## Steven Emerson

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	The geochemistry of redox sensitive trace metals in sediments. Geochimica Et Cosmochimica Acta, 1999, 63, 1735-1750.	3.9	991
2	Ocean anoxia and the concentrations of molybdenum and vanadium in seawater. Marine Chemistry, 1991, 34, 177-196.	2.3	643
3	Experimental determination of the organic carbon flux from open-ocean surface waters. Nature, 1997, 389, 951-954.	27.8	297
4	The solubility of neon, nitrogen and argon in distilled water and seawater. Deep-Sea Research Part I: Oceanographic Research Papers, 2004, 51, 1517-1528.	1.4	280
5	Volcanic ash fuels anomalous plankton bloom in subarctic northeast Pacific. Geophysical Research Letters, 2010, 37, .	4.0	238
6	Trace metal evidence for changes in the redox environment associated with the transition from terrigenous clay to diatomaceous sediment, Saanich Inlet, BC. Marine Geology, 2001, 174, 355-369.	2.1	163
7	Annual net community production and the biological carbon flux in the ocean. Global Biogeochemical Cycles, 2014, 28, 14-28.	4.9	160
8	A model of oxygen reduction, denitrification, and organic matter mineralization in marine sediments1. Limnology and Oceanography, 1982, 27, 610-623.	3.1	153
9	O <sub>2</sub> , Ar, N <sub>2</sub> , and <sup>222</sup> Rn in surface waters of the subarctic Ocean: Net biological O <sub>2</sub> production. Global Biogeochemical Cycles, 1991, 5, 49-69.	4.9	153
10	Microbial mediation of Mn(II) and Co(II) precipitation at the O <sub>2</sub> /H <sub>2</sub> S interfaces in two anoxic fjords1. Limnology and Oceanography, 1984, 29, 1247-1258.	3.1	131
11	Temporal Trends in Apparent Oxygen Utilization in the Upper Pycnocline of the North Pacific: 1980–2000. Journal of Oceanography, 2004, 60, 139-147.	1.7	129
12	Accurate measurement of O2, N2, and Ar gases in water and the solubility of N2. Marine Chemistry, 1999, 64, 337-347.	2.3	122
13	Seasonal oxygen cycles and biological new production in surface waters of the subarctic Pacific Ocean. Journal of Geophysical Research, 1987, 92, 6535-6544.	3.3	113
14	Chemical tracers of productivity and respiration in the subtropical Pacific Ocean. Journal of Geophysical Research, 1995, 100, 15873.	3.3	110
15	The biological pump in the subtropical North Pacific Ocean: Nutrient sources, Redfield ratios, and recent changes. Global Biogeochemical Cycles, 2001, 15, 535-554.	4.9	108
16	Direct measurement of the diffusive sublayer at the deep sea floor using oxygen microelectrodes. Nature, 1989, 340, 623-626.	27.8	100
17	Organic Carbon Preservation in Marine Sediments. Geophysical Monograph Series, 0, , 78-87.	0.1	100
18	Oxygen Optode Sensors: Principle, Characterization, Calibration, and Application in the Ocean. Frontiers in Marine Science, 2018, 4, .	2.5	100

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19	Constraining bubble dynamics and mixing with dissolved gases: Implications for productivity measurements by oxygen mass balance. Journal of Marine Research, 2006, 64, 73-95.	0.3	83
20	Net community production in the deep euphotic zone of the subtropical North Pacific gyre from glider surveys. Limnology and Oceanography, 2008, 53, 2226-2236.	3.1	82
21	Estimating diffusivity from the mixed layer heat and salt balances in the <scp>N</scp> orth <scp>P</scp> acific. Journal of Geophysical Research: Oceans, 2015, 120, 7346-7362.	2.6	82
22	Vanadium in foraminiferal calcite as a tracer for changes in the areal extent of reducing sediments. Paleoceanography, 1996, 11, 665-678.	3.0	80
