

Steven Emerson

List of Publications by Year in descending order

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65
papers

6,117
citations

94433

37
h-index

114465

63
g-index

68
all docs

68
docs citations

68
times ranked

5089
citing authors

#	ARTICLE	IF	CITATIONS
1	Skin Temperature Correction for Calculations of Air–Sea Oxygen Flux and Annual Net Community Production. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	4
2	In Situ Estimates of Net Primary Production in the Western North Atlantic With Argo Profiling Floats. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021, 126, e2020JG006116.	3.0	15
3	Suppression of CO ₂ Outgassing by Gas Bubbles Under a Hurricane. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL090249.	4.0	10
4	Regional Pattern of the Ocean's Biological Pump Based on Geochemical Observations. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088098.	4.0	13
5	Ventilation Pathways for the North Pacific Oxygen Deficient Zone. <i>Global Biogeochemical Cycles</i> , 2019, 33, 875-890.	4.9	32
6	The Subtropical Ocean's Biological Carbon Pump Determined From O ₂ and DIC/DI ¹³ C Tracers. <i>Geophysical Research Letters</i> , 2019, 46, 5361-5368.	4.0	14
7	Air–Sea Gas Transfer: Determining Bubble Fluxes With In Situ N ₂ Observations. <i>Journal of Geophysical Research: Oceans</i> , 2019, 124, 2716-2727.	2.6	23
8	Using Noble Gases to Assess the Ocean's Carbon Pumps. <i>Annual Review of Marine Science</i> , 2019, 11, 75-103.	11.6	30
9	Biological and physical controls on the oxygen cycle in the Kuroshio Extension from an array of profiling floats. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2018, 141, 51-70.	1.4	13
10	The effect of the 2013–2016 high temperature anomaly in the subarctic Northeast Pacific (the “Blob”) on net community production. <i>Biogeosciences</i> , 2018, 15, 6747-6759.	3.3	43
11	Seaglider Surveys at Ocean Station Papa: Oxygen Kinematics and Upper–Ocean Metabolism. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 6408-6427.	2.6	11
12	Oxygen Optode Sensors: Principle, Characterization, Calibration, and Application in the Ocean. <i>Frontiers in Marine Science</i> , 2018, 4, .	2.5	100
13	On the role of sea–state in bubble-mediated air–sea gas flux during a winter storm. <i>Journal of Geophysical Research: Oceans</i> , 2017, 122, 2671-2685.	2.6	25
14	Annual net community production in the subtropical Pacific Ocean from in situ oxygen measurements on profiling floats. <i>Global Biogeochemical Cycles</i> , 2017, 31, 728-744.	4.9	42
15	Using Noble Gas Measurements to Derive Air–Sea Process Information and Predict Physical Gas Saturations. <i>Geophysical Research Letters</i> , 2017, 44, 9901-9909.	4.0	17
16	Accurate oxygen measurements on modified Argo floats using in situ air calibrations. <i>Limnology and Oceanography: Methods</i> , 2016, 14, 491-505.	2.0	52
17	The role of bubbles during air–sea gas exchange. <i>Journal of Geophysical Research: Oceans</i> , 2016, 121, 4360-4376.	2.6	39
18	Estimating diffusivity from the mixed layer heat and salt balances in the North Pacific. <i>Journal of Geophysical Research: Oceans</i> , 2015, 120, 7346-7362.	2.6	82

