# Peter H Santschi

List of Publications by Year
in descending order

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| 203 | 15,244 | 13865 | 20961 |
|---|---|---|---|
| papers | citations | 67 h-index | 115 g-index |

| 207 | 207 | 207 | 10423 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Environmental behavior and ecotoxicity of engineered nanoparticles to algae, plants, and fungi. Ecotoxicology, 2008, 17, 372-386. | 2.4 | 1,459 |
| 2 | The oceanic gel phase: a bridge in the DOMâ€“POM continuum. Marine Chemistry, 2004, 92, 67-85. | 2.3 | 576 |
| 3 | The algal toxicity of silver engineered nanoparticles and detoxification by exopolymeric substances. Environmental Pollution, 2009, 157, 3034-3041. | 7.5 | 362 |
| 4 | A kinetic approach to describe trace-element distribution between particles and solution in natural aquatic systems. Geochimica Et Cosmochimica Acta, 1984, 48, 1513-1522. | 3.9 | 356 |
| 5 | Metals in aquatic systems. Environmental Science & Technology, 1988, 22, 862-871. | 10.0 | 328 |
| 6 | Partitioning of Cu, Pb, Ag, Zn, Fe, Al, and Mn between filter-retained particles, colloids, and solution in six Texas estuaries. Marine Chemistry, 1994, 45, 307-336. | 2.3 | 303 |
| 7 | An assessment of particulate organic carbon to thorium-234 ratios in the ocean and their impact on the application of 234Th as a POC flux proxy. Marine Chemistry, 2006, 100, 213-233. | 2.3 | 245 |
| 8 | Estuarine trace metal distributions in Galveston Bay: importance of colloidal forms in the speciation of the dissolved phase. Marine Chemistry, 1999, 63, 185-212. | 2.3 | 240 |
| 9 | Historical contamination of PAHs, PCBs, DDTs, and heavy metals in Mississippi River Delta, Galveston Bay and Tampa Bay sediment cores. Marine Environmental Research, 2001, 52, 51-79. | 2.5 | 239 |
| 10 | Zinc oxideâ€“engineered nanoparticles: Dissolution and toxicity to marine phytoplankton. Environmental Toxicology and Chemistry, 2010, 29, 2814-2822. | 4.3 | 221 |
| 11 | The distribution of colloidal and dissolved organic carbon in the Gulf of Mexico. Marine Chemistry, 1994, 45, 105-119. | 2.3 | 211 |
| 12 | Dynamics of dissolved organic carbon (DOC) in oceanic environments. Limnology and Oceanography, 1995, 40, 1392-1403. | 3.1 | 209 |
| 13 | A critical evaluation of the cross-flow ultrafiltration technique for sampling colloidal organic carbon in seawater. Marine Chemistry, 1996, 55, 113-127. | 2.3 | 182 |
| 14 | Isotopic evidence for the contemporary origin of high-molecular weight organic matter in oceanic environments. Geochimica Et Cosmochimica Acta, 1995, 59, 625-631. | 3.9 | 175 |
| 15 | Heterogeneous processes affecting trace contaminant distribution in estuaries: The role of natural organic matter. Marine Chemistry, 1997, 58, 99-125. | 2.3 | 170 |
| 16 | Fibrillar polysaccharides in marine macromolecular organic matter as imaged by atomic force microscopy and transmission electron microscopy. Limnology and Oceanography, 1998, 43, 896-908. | 3.1 | 169 |
| 17 | Importance of acid polysaccharides for <sup>234</sup>Th complexation to marine organic matter. Limnology and Oceanography, 2002, 47, 367-377. | 3.1 | 166 |
| 18 | Atmospheric Dispersal of129Iodine from Nuclear Fuel Reprocessing Facilities. Environmental Science & Technology, 1999, 33, 2536-2542. | 10.0 | 161 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Intracellular Uptake: A Possible Mechanism for Silver Engineered Nanoparticle Toxicity to a Freshwater Alga Ochromonas danica. PLoS ONE, 2010, 5, e15196. | 2.5 | 161 |
