	Intracellular uptake: a possible mechanism for silver engineered nanoparticle toxicity to a freshwater alga <i>Ochromonas danica</i> . <i>PLoS ONE</i> , 2010 , 5, e15196	3.7	143

184	Importance of acid polysaccharides for ²³⁴ Th complexation to marine organic matter. <i>Limnology and Oceanography</i> , 2002 , 47, 367-377	4.8	143
183	Scavenging of thorium isotopes by colloids in seawater of the Gulf of Mexico. <i>Geochimica Et Cosmochimica Acta</i> , 1992 , 56, 3375-3388	5.5	138
182	The role of particles and colloids in the transport of radionuclides in coastal environments of Texas. <i>Marine Chemistry</i> , 1993 , 43, 95-114	3.7	138
181	Fibrillar polysaccharides in marine macromolecular organic matter as imaged by atomic force microscopy and transmission electron microscopy. <i>Limnology and Oceanography</i> , 1998 , 43, 896-908	4.8	133
180	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	8.3	124
179	Natural (²¹⁰ Pb, ⁷ Be) and fallout (¹³⁷ Cs, ^{239,240} Pu, ⁹⁰ Sr) radionuclides as geochemical tracers of sedimentation in Greifensee, Switzerland. <i>Chemical Geology</i> , 1987 , 63, 181-196	4.2	120
178	Thorium speciation in seawater. <i>Marine Chemistry</i> , 2006 , 100, 250-268	3.7	118
177	Colloidal and Particulate Silver in River and Estuarine Waters of Texas. <i>Environmental Science & Technology</i> , 1997 , 31, 723-731	10.3	117
176	Sources of iodine and iodine 129 in rivers. <i>Water Resources Research</i> , 2002 , 38, 24-1-24-10	5.4	115
175	History of trace metal pollution in sabine-neches estuary, beaumont, Texas. <i>Environmental Science & Technology</i> , 1995 , 29, 1495-503	10.3	115
174	Re-examination of cross-flow ultrafiltration for sampling aquatic colloids: evidence from molecular probes. <i>Marine Chemistry</i> , 2000 , 69, 75-90	3.7	114
173	Isotopic and elemental characterization of colloidal organic matter from the Chesapeake Bay and Galveston Bay. <i>Marine Chemistry</i> , 1997 , 59, 1-15	3.7	106
172	Composition and cycling of colloids in marine environments. <i>Reviews of Geophysics</i> , 1997 , 35, 17-40	23.1	105
171	An ultraclean cross-flow ultrafiltration technique for the study of trace metal phase speciation in seawater. <i>Marine Chemistry</i> , 1996 , 55, 129-152	3.7	105
170	Cycling of high-molecular-weight dissolved organic matter in the Middle Atlantic Bight as revealed by carbon isotopic (¹³ C and ¹⁴ C) signatures. <i>Limnology and Oceanography</i> , 1996 , 41, 1242-1252	4.8	104
169	Distributions of carbohydrates, including uronic acids, in estuarine waters of Galveston Bay. <i>Marine Chemistry</i> , 2001 , 73, 305-318	3.7	101
168	Aggregation, dissolution, and stability of quantum dots in marine environments: importance of extracellular polymeric substances. <i>Environmental Science & Technology</i> , 2012 , 46, 8764-72	10.3	100
167	Coupling adsorption and particle aggregation: laboratory studies of "colloidal pumping" using iron-59-labeled hematite. <i>Environmental Science & Technology</i> , 1991 , 25, 1739-1747	10.3	97

166	234Th scavenging and its relationship to acid polysaccharide abundance in the Gulf of Mexico. <i>Marine Chemistry</i> , 2002 , 78, 103-119	3-7	96
165	Distribution and partitioning of trace metals (Cd, Cu, Ni, Pb, Zn) in Galveston Bay waters. <i>Marine Chemistry</i> , 2002 , 78, 29-45	3-7	95
164	Distributions of carbohydrate species in the Gulf of Mexico. <i>Marine Chemistry</i> , 2003 , 81, 119-135	3-7	95
163	Organic nature of colloidal actinides transported in surface water environments. <i>Environmental Science & Technology</i> , 2002 , 36, 3711-9	10.3	94
162	Polymer dynamics of DOC networks and gel formation in seawater. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2010 , 57, 1486-1493	2.3	90
161	Trace metal chemistry of Galveston Bay: water, sediments and biota. <i>Marine Environmental Research</i> , 1993 , 36, 1-37	3.3	83
160	129I in Gulf of Mexico waters. <i>Earth and Planetary Science Letters</i> , 1995 , 135, 131-138	5.3	82
159	Interactions between radioactively labeled colloids and natural particles: Evidence for colloidal pumping. <i>Geochimica Et Cosmochimica Acta</i> , 1997 , 61, 2867-2878	5.5	80