23	Physical-biological interactions in North Pacific oxygen variability. Journal of Geophysical Research, 2006, 111, .	3.3	76
24	Effect of Oxygen Tension, Mn(II) Concentration, and Temperature on the Microbially Catalyzed Mn(II) Oxidation Rate in a Marine Fjord. Applied and Environmental Microbiology, 1985, 50, 1268-1273.	3.1	76
25	Net biological oxygen production in the ocean: Remote in situ measurements of O <sub>2</sub> and N <sub>2</sub> in surface waters. Clobal Biogeochemical Cycles, 2008, 22, .	4.9	75
26	Ocean deoxygenation: Past, present, and future. Eos, 2011, 92, 409-410.	0.1	75
27	Mechanisms controlling the global oceanic distribution of the inert gases argon, nitrogen and neon. Geophysical Research Letters, 2002, 29, 35-1-35-4.	4.0	73
28	Microbial manganese(II) oxidation in the marine environment: a quantitative study. Biogeochemistry, 1986, 2, 149-161.	3.5	68
29	Fingerprints of climate change in North Pacific oxygen. Geophysical Research Letters, 2005, 32, .	4.0	66
30	In situ determination of oxygen and nitrogen dynamics in the upper ocean. Deep-Sea Research Part I: Oceanographic Research Papers, 2002, 49, 941-952.	1.4	64
31	Estimates of degradable organic carbon in deep-sea surface sediments from 14C concentrations. Nature, 1987, 329, 51-53.	27.8	60
32	Net biological oxygen production in the ocean—II: Remote in situ measurements of O2 and N2 in subarctic pacific surface waters. Deep-Sea Research Part I: Oceanographic Research Papers, 2010, 57, 1255-1265.	1.4	57
33	Marine biological production from in situ oxygen measurements on a profiling float in the subarctic Pacific Ocean. Global Biogeochemical Cycles, 2015, 29, 2050-2060.	4.9	57
34	Denitrification and the nitrogen gas excess in the eastern tropical South Pacific oxygen deficient zone. Deep-Sea Research Part I: Oceanographic Research Papers, 2010, 57, 1092-1101.	1.4	53
35	Accurate oxygen measurements on modified <scp>A</scp> rgo floats using in situ air calibrations. Limnology and Oceanography: Methods, 2016, 14, 491-505.	2.0	52
36	The effect of the 2013–2016 high temperature anomaly in the subarctic Northeast Pacific (the "Blobâ€) on net community production. Biogeosciences, 2018, 15, 6747-6759.	3.3	43

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37	Annual net community production in the subtropical Pacific Ocean from in situ oxygen measurements on profiling floats. Global Biogeochemical Cycles, 2017, 31, 728-744.	4.9	42
38	Determination of Picogram Quantities of Vanadium in Calcite and Seawater by Isotope Dilution Inductively Coupled Plasma Mass Spectrometry with Electrothermal Vaporization. Analytical Chemistry, 1996, 68, 371-377.	6.5	39
39	The role of bubbles during airâ€sea gas exchange. Journal of Geophysical Research: Oceans, 2016, 121, 4360-4376.	2.6	39
40	Numerical hindcasting of sea surface pCO2 at Weathership Station Papa. Progress in Oceanography, 1993, 32, 319-351.	3.2	33
41	Fixed nitrogen loss from the eastern tropical North Pacific and Arabian Sea oxygen deficient zones determined from measurements of N <sub>2</sub> :Ar. Global Biogeochemical Cycles, 2012, 26, .	4.9	33
42	Ventilation Pathways for the North Pacific Oxygen Deficient Zone. Global Biogeochemical Cycles, 2019, 33, 875-890.	4.9	32
43	Using Noble Gases to Assess the Ocean's Carbon Pumps. Annual Review of Marine Science, 2019, 11, 75-103.	11.6	30
44	Vertical transport of anthropogenic mercury in the ocean. Global Biogeochemical Cycles, 2010, 24, .	4.9	28