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19	Marine biological production from in situ oxygen measurements on a profiling float in the subarctic Pacific Ocean. <i>Global Biogeochemical Cycles</i> , 2015, 29, 2050-2060.	4.9	57
20	Physicochemical and biological controls on primary and net community production across northeast Pacific seascapes. <i>Limnology and Oceanography</i> , 2014, 59, 2013-2027.	3.1	14
21	Annual net community production and the biological carbon flux in the ocean. <i>Global Biogeochemical Cycles</i> , 2014, 28, 14-28.	4.9	160
22	Deep-sea nutrient loss inferred from the marine dissolved N_2/Ar ratio. <i>Geophysical Research Letters</i> , 2013, 40, 1149-1153.	4.0	11
23	Fixed nitrogen loss from the eastern tropical North Pacific and Arabian Sea oxygen deficient zones determined from measurements of $N_2:Ar$. <i>Global Biogeochemical Cycles</i> , 2012, 26, .	4.9	33
24	Biological productivity along Line P in the subarctic northeast Pacific: In situ versus incubation-based methods. <i>Global Biogeochemical Cycles</i> , 2012, 26, .	4.9	24
25	Argon supersaturation indicates low decadal-scale vertical mixing in the ocean thermocline. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	15
26	Quantifying the flux of $CaCO_3$ and organic carbon from the surface ocean using in situ measurements of O_2 , N_2 , pCO_2 , and pH. <i>Global Biogeochemical Cycles</i> , 2011, 25, n/a-n/a.	4.9	22
27	Ocean deoxygenation: Past, present, and future. <i>Eos</i> , 2011, 92, 409-410.	0.1	75
28	The role of net community production in air-sea carbon fluxes at the North Pacific subarctic-subtropical boundary region. <i>Limnology and Oceanography</i> , 2010, 55, 2585-2596.	3.1	24
29	Vertical transport of anthropogenic mercury in the ocean. <i>Global Biogeochemical Cycles</i> , 2010, 24, .	4.9	28
30	Volcanic ash fuels anomalous plankton bloom in subarctic northeast Pacific. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	238
31	Constraining ventilation during deepwater formation using deep ocean measurements of the dissolved gas ratios $^{40}Ar/^{36}Ar$, N_2/Ar , and Kr/Ar . <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	23
32	Denitrification and the nitrogen gas excess in the eastern tropical South Pacific oxygen deficient zone. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2010, 57, 1092-1101.	1.4	53
33	Net biological oxygen production in the ocean: Remote in situ measurements of O_2 and N_2 in subarctic pacific surface waters. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2010, 57, 1255-1265.	1.4	57
34	Net biological oxygen production in the ocean: Remote in situ measurements of O_2 and N_2 in surface waters. <i>Global Biogeochemical Cycles</i> , 2008, 22, .	4.9	75
35	Net community production in the deep euphotic zone of the subtropical North Pacific gyre from glider surveys. <i>Limnology and Oceanography</i> , 2008, 53, 2226-2236.	3.1	82
36	Impact of diapycnal mixing on the saturation state of argon in the subtropical North Pacific. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	16