158	Thorium isotopes as analogues for particle-reactive pollutants in coastal marine environments. <i>Earth and Planetary Science Letters</i> , 1980 , 47, 327-335	5.3	80
157	Amphiphilic exopolymers from <i>Sagittula stellata</i> induce DOM self-assembly and formation of marine microgels. <i>Marine Chemistry</i> , 2008 , 112, 11-19	3-7	79
156	Sediment-water exchange of Mn, Fe, Ni and Zn in Galveston Bay, Texas. <i>Marine Chemistry</i> , 2001 , 73, 215-231	3.1	78
155	Trace metal composition of colloidal organic material in marine environments. <i>Marine Chemistry</i> , 2000 , 70, 257-275	3-7	78
154	Collection of lanthanides and actinides from natural waters with conventional and nanoporous sorbents. <i>Environmental Science & Technology</i> , 2012 , 46, 11251-8	10.3	77
153	Sources and transport of land-derived particulate and dissolved organic matter in the Gulf of Mexico (Texas shelf/slope): The use of ligninphenols and loliolides as biomarkers. <i>Organic Geochemistry</i> , 1997 , 27, 65-78	3.1	77
152	Control of acid polysaccharide production and 234Th and POC export fluxes by marine organisms. <i>Geophysical Research Letters</i> , 2003 , 30,	4.9	76
151	Sediment accumulation and radionuclide inventories (239,240Pu, 210Pb and 234Th) in the northern Gulf of Mexico, as influenced by organic matter and macrofaunal density. <i>Marine Chemistry</i> , 2004 , 91, 1-14	3-7	75
150	The 129iodine bomb pulse recorded in Mississippi River Delta sediments: results from isotopes of I, Pu, Cs, Pb, and C. <i>Geochimica Et Cosmochimica Acta</i> , 2000 , 64, 989-996	5.5	72
149	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	7.9	71

148	Chemical composition and relative hydrophobicity of microbial exopolymeric substances (EPS) isolated by anion exchange chromatography and their actinide-binding affinities. <i>Marine Chemistry</i> , 2011 , 126, 27-36	3.7	71
147	Organo-iodine formation in soils and aquifer sediments at ambient concentrations. <i>Environmental Science & Technology</i> , 2009 , 43, 7258-64	10.3	71
146	The distribution of biogenic thiols in surface waters of Galveston Bay. <i>Limnology and Oceanography</i> , 2000 , 45, 1289-1297	4.8	71
145	Effect of dissolved organic matter on the uptake of trace metals by American oysters. <i>Environmental Science & Technology</i> , 2001 , 35, 885-93	10.3	71
144	Boundary exchange and scavenging of radionuclides in continental margin waters of the Middle Atlantic Bight: implications for organic carbon fluxes. <i>Continental Shelf Research</i> , 1999 , 19, 609-636	2.4	70
143	Distribution of dissolved and particulate ²³⁰ Th and ²³² Th in seawater from the Gulf of Mexico and off Cape Hatteras as measured by SIMS. <i>Earth and Planetary Science Letters</i> , 1995 , 133, 117-128	5.3	69
142	Iodine-129 and iodine-127 speciation in groundwater at the Hanford site, US: iodate incorporation into calcite. <i>Environmental Science & Technology</i> , 2013 , 47, 9635-42	10.3	65
141	Colloidal Pumping: Evidence for the Coagulation Process Using Natural Colloids Tagged with ²⁰³ Hg. <i>Environmental Science & Technology</i> , 1996 , 30, 3335-3340	10.3	65
140	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	5.5	63
139	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. <i>Science of the Total Environment</i> , 2004 , 321, 257-71	10.2	63
138	Sorption irreversibility and coagulation behavior of ²³⁴ Th with marine organic matter. <i>Marine Chemistry</i> , 2001 , 76, 27-45	3.7	63
137	Effects of engineered nanoparticles on the assembly of exopolymeric substances from phytoplankton. <i>PLoS ONE</i> , 2011 , 6, e21865	3.7	62
136	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, 9975-83	10.3	62
135	Physicochemical speciation of bioactive trace metals (Cd, Cu, Fe, Ni) in the oligotrophic South China Sea. <i>Marine Chemistry</i> , 2006 , 101, 104-129	3.7	61
134	Organic complexation of copper in surface waters of Galveston Bay. <i>Limnology and Oceanography</i> , 2001 , 46, 321-330	4.8	61