| 20 | The role of particles and colloids in the transport of radionuclides in coastal environments of Texas. Marine Chemistry, 1993, 43, 95-114. | 2.3 | 155 |
| 21 | Direct and Indirect Toxic Effects of Engineered Nanoparticles on Algae: Role of Natural Organic Matter. ACS Sustainable Chemistry and Engineering, 2013, 1, 686-702. | 6.7 | 154 |
| 22 | Scavenging of thorium isotopes by colloids in seawater of the Gulf of Mexico. Geochimica Et Cosmochimica Acta, 1992, 56, 3375-3388. | 3.9 | 150 |
| 23 | Composition and cycling of colloids in marine environments. Reviews of Geophysics, 1997, 35, 17-40. | 23.0 | 146 |
| 24 | Thorium speciation in seawater. Marine Chemistry, 2006, 100, 250-268. | 2.3 | 142 |
| 25 | Re-examination of cross-flow ultrafiltration for sampling aquatic colloids: evidence from molecular probes. Marine Chemistry, 2000, 69, 75-90. | 2.3 | 139 |
| 26 | History of Trace Metal Pollution in Sabine-Neches Estuary, Beaumont, Texas. Environmental Science & Technology, 1995, 29, 1495-1503. | 10.0 | 135 |
| 27 | Colloidal and Particulate Silver in River and Estuarine Waters of Texas. Environmental Science & Technology, 1997, 31, 723-731. | 10.0 | 135 |
| 28 | Sources of iodine and iodine 129 in rivers. Water Resources Research, 2002, 38, 24-1-24-10. | 4.2 | 133 |
| 29 | Natural (210Pb, 7Be) and fallout (137Cs, 239,240Pu, 90Sr) radionuclides as geochemical tracers of sedimentation in Greifensee, Switzerland. Chemical Geology, 1987, 63, 181-196. | 3.3 | 132 |
| 30 | Isotopic and elemental characterization of colloidal organic matter from the Chesapeake Bay and Galveston Bay. Marine Chemistry, 1997, 59, 1-15. | 2.3 | 128 |
| 31 | Cycling of highâ€molecularâ€weight dissolved organic matter in the Middle Atlantic Bight as revealed by carbon isotopic (<sup>13</sup>C and <sup>14</sup>C) signatures. Limnology and Oceanography, 1996, 41, 1242-1252. | 3.1 | 122 |
| 32 | An ultraclean cross-flow ultrafiltration technique for the study of trace metal phase speciation in seawater. Marine Chemistry, 1996, 55, 129-152. | 2.3 | 121 |
| 33 | Distributions of carbohydrates, including uronic acids, in estuarine waters of Galveston Bay. Marine Chemistry, 2001, 73, 305-318. | 2.3 | 120 |
| 34 | Aggregation, Dissolution, and Stability of Quantum Dots in Marine Environments: Importance of Extracellular Polymeric Substances. Environmental Science & Technology, 2012, 46, 8764-8772. | 10.0 | 113 |
| 35 | Organic Nature of Colloidal Actinides Transported in Surface Water Environments. Environmental Science & Technology, 2002, 36, 3711-3719. | 10.0 | 111 |
| 36 | Distribution and partitioning of trace metals (Cd, Cu, Ni, Pb, Zn) in Galveston Bay waters. Marine Chemistry, 2002, 78, 29-45. | 2.3 | 110 |

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|---|---|---|---|
| 37 | Distributions of carbohydrate species in the Gulf of Mexico. Marine Chemistry, 2003, 81, 119-135. | 2.3 | 110 |
| 38 | Polymer dynamics of DOC networks and gel formation in seawater. Deep-Sea Research Part II: Topical Studies in Oceanography, 2010, 57, 1486-1493. | 1.4 | 110 |
| 39 | Coupling adsorption and particle aggregation: laboratory studies of "colloidal pumping" using iron-59-labeled hematite. Environmental Science & Technology, 1991, 25, 1739-1747. | 10.0 | 107 |
