

# Jay Cullen

## List of Publications by Year in descending order

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Version: 2024-02-01

64  
papers

3,121  
citations

159525

30  
h-index

155592

55  
g-index

67  
all docs

67  
docs citations

67  
times ranked

3339  
citing authors

#	ARTICLE	IF	CITATIONS
1	Iron availability, cellular iron quotas, and nitrogen fixation in <i>Trichodesmium</i> . <i>Limnology and Oceanography</i> , 2001, 46, 1249-1260.	1.6	342
2	The GEOTRACES Intermediate Data Product 2017. <i>Chemical Geology</i> , 2018, 493, 210-223.	1.4	257
3	Developing Standards for Dissolved Iron in Seawater. <i>Eos</i> , 2007, 88, 131.	0.1	237
4	Modulation of cadmium uptake in phytoplankton by seawater CO <sub>2</sub> concentration. <i>Nature</i> , 1999, 402, 165-167.	13.7	135
5	Thermodynamic characterization of the partitioning of iron between soluble and colloidal species in the Atlantic Ocean. <i>Marine Chemistry</i> , 2006, 98, 295-303.	0.9	120
6	Undocumented water column sink for cadmium in open ocean oxygen-deficient zones. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 6888-6893.	3.3	115
7	Effect of iron limitation on the cadmium to phosphorus ratio of natural phytoplankton assemblages from the Southern Ocean. <i>Limnology and Oceanography</i> , 2003, 48, 1079-1087.	1.6	105
8	Techniques for determination of trace metals in small samples of size-fractionated particulate matter: phytoplankton metals off central California. <i>Marine Chemistry</i> , 1999, 67, 233-247.	0.9	95
9	Direct electrochemical detection and sizing of silver nanoparticles in seawater media. <i>Nanoscale</i> , 2013, 5, 174-177.	2.8	88
10	Direct determination of 10 trace metals in 50 $\mu$ L samples of coastal seawater using desolvating micronebulization sector field ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 1999, 14, 1425-1431.	1.6	86
11	Title is missing!. <i>Journal of Analytical Atomic Spectrometry</i> , 2001, 16, 1307-1312.	1.6	85
12	On the nonlinear relationship between dissolved cadmium and phosphate in the modern global ocean: Could chronic iron limitation of phytoplankton growth cause the kink?. <i>Limnology and Oceanography</i> , 2006, 51, 1369-1380.	1.6	80
13	Effects of iron limitation on intracellular cadmium of cultured phytoplankton: Implications for surface dissolved cadmium to phosphate ratios. <i>Marine Chemistry</i> , 2009, 115, 155-162.	0.9	67
14	Plankton copper requirements and uptake in the subarctic Northeast Pacific Ocean. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2009, 56, 1130-1142.	0.6	66
15	Effects of dissolved carbon dioxide, zinc, and manganese on the cadmium to phosphorus ratio in natural phytoplankton assemblages. <i>Limnology and Oceanography</i> , 2005, 50, 1193-1204.	1.6	61
16	Biogeochemistry of Cadmium and Its Release to the Environment. <i>Metal Ions in Life Sciences</i> , 2013, 11, 31-62.	2.8	60
17	Biogeochemical impact of summertime coastal upwelling on the New Jersey Shelf. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	57
18	Electrochemical detection of commercial silver nanoparticles: identification, sizing and detection in environmental media. <i>Nanotechnology</i> , 2013, 24, 444002.	1.3	52