133	Binding of thorium(IV) to carboxylate, phosphate and sulfate functional groups from marine exopolymeric substances (EPS). <i>Marine Chemistry</i> , 2006 , 100, 337-353	3.7	59
132	Trace metal (Cd, Cu, Ni and Pb) partitioning, affinities and removal in the Danshuei River estuary, a macro-tidal, temporally anoxic estuary in Taiwan. <i>Marine Chemistry</i> , 2005 , 96, 293-313	3.7	59
131	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, 214-23	5.1	58

130	234 Th: 238 U disequilibria in the Gulf of Mexico: the importance of organic matter and particle concentration. <i>Continental Shelf Research</i> , 1996 , 16, 353-380	2.4	57
129	Interactions of thorium isotopes with colloidal organic matter in oceanic environments. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 1997 , 120, 255-271	5.1	56
128	Isolation and characterization of extracellular polysaccharides produced by <i>Pseudomonas fluorescens</i> Biovar II. <i>Carbohydrate Polymers</i> , 2005 , 61, 141-147	10.3	56
127	Factors controlling mobility of 127I and 129I species in an acidic groundwater plume at the Savannah River Site. <i>Science of the Total Environment</i> , 2011 , 409, 3857-65	10.2	55
126	Colloidal cutin-like substances cross-linked to siderophore decomposition products mobilizing plutonium from contaminated soils. <i>Environmental Science & Technology</i> , 2008 , 42, 8211-7	10.3	54
125	A method for rapid in situ extraction and laboratory determination of Th, Pb, and Ra isotopes from large volumes of seawater. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 1993 , 40, 849-865	2.5	54
124	Terrestrially derived dissolved organic matter in the Chesapeake Bay and the Middle Atlantic Bight. <i>Geochimica Et Cosmochimica Acta</i> , 2000 , 64, 3547-3557	5.5	53
123	Accumulation rates and sources of sediments and organic carbon on the Palos Verdes shelf based on radioisotopic tracers (¹³⁷ Cs, ^{239,240} Pu, ²¹⁰ Pb, ²³⁴ Th, ²³⁸ U and ¹⁴ C). <i>Marine Chemistry</i> , 2001 , 73, 125-152	3.7	51
122	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, 244-52	10.2	50
121	Evaluation of a radioiodine plume increasing in concentration at the Savannah River Site. <i>Environmental Science & Technology</i> , 2011 , 45, 489-95	10.3	50
120	Spectrophotometric determination of total uronic acids in seawater using cation-exchange separation and pre-concentration by lyophilization. <i>Analytica Chimica Acta</i> , 2001 , 427, 111-117	6.6	50
119	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	5.5	49
118	Silver concentrations in Colorado, USA, watersheds using improved methodology. <i>Environmental Toxicology and Chemistry</i> , 2002 , 21, 2040-2051	3.8	48
117	Chemical composition and ²³⁴ Th (IV) binding of extracellular polymeric substances (EPS) produced by the marine diatom <i>Amphora</i> sp.. <i>Marine Chemistry</i> , 2008 , 112, 81-92	3.7	47
116	The role of organic carbon, iron, and aluminium oxyhydroxides as trace metal carriers: Comparison between the Trinity River and the Trinity River Estuary (Galveston Bay, Texas). <i>Marine Chemistry</i> , 2008 , 112, 20-37	3.7	46
115	Causes of Salt Marsh Erosion in Galveston Bay, Texas. <i>Journal of Coastal Research</i> , 2009 , 252, 265-272	0.6	45
114	Rapid Formation of Microbe-Oil Aggregates and Changes in Community Composition in Coastal Surface Water Following Exposure to Oil and the Dispersant Corexit. <i>Frontiers in Microbiology</i> , 2018 , 9, 689	5.7	44
113	Bacterial production of organic acids enhances H ₂ O ₂ -dependent iodide oxidation. <i>Environmental Science & Technology</i> , 2012 , 46, 4837-44	10.3	44

112	Sediment Transport and Hg Recovery in Lavaca Bay, as Evaluated from Radionuclide and Hg Distributions. <i>Environmental Science & Technology</i> , 1999 , 33, 378-391	10.3	44
111	Upper ocean carbon flux determined by the ²³⁴ Th approach and sediment traps using size-fractionated POC and ²³⁴ Th data from the Gulf of Mexico. <i>Geochemical Journal</i> , 2004 , 38, 601-611	0.9	43
110	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. <i>Limnology and Oceanography: Methods</i> , 2005 , 3, 326-337	2.6	41