| 40 | 234Th scavenging and its relationship to acid polysaccharide abundance in the Gulf of Mexico. Marine Chemistry, 2002, 78, 103-119. | 2.3 | 105 |
| 41 | The role of microbial exopolymers in determining the fate of oil and chemical dispersants in the ocean. Limnology and Oceanography Letters, 2016, 1, 3-26. | 3.9 | 105 |
| 42 | Trace metal chemistry of Galveston Bay: water, sediments and biota. Marine Environmental Research, 1993, 36, 1-37. | 2.5 | 99 |
| 43 | The distribution of biogenic thiols in surface waters of Galveston Bay. Limnology and Oceanography, 2000, 45, 1289-1297. | 3.1 | 95 |
| 44 | Interactions between radioactively labeled colloids and natural particles: Evidence for colloidal pumping. Geochimica Et Cosmochimica Acta, 1997, 61, 2867-2878. | 3.9 | 93 |
| 45 | Amphiphilic exopolymers from Sagittula stellata induce DOM self-assembly and formation of marine microgels. Marine Chemistry, 2008, 112, 11-19. | 2.3 | 93 |
| 46 | 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. | 2.3 | 93 |
| 47 | Control of acid polysaccharide production and234Th and POC export fluxes by marine organisms. Geophysical Research Letters, 2003, 30, . | 4.0 | 91 |
| 48 | Sediment-water exchange of Mn, Fe, Ni and Zn in Galveston Bay, Texas. Marine Chemistry, 2001, 73, 215-231. | 2.3 | 90 |
| 49 | Sediment accumulation and radionuclide inventories (239,240Pu, 210Pb and 234Th) in the northern Gulf of Mexico, as influenced by organic matter and macrofaunal density. Marine Chemistry, 2004, 91, 1-14. | 2.3 | 89 |
| 50 | 129I in Gulf of Mexico waters. Earth and Planetary Science Letters, 1995, 135, 131-138. | 4.4 | 88 |
| 51 | Collection of Lanthanides and Actinides from Natural Waters with Conventional and Nanoporous Sorbents. Environmental Science & Technology, 2012, 46, 11251-11258. | 10.0 | 88 |
| 52 | Trace metal composition of colloidal organic material in marine environments. Marine Chemistry, 2000, 70, 257-275. | 2.3 | 86 |
| 53 | Iodine-129 and Iodine-127 Speciation in Groundwater at the Hanford Site, U.S.: Iodate Incorporation into Calcite. Environmental Science & Technology, 2013, 47, 9635-9642. | 10.0 | 86 |
| 54 | Thorium isotopes as analogues for â€œparticle-reactiveâ€•pollutants in coastal marine environments. Earth and Planetary Science Letters, 1980, 47, 327-335. | 4.4 | 85 |

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| 55 | 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. Organic Geochemistry, 1997, 27, 65-78. | 1.8 | 84 |
| 56 | Boundary exchange and scavenging of radionuclides in continental margin waters of the Middle Atlantic Bight: implications for organic carbon fluxes. Continental Shelf Research, 1999, 19, 609-636. | 1.8 | 81 |
| 57 | Organo-Iodine Formation in Soils and Aquifer Sediments at Ambient Concentrations. Environmental Science & Technology, 2009, 43, 7258-7264. | 10.0 | 81 |
| 58 | The 129iodine bomb pulse recorded in Mississippi River Delta sediments: results from isotopes of I, Pu, Cs, Pb, and C. Geochimica Et Cosmochimica Acta, 2000, 64, 989-996. | 3.9 | 80 |
| 59 | Effects of Engineered Nanoparticles on the Assembly of Exopolymeric Substances from Phytoplankton. PLoS ONE, 2011, 6, e21865. | 2.5 | 80 |
| 60 | Nano- and microplastics trigger secretion of protein-rich extracellular polymeric substances from phytoplankton. Science of the Total Environment, 2020, 748, 141469. | 8.0 | 80 |