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19	Colimitation by light, nitrate, and iron in the Beaufort Sea in late summer. <i>Journal of Geophysical Research: Oceans</i> , 2013, 118, 3260-3277.	1.0	52
20	British Columbian continental shelf as a source of dissolved iron to the subarctic northeast Pacific Ocean. <i>Global Biogeochemical Cycles</i> , 2009, 23, .	1.9	49
21	Nanometals Induce Stress and Alter Thyroid Hormone Action in Amphibia at or below North American Water Quality Guidelines. <i>Environmental Science &amp; Technology</i> , 2010, 44, 8314-8321.	4.6	48
22	The effect of anthropogenic CO <sub>2</sub> on the carbon isotope composition of marine phytoplankton. <i>Limnology and Oceanography</i> , 2001, 46, 996-998.	1.6	46
23	Determination of Mn, Fe, Ni, Cu, Zn, Cd and Pb in seawater using offline extraction and triple quadrupole ICP-MS/MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2018, 33, 304-313.	1.6	46
24	The interaction between inorganic iron and cadmium uptake in the marine diatom <i>Thalassiosira oceanica</i> . <i>Limnology and Oceanography</i> , 2008, 53, 1784-1789.	1.6	45
25	Decoupling of zinc and silicic acid in the subarctic northeast Pacific interior. <i>Marine Chemistry</i> , 2015, 177, 124-133.	0.9	45
26	The Common Oceanographer: Crowdsourcing the Collection of Oceanographic Data. <i>PLoS Biology</i> , 2014, 12, e1001947.	2.6	41
27	A call for refining the role of humic-like substances in the oceanic iron cycle. <i>Scientific Reports</i> , 2020, 10, 6144.	1.6	37
28	Recent Transport History of Fukushima Radioactivity in the Northeast Pacific Ocean. <i>Environmental Science &amp; Technology</i> , 2017, 51, 10494-10502.	4.6	34
29	The relationship between zinc, its isotopes, and the major nutrients in the North-East Pacific. <i>Earth and Planetary Science Letters</i> , 2019, 525, 115748.	1.8	34
30	Processes controlling the distributions of Cd and PO <sub>4</sub> in the ocean. <i>Global Biogeochemical Cycles</i> , 2015, 29, 830-841.	1.9	32
31	Fine-scale spatial and interannual cadmium isotope variability in the subarctic northeast Pacific. <i>Earth and Planetary Science Letters</i> , 2017, 472, 241-252.	1.8	32
32	Dissolved copper (dCu) biogeochemical cycling in the subarctic Northeast Pacific and a call for improving methodologies. <i>Marine Chemistry</i> , 2017, 196, 47-61.	0.9	31
33	Dissolved iron and manganese in the Canadian Arctic Ocean: On the biogeochemical processes controlling their distributions. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 277, 150-174.	1.6	31
34	Verification of mid-ocean ballast water exchange using naturally occurring coastal tracers. <i>Marine Pollution Bulletin</i> , 2004, 48, 711-730.	2.3	28
35	Early response of the northeast subarctic Pacific plankton assemblage to volcanic ash fertilization. <i>Limnology and Oceanography</i> , 2014, 59, 55-67.	1.6	28
36	A disposable sticky electrode for the detection of commercial silver NPs in seawater. <i>Nanotechnology</i> , 2013, 24, 505501.	1.3	27