109	Adsorption characteristics of ²¹⁰ Pb, ²¹⁰ Po and ⁷ Be onto micro-particle surfaces and the effects of macromolecular organic compounds. <i>Geochimica Et Cosmochimica Acta</i> , 2013 , 107, 47-64	5.5	40
108	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. <i>Marine Chemistry</i> , 2010 , 121, 132-144	3.7	40
107	Benthic exchange of nutrients in Galveston Bay, Texas. <i>Estuaries and Coasts</i> , 2000 , 23, 647		40
106	Sedimentary sources of old high molecular weight dissolved organic carbon from the ocean margin benthic nepheloid layer. <i>Geochimica Et Cosmochimica Acta</i> , 2000 , 64, 651-660	5.5	40
105	Comparative bioaccumulation studies of colloiddally complexed and free-ionic heavy metals in juvenile brown shrimp <i>Penaeus aztecus</i> (Crustacea: Decapoda: Penaeidae). <i>Limnology and Oceanography</i> , 1999 , 44, 403-414	4.8	39
104	A seasonal survey of carbohydrates and uronic acids in the Trinity River, Texas. <i>Organic Geochemistry</i> , 2005 , 36, 463-474	3.1	38
103	Seasonality in nutrient concentrations in Galveston Bay. <i>Marine Environmental Research</i> , 1995 , 40, 337-362	3.2	38
102	Ultrafiltration and its Applications to Sampling and Characterisation of Aquatic Colloids 2007 , 159-221		37
101	Radioiodine sorption/desorption and speciation transformation by subsurface sediments from the Hanford Site. <i>Journal of Environmental Radioactivity</i> , 2015 , 139, 43-55	2.4	36
100	Biogeochemical behavior of organic carbon in the Trinity River downstream of a large reservoir lake in Texas, USA. <i>Science of the Total Environment</i> , 2004 , 329, 131-44	10.2	36
99	Dioxin chronology and fluxes in sediments of the Houston Ship Channel, Texas: influences of non-steady-state sediment transport and total organic carbon. <i>Environmental Science & Technology</i> , 2007 , 41, 5291-8	10.3	35
98	Thorium sorption in the marine environment: Equilibrium partitioning at the hematite/water interface, sorption/desorption kinetics and particle tracing. <i>Aquatic Geochemistry</i> , 1996 , 1, 277-301	1.7	35
97	Plant pigments as biomarkers of high-molecular-weight dissolved organic carbon. <i>Limnology and Oceanography</i> , 1995 , 40, 422-428	4.8	35
96	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	2.4	34
95	Role of biopolymers as major carrier phases of Th, Pa, Pb, Po, and Be radionuclides in settling particles from the Atlantic Ocean. <i>Marine Chemistry</i> , 2013 , 157, 131-143	3.7	34

94	Spontaneous Assembly of Exopolymers from Phytoplankton. <i>Terrestrial, Atmospheric and Oceanic Sciences</i> , 2009 , 20, 741	1.8	34
93	Scavenging and fractionation of thorium vs. protactinium in the ocean, as determined from particle-water partitioning experiments with sediment trap material from the Gulf of Mexico and Sargasso Sea. <i>Earth and Planetary Science Letters</i> , 2009 , 286, 131-138	5.3	34
92	Evidence for elevated levels of iodine-129 in the Deep Western Boundary Current in the Middle Atlantic Bight. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 1996 , 43, 259-265	2.5	33
91	Marine colloids, agents of the self-cleansing capacity of aquatic systems: Historical perspective and new discoveries. <i>Marine Chemistry</i> , 2018 , 207, 124-135	3.7	33
90	Binding of Th, Pa, Pb, Po and Be radionuclides to marine colloidal macromolecular organic matter. <i>Marine Chemistry</i> , 2015 , 173, 320-329	3.7	32
89	Methods for analyzing the concentration and speciation of major and trace elements in marine particles. <i>Progress in Oceanography</i> , 2015 , 133, 32-42	3.8	31
88	²³⁴ Th in different size classes of sediment trap collected particles from the Northwestern Pacific Ocean. <i>Geochimica Et Cosmochimica Acta</i> , 2012 , 91, 60-74	5.5	31
87	Controls of ²³⁴ Th removal from the oligotrophic ocean by polyuronic acids and modification by microbial activity. <i>Marine Chemistry</i> , 2011 , 123, 111-126	3.7	31
86	Response of photosynthesis and the antioxidant defense system of two microalgal species (Alexandrium minutum and Dunaliella salina) to the toxicity of BDE-47. <i>Marine Pollution Bulletin</i> , 2017 , 124, 459-469	6.7	30