| 61 | Effect of Dissolved Organic Matter on the Uptake of Trace Metals by American Oysters. Environmental Science & Technology, 2001, 35, 885-893. | 10.0 | 79 |
| 62 | Distribution of dissolved and particulate230Th and232Th in seawater from the Gulf of Mexico and off Cape Hatteras as measured by SIMS. Earth and Planetary Science Letters, 1995, 133, 117-128. | 4.4 | 77 |
| 63 | Colloidal Pumping:Â Evidence for the Coagulation Process Using Natural Colloids Tagged with203Hg. Environmental Science & Technology, 1996, 30, 3335-3340. | 10.0 | 77 |
| 64 | Sequestration and Remobilization of Radioiodine (<sup>129</sup>I) by Soil Organic Matter and Possible Consequences of the Remedial Action at Savannah River Site. Environmental Science & Technology, 2011, 45, 9975-9983. | 10.0 | 74 |
| 65 | Organic complexation of copper in surface waters of Galveston Bay. Limnology and Oceanography, 2001, 46, 321-330. | 3.1 | 73 |
| 66 | Physicochemical speciation of bioactive trace metals (Cd, Cu, Fe, Ni) in the oligotrophic South China Sea. Marine Chemistry, 2006, 101, 104-129. | 2.3 | 73 |
| 67 | Rapid Formation of Microbe-Oil Aggregates and Changes in Community Composition in Coastal Surface Water Following Exposure to Oil and the Dispersant Corexit. Frontiers in Microbiology, 2018, 9, 689. | 3.5 | 72 |
| 68 | 129I/127I 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. | 8.0 | 71 |
| 69 | Sorption irreversibility and coagulation behavior of 234Th with marine organic matter. Marine Chemistry, 2001, 76, 27-45. | 2.3 | 68 |
| 70 | Is soil natural organic matter a sink or source for mobile radioiodine (129I) at the Savannah River Site?. Geochimica Et Cosmochimica Acta, 2011, 75, 5716-5735. | 3.9 | 68 |
| 71 | A method for rapid in situ extraction and laboratory determination of Th, Pb, and Ra isotopes from large volumes of seawater. Deep-Sea Research Part I: Oceanographic Research Papers, 1993, 40, 849-865. | 1.4 | 67 |
| 72 | Trace metal (Cd, Cu, Ni and Pb) partitioning, affinities and removal in the Danshuei River estuary, a macro-tidal, temporally anoxic estuary in Taiwan. Marine Chemistry, 2005, 96, 293-313. | 2.3 | 66 |

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| 73 | Factors controlling mobility of 127I and 129I species in an acidic groundwater plume at the Savannah River Site. Science of the Total Environment, 2011, 409, 3857-3865. | 8.0 | 66 |
| 74 | Isolation and characterization of extracellular polysaccharides produced by Pseudomonas fluorescens Biovar II. Carbohydrate Polymers, 2005, 61, 141-147. | 10.2 | 65 |
| 75 | Novel molecular-level evidence of iodine binding to natural organic matter from Fourier transform ion cyclotron resonance mass spectrometry. Science of the Total Environment, 2013, 449, 244-252. | 8.0 | 65 |
| 76 | Interactions of thorium isotopes with colloidal organic matter in oceanic environments. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1997, 120, 255-271. | 4.7 | 64 |
| 77 | Binding of thorium(IV) to carboxylate, phosphate and sulfate functional groups from marine exopolymeric substances (EPS). Marine Chemistry, 2006, 100, 337-353. | 2.3 | 64 |
| 78 | Ameliorating effects of extracellular polymeric substances excreted by Thalassiosira pseudonana on algal toxicity of CdSe quantum dots. Aquatic Toxicology, 2013, 126, 214-223. | 4.0 | 64 |