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37	Seasonal and spatial variabilities in northern Gulf of Alaska surface water iron concentrations driven by shelf sediment resuspension, glacial meltwater, a Yakutat eddy, and dust. <i>Global Biogeochemical Cycles</i> , 2017, 31, 942-960.	1.9	25
38	Particulate cadmium stable isotopes in the subarctic northeast Pacific reveal dynamic Cd cycling and a new isotopically light Cd sink. <i>Earth and Planetary Science Letters</i> , 2019, 515, 67-78.	1.8	25
39	Cyanobacterial copper-binding ligands isolated from artificial seawater cultures. <i>Marine Chemistry</i> , 2008, 110, 28-41.	0.9	24
40	Structural characterization of S100A15 reveals a novel zinc coordination site among S100 proteins and altered surface chemistry with functional implications for receptor binding. <i>BMC Structural Biology</i> , 2012, 12, 16.	2.3	21
41	Gold electrodes from recordable CDs for the sensitive, semi-quantitative detection of commercial silver nanoparticles in seawater media. <i>Sensors and Actuators B: Chemical</i> , 2014, 195, 223-229.	4.0	19
42	Iron(II) variability in the northeast subarctic Pacific Ocean. <i>Marine Chemistry</i> , 2015, 177, 33-44.	0.9	19
43	Silver in the subarctic northeast Pacific Ocean: Explaining the basin scale distribution of silver. <i>Marine Chemistry</i> , 2011, 123, 133-142.	0.9	18
44	Characterization of adsorbed microlayer thickness on an oceanic glass plate sampler. <i>Limnology and Oceanography: Methods</i> , 2012, 10, 728-735.	1.0	17
45	Iron-copper interactions in iron-limited phytoplankton in the northeast subarctic Pacific Ocean. <i>Limnology and Oceanography</i> , 2016, 61, 279-297.	1.6	17
46	Elevated sources of cobalt in the Arctic Ocean. <i>Biogeosciences</i> , 2020, 17, 4745-4767.	1.3	17
47	Did natural reactors form as a consequence of the emergence of oxygenic photosynthesis during the Archean?. <i>GSA Today</i> , 2009, 19, 4-10.	1.1	15
48	Dissolved iron and iron(II) distributions beneath the pack ice in the East Antarctic (120°E) during the winter/spring transition. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2016, 131, 96-110.	0.6	14
49	2. Biogeochemistry of Lead. Its Release to the Environment and Chemical Speciation. , 2017, 17, 21-48.		11
50	Distribution of copper-complexing ligands in Canadian Arctic waters as determined by immobilized copper(II)-ion affinity chromatography. <i>Marine Chemistry</i> , 2019, 215, 103673.	0.9	11
51	Determination of Total Free Sulphides in Sediment Porewater and Artefacts Related to the Mobility of Mineral Sulphides. <i>Aquatic Geochemistry</i> , 2011, 17, 821-839.	1.5	9
52	The distribution of dissolved and total dissolvable aluminum in the Beaufort Sea and Canada Basin region of the Arctic Ocean. <i>Journal of Geophysical Research: Oceans</i> , 2013, 118, 6824-6837.	1.0	9
53	Temporal variability of dissolved iron species in the mesopelagic zone at Ocean Station PAPA. <i>Journal of Marine Systems</i> , 2017, 172, 128-136.	0.9	9
54	Anthropogenic lead pervasive in Canadian Arctic seawater. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	9

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55	Arctic ↔ Atlantic Exchange of the Dissolved Micronutrients Iron, Manganese, Cobalt, Nickel, Copper and Zinc With a Focus on Fram Strait. <i>Global Biogeochemical Cycles</i> , 2022, 36, .	1.9	9
56	Autocalibrating Stokes polarimeter for materials characterization. <i>Applied Optics</i> , 2012, 51, 4113.	0.9	6
57	Changes in Fe Oxidation Rate in Hydrothermal Plumes as a Potential Driver of Enhanced Hydrothermal Input to Near-Ridge Sediments During Glacial Terminations. <i>Geophysical Research Letters</i> , 2017, 44, 11,951.	1.5	5
58	Sewage treatment wasted ↔ The Victoria (BC, Canada) example. <i>Marine Pollution Bulletin</i> , 2008, 56, 1815-1816.	2.3	4
59	Particulate trace metal dynamics in response to increased CO <sub>2</sub> and iron availability in a coastal mesocosm experiment. <i>Biogeosciences</i> , 2020, 17, 757-770.	1.3	4
60	<sup>210</sup> Po in Pacific Salmon from the West Coast of Canada and its Contribution to Dose by Ingestion. <i>Health Physics</i> , 2019, 117, 248-253.	0.3	3
61	A Refinement of the Processes Controlling Dissolved Copper and Nickel Biogeochemistry: Insights From the Pan-Arctic. <i>Journal of Geophysical Research: Oceans</i> , 2022, 127, .	1.0	3
62	Evidence for the production of copper-complexing ligands by marine phytoplankton in the subarctic northeast Pacific. <i>Marine Chemistry</i> , 2021, 237, 104034.	0.9	2
63	Relationship between surface dissolved iron inventories and net community production during a marine heatwave in the subarctic northeast Pacific. <i>Environmental Sciences: Processes and Impacts</i> , 2022, , .	1.7	1
64	Factors controlling the temporal variability and spatial distribution of dissolved cadmium in the coastal Salish Sea. <i>Continental Shelf Research</i> , 2022, 243, 104761.	0.9	1