45	On the role of seaâ€state in bubbleâ€mediated airâ€sea gas flux during a winter storm. Journal of Geophysical Research: Oceans, 2017, 122, 2671-2685.	2.6	25
46	The role of net community production in airâ€sea carbon fluxes at the North Pacific subarcticâ€subtropical boundary region. Limnology and Oceanography, 2010, 55, 2585-2596.	3.1	24
47	Biological productivity along Line P in the subarctic northeast Pacific: In situ versus incubationâ€based methods. Global Biogeochemical Cycles, 2012, 26, .	4.9	24
48	Constraining ventilation during deepwater formation using deep ocean measurements of the dissolved gas ratios <sup>40</sup> Ar/ <sup>36</sup> Ar, N <sub>2</sub> /Ar, and Kr/Ar. Journal of Geophysical Research, 2010, 115, .	3.3	23
49	Airâ€Sea Gas Transfer: Determining Bubble Fluxes With In Situ N <sub>2</sub> Observations. Journal of Geophysical Research: Oceans, 2019, 124, 2716-2727.	2.6	23
50	Gas supersaturation in the surface ocean: The roles of heat flux, gas exchange, and bubbles. Deep-Sea Research Part II: Topical Studies in Oceanography, 1996, 43, 569-589.	1.4	22
51	Quantifying the flux of CaCO <sub>3</sub> and organic carbon from the surface ocean using in situ measurements of O <sub>2</sub> , N <sub>2</sub> , pCO <sub>2</sub> , and pH. Global Biogeochemical Cycles, 2011, 25, n/a-n/a.	4.9	22
52	Using Noble Gas Measurements to Derive Airâ€5ea Process Information and Predict Physical Gas Saturations. Geophysical Research Letters, 2017, 44, 9901-9909.	4.0	17
53	Impact of diapycnal mixing on the saturation state of argon in the subtropical North Pacific. Geophysical Research Letters, 2007, 34, .	4.0	16
54	Argon supersaturation indicates low decadalâ€scale vertical mixing in the ocean thermocline. Geophysical Research Letters, 2012, 39, .	4.0	15

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55	In Situ Estimates of Net Primary Production in the Western North Atlantic With Argo Profiling Floats. Journal of Geophysical Research G: Biogeosciences, 2021, 126, e2020JG006116.	3.0	15
56	Physicochemical and biological controls on primary and net community production across northeast Pacific seascapes. Limnology and Oceanography, 2014, 59, 2013-2027.	3.1	14
57	The Subtropical Ocean's Biological Carbon Pump Determined From O <sub>2</sub> and DIC/DI <sup>13</sup> C Tracers. Geophysical Research Letters, 2019, 46, 5361-5368.	4.0	14
58	Biological and physical controls on the oxygen cycle in the Kuroshio Extension from an array of profiling floats. Deep-Sea Research Part I: Oceanographic Research Papers, 2018, 141, 51-70.	1.4	13
59	Regional Pattern of the Ocean's Biological Pump Based on Geochemical Observations. Geophysical Research Letters, 2020, 47, e2020GL088098.	4.0	13
60	Deepâ€sea nutrient loss inferred from the marine dissolved N <sub>2</sub> /Ar ratio. Geophysical Research Letters, 2013, 40, 1149-1153.	4.0	11
61	Seaglider Surveys at Ocean Station Papa: Oxygen Kinematics and Upperâ€Ocean Metabolism. Journal of Geophysical Research: Oceans, 2018, 123, 6408-6427.	2.6	11
62	Subsurface ocean argon disequilibrium reveals the equatorial Pacific shadow zone. Geophysical Research Letters, 2006, 33, n/a-n/a.	4.0	10
63	Suppression of CO <sub>2</sub> Outgassing by Gas Bubbles Under a Hurricane. Geophysical Research Letters, 2020, 47, e2020GL090249.	4.0	10
64	In situ and remote monitoring of water quality in Puget Sound: The ORCA time-series. , 2006, , .		5
65	Skin Temperature Correction for Calculations of Airâ€5ea Oxygen Flux and Annual Net Community Production. Geophysical Research Letters. 2022, 49	4.0	4