| 79 | 234 Th: 238 U disequilibria in the Gulf of Mexico: the importance of organic matter and particle concentration. Continental Shelf Research, 1996, 16, 353-380. | 1.8 | 63 |
| 80 | Can the protein/carbohydrate (P/C) ratio of exopolymeric substances (EPS) be used as a proxy for their â€˜stickinessâ€™ and aggregation propensity?. Marine Chemistry, 2020, 218, 103734. | 2.3 | 63 |
| 81 | Spectrophotometric determination of total uronic acids in seawater using cation-exchange separation and pre-concentration by lyophilization. Analytica Chimica Acta, 2001, 427, 111-117. | 5.4 | 62 |
| 82 | Colloidal Cutin-Like Substances Cross-Linked to Siderophore Decomposition Products Mobilizing Plutonium from Contaminated Soils. Environmental Science & Technology, 2008, 42, 8211-8217. | 10.0 | 62 |
| 83 | Terrestrially derived dissolved organic matter in the chesapeake bay and the middle atlantic bight. Geochimica Et Cosmochimica Acta, 2000, 64, 3547-3557. | 3.9 | 59 |
| 84 | Ultrafiltration and its Applications to Sampling and Characterisation of Aquatic Colloids. , 2007, , 159-221. | | 59 |
| 85 | Molecular environment of stable iodine and radioiodine (129I) in natural organic matter: Evidence inferred from NMR and binding experiments at environmentally relevant concentrations. Geochimica Et Cosmochimica Acta, 2012, 97, 166-182. | 3.9 | 59 |
| 86 | Accumulation rates and sources of sediments and organic carbon on the Palos Verdes shelf based on radioisotopic tracers (137Cs, 239,240Pu, 210Pb, 234Th, 238U and 14C). Marine Chemistry, 2001, 73, 125-152. | 2.3 | 57 |
| 87 | Evaluation of a Radioiodine Plume Increasing in Concentration at the Savannah River Site. Environmental Science & Technology, 2011, 45, 489-495. | 10.0 | 56 |
| 88 | Causes of Salt Marsh Erosion in Galveston Bay, Texas. Journal of Coastal Research, 2009, 252, 265-272. | 0.3 | 55 |
| 89 | Nano-plastics induce aquatic particulate organic matter (microgels) formation. Science of the Total Environment, 2020, 706, 135681. | 8.0 | 55 |
| 90 | Bacterial Production of Organic Acids Enhances H<sub>2</sub>O<sub>2</sub>-Dependent Iodide Oxidation. Environmental Science & Technology, 2012, 46, 4837-4844. | 10.0 | 54 |

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| 91 | Chemical composition and 234Th (IV) binding of extracellular polymeric substances (EPS) produced by the marine diatom Amphora sp.. Marine Chemistry, 2008, 112, 81-92. | 2.3 | 53 |
| 92 | Comparative evaluation of sediment trap and 234Th-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. | 2.3 | 51 |
| 93 | Adsorption characteristics of 210Pb, 210Po and 7Be onto micro-particle surfaces and the effects of macromolecular organic compounds. Geochimica Et Cosmochimica Acta, 2013, 107, 47-64. | 3.9 | 51 |
| 94 | Sediment Transport and Hg Recovery in Lavaca Bay, as Evaluated from Radionuclide and Hg Distributions. Environmental Science & Technology, 1999, 33, 378-391. | 10.0 | 50 |
| 95 | Sedimentary sources of old high molecular weight dissolved organic carbon from the ocean margin benthic nepheloid layer. Geochimica Et Cosmochimica Acta, 2000, 64, 651-660. | 3.9 | 50 |
| 96 | 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). Marine Chemistry, 2008, 112, 20-37. | 2.3 | 50 |
| 97 | Marine colloids, agents of the self-cleansing capacity of aquatic systems: Historical perspective and new discoveries. Marine Chemistry, 2018, 207, 124-135. | 2.3 | 50 |