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37	Physical-biological interactions in North Pacific oxygen variability. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	76
38	Subsurface ocean argon disequilibrium reveals the equatorial Pacific shadow zone. <i>Geophysical Research Letters</i> , 2006, 33, n/a-n/a.	4.0	10
39	In situ and remote monitoring of water quality in Puget Sound: The ORCA time-series. , 2006, , .		5
40	Constraining bubble dynamics and mixing with dissolved gases: Implications for productivity measurements by oxygen mass balance. <i>Journal of Marine Research</i> , 2006, 64, 73-95.	0.3	83
41	Fingerprints of climate change in North Pacific oxygen. <i>Geophysical Research Letters</i> , 2005, 32, .	4.0	66
42	Temporal Trends in Apparent Oxygen Utilization in the Upper Pycnocline of the North Pacific: 1980â€“2000. <i>Journal of Oceanography</i> , 2004, 60, 139-147.	1.7	129
43	The solubility of neon, nitrogen and argon in distilled water and seawater. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2004, 51, 1517-1528.	1.4	280
44	Mechanisms controlling the global oceanic distribution of the inert gases argon, nitrogen and neon. <i>Geophysical Research Letters</i> , 2002, 29, 35-1-35-4.	4.0	73
45	In situ determination of oxygen and nitrogen dynamics in the upper ocean. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2002, 49, 941-952.	1.4	64
46	The biological pump in the subtropical North Pacific Ocean: Nutrient sources, Redfield ratios, and recent changes. <i>Global Biogeochemical Cycles</i> , 2001, 15, 535-554.	4.9	108
47	Trace metal evidence for changes in the redox environment associated with the transition from terrigenous clay to diatomaceous sediment, Saanich Inlet, BC. <i>Marine Geology</i> , 2001, 174, 355-369.	2.1	163
48	Accurate measurement of O ₂ , N ₂ , and Ar gases in water and the solubility of N ₂ . <i>Marine Chemistry</i> , 1999, 64, 337-347.	2.3	122
49	The geochemistry of redox sensitive trace metals in sediments. <i>Geochimica Et Cosmochimica Acta</i> , 1999, 63, 1735-1750.	3.9	991
50	Experimental determination of the organic carbon flux from open-ocean surface waters. <i>Nature</i> , 1997, 389, 951-954.	27.8	297
51	Determination of Picogram Quantities of Vanadium in Calcite and Seawater by Isotope Dilution Inductively Coupled Plasma Mass Spectrometry with Electrothermal Vaporization. <i>Analytical Chemistry</i> , 1996, 68, 371-377.	6.5	39
52	Gas supersaturation in the surface ocean: The roles of heat flux, gas exchange, and bubbles. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 1996, 43, 569-589.	1.4	22
53	Vanadium in foraminiferal calcite as a tracer for changes in the areal extent of reducing sediments. <i>Paleoceanography</i> , 1996, 11, 665-678.	3.0	80
54	Chemical tracers of productivity and respiration in the subtropical Pacific Ocean. <i>Journal of Geophysical Research</i> , 1995, 100, 15873.	3.3	110

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55	Numerical hindcasting of sea surface pCO ₂ at Weathership Station Papa. <i>Progress in Oceanography</i> , 1993, 32, 319-351.	3.2	33
56	O ₂ , Ar, N ₂ , and ²²² Rn in surface waters of the subarctic Ocean: Net biological O ₂ production. <i>Global Biogeochemical Cycles</i> , 1991, 5, 49-69.	4.9	153
57	Ocean anoxia and the concentrations of molybdenum and vanadium in seawater. <i>Marine Chemistry</i> , 1991, 34, 177-196.	2.3	643
58	Direct measurement of the diffusive sublayer at the deep sea floor using oxygen microelectrodes. <i>Nature</i> , 1989, 340, 623-626.	27.8	100
59	Seasonal oxygen cycles and biological new production in surface waters of the subarctic Pacific Ocean. <i>Journal of Geophysical Research</i> , 1987, 92, 6535-6544.	3.3	113
60	Estimates of degradable organic carbon in deep-sea surface sediments from ¹⁴ C concentrations. <i>Nature</i> , 1987, 329, 51-53.	27.8	60
61	Microbial manganese(II) oxidation in the marine environment: a quantitative study. <i>Biogeochemistry</i> , 1986, 2, 149-161.	3.5	68
62	Effect of Oxygen Tension, Mn(II) Concentration, and Temperature on the Microbially Catalyzed Mn(II) Oxidation Rate in a Marine Fjord. <i>Applied and Environmental Microbiology</i> , 1985, 50, 1268-1273.	3.1	76
63	Microbial mediation of Mn(II) and Co(II) precipitation at the O ₂ /H ₂ S interfaces in two anoxic fjords ¹ . <i>Limnology and Oceanography</i> , 1984, 29, 1247-1258.	3.1	131
64	A model of oxygen reduction, denitrification, and organic matter mineralization in marine sediments ¹ . <i>Limnology and Oceanography</i> , 1982, 27, 610-623.	3.1	153
65	Organic Carbon Preservation in Marine Sediments. <i>Geophysical Monograph Series</i> , 0, , 78-87.	0.1	100