85	Iodide accumulation by aerobic bacteria isolated from subsurface sediments of a ¹²⁹ I-contaminated aquifer at the Savannah River site, South Carolina. <i>Applied and Environmental Microbiology</i> , 2011 , 77, 2153-60	4.8	30
84	Production and flux of carbohydrate species in the Gulf of Mexico. <i>Global Biogeochemical Cycles</i> , 2003 , 17, n/a-n/a	5.9	30
83	Superoxide production by a manganese-oxidizing bacterium facilitates iodide oxidation. <i>Applied and Environmental Microbiology</i> , 2014 , 80, 2693-9	4.8	29
82	Light-induced aggregation of microbial exopolymeric substances. <i>Chemosphere</i> , 2017 , 181, 675-681	8.4	28
81	Influence of organic matter on the adsorption of ²¹⁰ Pb, ²¹⁰ Po and ⁷ Be and their fractionation on nanoparticles in seawater. <i>Earth and Planetary Science Letters</i> , 2015 , 423, 193-201	5.3	28
80	Nitrogen and carbon isotopic composition of high-molecular-weight dissolved organic matter in marine environments. <i>Marine Ecology - Progress Series</i> , 2003 , 252, 51-60	2.6	28
79	Unique Organic Matter and Microbial Properties in the Rhizosphere of a Wetland Soil. <i>Environmental Science & Technology</i> , 2016 , 50, 4169-77	10.3	28
78	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, 11458-67	10.3	27
77	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, 3186-95	10.3	27

76	Incorporation of oil into diatom aggregates. <i>Marine Ecology - Progress Series</i> , 2019 , 612, 65-86	2.6	27
75	Nano-plastics induce aquatic particulate organic matter (microgels) formation. <i>Science of the Total Environment</i> , 2020 , 706, 135681	10.2	27
74	Iodine and plutonium association with natural organic matter: A review of recent advances. <i>Applied Geochemistry</i> , 2017 , 85, 121-127	3.5	26
73	Application of cross-flow ultrafiltration for isolating exopolymeric substances from a marine diatom (<i>Amphora</i> sp.). <i>Limnology and Oceanography: Methods</i> , 2009 , 7, 419-429	2.6	26
72	Optimized isolation procedure for obtaining strongly actinide binding exopolymeric substances (EPS) from two bacteria (<i>Sagittula stellata</i> and <i>Pseudomonas fluorescens</i> Biovar II). <i>Bioresource Technology</i> , 2009 , 100, 6010-21	11	25
71	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	3.7	25
70	Effect of Engineered Nanoparticles on Exopolymeric Substances Release from Marine Phytoplankton. <i>Nanoscale Research Letters</i> , 2017 , 12, 620	5	24
69	Radioiodine concentrated in a wetland. <i>Journal of Environmental Radioactivity</i> , 2014 , 131, 57-61	2.4	24
68	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	3.7	24
67	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	5.7	23
66	Important role of biomolecules from diatoms in the scavenging of particle-reactive radionuclides of thorium, protactinium, lead, polonium, and beryllium in the ocean: A case study with <i>Phaeodactylum tricornutum</i> . <i>Limnology and Oceanography</i> , 2014 , 59, 1256-1266	4.8	23
65	Identifying oil/marine snow associations in mesocosm simulations of the Deepwater Horizon oil spill event using solid-state C NMR spectroscopy. <i>Marine Pollution Bulletin</i> , 2018 , 126, 159-165	6.7	23
64	Microbial Transformation of Iodine: From Radioisotopes to Iodine Deficiency. <i>Advances in Applied Microbiology</i> , 2017 , 101, 83-136	4.9	22
63	Response of natural phytoplankton communities exposed to crude oil and chemical dispersants during a mesocosm experiment. <i>Aquatic Toxicology</i> , 2019 , 206, 43-53	5.1	22
62	Geochemical controls of iodine uptake and transport in Savannah River Site subsurface sediments. <i>Applied Geochemistry</i> , 2014 , 45, 105-113	3.5	21
61	Nano- and microplastics trigger secretion of protein-rich extracellular polymeric substances from phytoplankton. <i>Science of the Total Environment</i> , 2020 , 748, 141469	10.2	21
60	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	3.7	20
59	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	3.7	19

58	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	3.7	18
57	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	10.2	17
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