| 98 | Seasonality in nutrient concentrations in Galveston Bay. Marine Environmental Research, 1995, 40, 337-362. | 2.5 | 49 |
| 99 | Comparative bioaccumulation studies of colloidally complexed and free-ionic heavy metals in juvenile brown shrimp Penaeus aztecus (Crustacea: Decapoda: Penaeidae). Limnology and Oceanography, 1999, 44, 403-414. | 3.1 | 49 |
| 100 | Benthic Exchange of Nutrients in Galveston Bay, Texas. Estuaries and Coasts, 2000, 23, 647. | 1.7 | 49 |
| 101 | Silver concentrations in Colorado, USA, watersheds using improved methodology. Environmental Toxicology and Chemistry, 2002, 21, 2040-2051. | 4.3 | 49 |
| 102 | Upper ocean carbon flux determined by the 234Th approach and sediment traps using size-fractionated POC and 234Th data from the Gulf of Mexico. Geochemical Journal, 2004, 38, 601-611. | 1.0 | 49 |
| 103 | The dissolved organic iodine species of the isotopic ratio of <sup>129</sup>I/<sup>127</sup>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. | 2.0 | 49 |
| 104 | Radioiodine sorption/desorption and speciation transformation by subsurface sediments from the Hanford Site. Journal of Environmental Radioactivity, 2015, 139, 43-55. | 1.7 | 48 |
| 105 | Unique Organic Matter and Microbial Properties in the Rhizosphere of a Wetland Soil. Environmental Science & Technology, 2016, 50, 4169-4177. | 10.0 | 48 |
| 106 | Role of natural organic matter on iodine and 239,240Pu distribution and mobility in environmental samples from the northwestern Fukushima Prefecture, Japan. Journal of Environmental Radioactivity, 2016, 153, 156-166. | 1.7 | 46 |
| 107 | Biogeochemical behavior of organic carbon in the Trinity River downstream of a large reservoir lake in Texas, USA. Science of the Total Environment, 2004, 329, 131-144. | 8.0 | 45 |
| 108 | Role of biopolymers as major carrier phases of Th, Pa, Pb, Po, and Be radionuclides in settling particles from the Atlantic Ocean. Marine Chemistry, 2013, 157, 131-143. | 2.3 | 44 |

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|---|---|---|---|
| 109 | Plant pigments as biomarkers of high-molecular-weight dissolved organic carbon. Limnology and Oceanography, 1995, 40, 422-428. | 3.1 | 42 |
| 110 | A seasonal survey of carbohydrates and uronic acids in the Trinity River, Texas. Organic Geochemistry, 2005, 36, 463-474. | 1.8 | 42 |
| 111 | Evidence for elevated levels of iodine-129 in the Deep Western Boundary Current in the Middle Atlantic Bight. Deep-Sea Research Part I: Oceanographic Research Papers, 1996, 43, 259-265. | 1.4 | 41 |
| 112 | Superoxide Production by a Manganese-Oxidizing Bacterium Facilitates Iodide Oxidation. Applied and Environmental Microbiology, 2014, 80, 2693-2699. | 3.1 | 41 |
| 113 | Dioxin Chronology and Fluxes in Sediments of the Houston Ship Channel, Texas:Â Influences of Non-Steady-State Sediment Transport and Total Organic Carbon. Environmental Science & Technology, 2007, 41, 5291-5298. | 10.0 | 40 |
| 114 | Response of photosynthesis and the antioxidant defense system of two microalgal species (Alexandrium minutum and Dunaliella salina) to the toxicity of BDE-47. Marine Pollution Bulletin, 2017, 124, 459-469. | 5.0 | 40 |
| 115 | Iodine and plutonium association with natural organic matter: A review of recent advances. Applied Geochemistry, 2017, 85, 121-127. | 3.0 | 40 |
| 116 | Thorium sorption in the marine environment: Equilibrium partitioning at the hematite/water interface, sorption/desorption kinetics and particle tracing. Aquatic Geochemistry, 1996, 1, 277-301. | 1.3 | 39 |
| 117 | Spontaneous Assembly of Exopolymers from Phytoplankton. Terrestrial, Atmospheric and Oceanic Sciences, 2009, 20, 741. | 0.6 | 39 |
| 118 | Controls of 234Th removal from the oligotrophic ocean by polyuronic acids and modification by microbial activity. Marine Chemistry, 2011, 123, 111-126. | 2.3 | 38 |
| 119 | Binding of Th, Pa, Pb, Po and Be radionuclides to marine colloidal macromolecular organic matter. Marine Chemistry, 2015, 173, 320-329. | 2.3 | 38 |
| 120 | Scavenging and fractionation of thorium vs. protactinium in the ocean, as determined from particleâ€“water partitioning experiments with sediment trap material from the Gulf of Mexico and Sargasso Sea. Earth and Planetary Science Letters, 2009, 286, 131-138. | 4.4 | 37 |
| 121 | Iodide Accumulation by Aerobic Bacteria Isolated from Subsurface Sediments of a <sup>129</sup> I-Contaminated Aquifer at the Savannah River Site, South Carolina. Applied and Environmental Microbiology, 2011, 77, 2153-2160. | 3.1 | 37 |
| 122 | 234Th in different size classes of sediment trap collected particles from the Northwestern Pacific Ocean. Geochimica Et Cosmochimica Acta, 2012, 91, 60-74. | 3.9 | 37 |
| 123 | Methods for analyzing the concentration and speciation of major and trace elements in marine particles. Progress in Oceanography, 2015, 133, 32-42. | 3.2 | 37 |
| 124 | Microbial Transformation of Iodine: From Radioisotopes to Iodine Deficiency. Advances in Applied Microbiology, 2017, 101, 83-136. | 2.4 | 36 |
| 125 | Effect of Engineered Nanoparticles on Exopolymeric Substances Release from Marine Phytoplankton. Nanoscale Research Letters, 2017, 12, 620. | 5.7 | 36 |
| 126 | Production and flux of carbohydrate species in the Gulf of Mexico. Global Biogeochemical Cycles, 2003, 17, n/a-n/a. | 4.9 | 34 |

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| 127 | Influence of organic matter on the adsorption of 210Pb, 210Po and 7Be and their fractionation on nanoparticles in seawater. Earth and Planetary Science Letters, 2015, 423, 193-201. | 4.4 | 34 |
| 128 | Light-induced aggregation of microbial exopolymeric substances. Chemosphere, 2017, 181, 675-681. | 8.2 | 34 |
| 129 | Nitrogen and carbon isotopic composition of high-molecular-weight dissolved organic matter in marine environments. Marine Ecology - Progress Series, 2003, 252, 51-60. | 1.9 | 34 |
| 130 | Evidence for Hydroxamate Siderophores and Other N-Containing Organic Compounds Controlling <sup>239,240</sup>Pu Immobilization and Remobilization in a Wetland Sediment. Environmental Science & Technology, 2015, 49, 11458-11467. | 10.0 | 33 |
| 131 | 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. Marine Chemistry, 2018, 206, 84-92. | 2.3 | 33 |
| 132 | Incorporation of oil into diatom aggregates. Marine Ecology - Progress Series, 2019, 612, 65-86. | 1.9 | 33 |
| 133 | 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. Journal of Environmental Radioactivity, 2017, 171, 226-233. | 1.7 | 31 |
| 134 | Plutonium Immobilization and Remobilization by Soil Mineral and Organic Matter in the Far-Field of the Savannah River Site, U.S.. Environmental Science & Technology, 2014, 48, 3186-3195. | 10.0 | 30 |
| 135 | Extracellular Enzyme Activity Profile in a Chemically Enhanced Water Accommodated Fraction of Surrogate Oil: Toward Understanding Microbial Activities After the Deepwater Horizon Oil Spill. Frontiers in Microbiology, 2018, 9, 798. | 3.5 | 30 |
| 136 | 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. | 9.6 | 29 |
| 137 | Identifying oil/marine snow associations in mesocosm simulations of the Deepwater Horizon oil spill event using solid-state 13C NMR spectroscopy. Marine Pollution Bulletin, 2018, 126, 159-165. | 5.0 | 29 |
| 138 | Radioiodine concentrated in a wetland. Journal of Environmental Radioactivity, 2014, 131, 57-61. | 1.7 | 28 |
| 139 | Response of natural phytoplankton communities exposed to crude oil and chemical dispersants during a mesocosm experiment. Aquatic Toxicology, 2019, 206, 43-53. | 4.0 | 28 |
| 140 | Application of cross-flow ultrafiltration for isolating exopolymeric substances from a marine diatom (Amphorasp.). Limnology and Oceanography: Methods, 2009, 7, 419-429. | 2.0 | 27 |
| 141 | The effects of sunlight on the composition of exopolymeric substances and subsequent aggregate formation during oil spills. Marine Chemistry, 2018, 203, 49-54. | 2.3 | 27 |
| 142 | Delivery of Trace Metals (Al, Fe, Mn, V, Co, Ni, Cu, Cd, Ag, Pb) from the Trinity River Watershed Towards the Ocean. Estuaries and Coasts, 2009, 32, 158-172. | 2.2 | 26 |
| 143 | Important role of biomolecules from diatoms in the scavenging of particleâ€reactive radionuclides of thorium, protactinium, lead, polonium, and beryllium in the ocean: A case study with Phaeodactylum tricornutum. Limnology and Oceanography, 2014, 59, 1256-1266. | 3.1 | 26 |
| 144 | The role of microbially-mediated exopolymeric substances (EPS) in regulating Macondo oil transport in a mesocosm experiment. Marine Chemistry, 2018, 206, 52-61. | 2.3 | 26 |

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|---|---|---|---|
| 145 | Protein to carbohydrate (P/C) ratio changes in microbial extracellular polymeric substances induced by oil and Corexit. Marine Chemistry, 2020, 223, 103789. | 2.3 | 26 |
| 146 | Polycyclic aromatic hydrocarbons (PAHs) and putative PAH-degrading bacteria in Galveston Bay, TX (USA), following Hurricane Harvey (2017). Environmental Science and Pollution Research, 2020, 27, 34987-34999. | 5.3 | 26 |
| 147 | Sunlight induced aggregation of dissolved organic matter: Role of proteins in linking organic carbon and nitrogen cycling in seawater. Science of the Total Environment, 2019, 654, 872-877. | 8.0 | 25 |
| 148 | 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. Marine Chemistry, 2018, 206, 34-43. | 2.3 | 24 |
| 149 | Molecular weight and chemical reactivity of dissolved trace metals (Cd, Cu, Ni) in surface waters from the Mississippi River to Gulf of Mexico. Estuarine, Coastal and Shelf Science, 2011, 92, 649-658. | 2.1 | 23 |
| 150 | Comparison of microgels, extracellular polymeric substances (EPS) and transparent exopolymeric particles (TEP) determined in seawater with and without oil. Marine Chemistry, 2019, 215, 103667. | 2.3 | 23 |
| 151 | Geochemical controls of iodine uptake and transport in Savannah River Site subsurface sediments. Applied Geochemistry, 2014, 45, 105-113. | 3.0 | 22 |
| 152 | Impact of exposure of crude oil and dispersant (Corexit) on aggregation of extracellular polymeric substances. Science of the Total Environment, 2019, 657, 1535-1542. | 8.0 | 22 |
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