

Jeffrey C Cornwell

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

90
papers

5,907
citations

35
h-index

76
g-index

94
ext. papers

6,514
ext. citations

3.7
avg, IF

5.38
L-index

#	Paper	IF	Citations
90	Eutrophication of Chesapeake Bay: historical trends and ecological interactions. <i>Marine Ecology - Progress Series</i> , 2005 , 303, 1-29	2.6	1009
89	Membrane Inlet Mass Spectrometer for Rapid High-Precision Determination of N ₂ , O ₂ , and Ar in Environmental Water Samples. <i>Analytical Chemistry</i> , 1994 , 66, 4166-4170	7.8	561
88	The chemistry of the hydrogen sulfide and iron sulfide systems in natural waters. <i>Earth-Science Reviews</i> , 1987 , 24, 1-42	10.2	490
87	Denitrification in coastal ecosystems: methods, environmental controls, and ecosystem level controls, a review. <i>Aquatic Ecology</i> , 1999 , 33, 41-54	1.9	215
86	The characterization of iron sulfide minerals in anoxic marine sediments. <i>Marine Chemistry</i> , 1987 , 22, 193-206	3.7	208
85	Denitrification and nutrient assimilation on a restored oyster reef. <i>Marine Ecology - Progress Series</i> , 2013 , 480, 1-19	2.6	178
84	Influence of simulated bivalve biodeposition and microphytobenthos on sediment nitrogen dynamics: A laboratory study. <i>Limnology and Oceanography</i> , 2002 , 47, 1367-1379	4.8	163
83	Denitrification in estuarine sediments determined by membrane inlet mass spectrometry. <i>Limnology and Oceanography</i> , 1998 , 43, 334-339	4.8	151
82	Analysis and distribution of iron sulfide minerals in recent anoxic marine sediments. <i>Marine Chemistry</i> , 1987 , 22, 55-69	3.7	146
81	Increased sediment accretion rates following invasion by <i>Phragmites australis</i> : The role of litter. <i>Estuaries and Coasts</i> , 2003 , 26, 475-483		137
80	Changes in phosphorus biogeochemistry along an estuarine salinity gradient: The iron conveyer belt. <i>Limnology and Oceanography</i> , 2008 , 53, 172-184	4.8	122
79	Effects of different submersed macrophytes on sediment biogeochemistry. <i>Aquatic Botany</i> , 1997 , 56, 233-244	1.8	120
78	Recent declines in PAH, PCB, and toxaphene levels in the northern Great Lakes as determined from high resolution sediment cores. <i>Environmental Science & Technology</i> , 2001 , 35, 3809-15	10.3	111
77	Use of oysters to mitigate eutrophication in coastal waters. <i>Estuarine, Coastal and Shelf Science</i> , 2014 , 151, 156-168	2.9	109
76	Ecological Stoichiometry, Biogeochemical Cycling, Invasive Species, and Aquatic Food Webs: San Francisco Estuary and Comparative Systems. <i>Reviews in Fisheries Science</i> , 2011 , 19, 358-417		109
75	A sediment chronology of the eutrophication of Chesapeake Bay. <i>Estuaries and Coasts</i> , 1996 , 19, 488		104
74	Nutrient Budgets and Management Actions in the Patuxent River Estuary, Maryland. <i>Estuaries and Coasts</i> , 2008 , 31, 623-651	2.8	98

73	Nitrogen, Phosphorus, and Organic Carbon Cycling in an Arctic Lake. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 1985 , 42, 797-808	2.4	90
72	Transformation of particle-bound phosphorus at the land-sea interface. <i>Estuarine, Coastal and Shelf Science</i> , 1995 , 40, 161-176	2.9	89
71	Redox reactions and weak buffering capacity lead to acidification in the Chesapeake Bay. <i>Nature Communications</i> , 2017 , 8, 369	17.4	80
70	An examination of the factors influencing the flux of mercury, methylmercury and other constituents from estuarine sediment. <i>Marine Chemistry</i> , 2006 , 102, 96-110	3.7	76
69	Effects of cyanobacterial-driven pH increases on sediment nutrient fluxes and coupled nitrification-denitrification in a shallow fresh water estuary. <i>Biogeosciences</i> , 2012 , 9, 2697-2710	4.6	68
68	Sediment flux modeling: Simulating nitrogen, phosphorus, and silica cycles. <i>Estuarine, Coastal and Shelf Science</i> , 2013 , 131, 245-263	2.9	66
67	Respiratory succession and community succession of bacterioplankton in seasonally anoxic estuarine waters. <i>Applied and Environmental Microbiology</i> , 2007 , 73, 6802-10	4.8	65
66	Mediation of benthic-pelagic coupling by microphytobenthos: an energy- and material-based model for initiation of blooms of <i>Aureococcus anophagefferens</i> . <i>Harmful Algae</i> , 2004 , 3, 403-437	5.3	65
65	Multiscale Experiments in Coastal Ecology: Improving Realism and Advancing Theory. <i>BioScience</i> , 2003 , 53, 1181	5.7	62
64	Quantification of denitrification in permeable sediments: Insights from a two-dimensional simulation analysis and experimental data. <i>Limnology and Oceanography: Methods</i> , 2006 , 4, 294-307	2.6	61
63	Identification of important primary producers in a Chesapeake Bay tidal creek system using stable isotopes of carbon and sulfur. <i>Estuaries and Coasts</i> , 1997 , 20, 77		58
62	Implicit Scaling in the Design of Experimental Aquatic Ecosystems. <i>Oikos</i> , 1999 , 85, 3	4	58
61	Effect of oysters <i>Crassostrea virginica</i> and bottom shear velocity on benthic-pelagic coupling and estuarine water quality. <i>Marine Ecology - Progress Series</i> , 2004 , 271, 61-75	2.6	57
60	Transitions in nirS-type denitrifier diversity, community composition, and biogeochemical activity along the Chesapeake Bay estuary. <i>Frontiers in Microbiology</i> , 2013 , 4, 237	5.7	55
59	Diagenetic trace-metal profiles in Arctic lake sediments. <i>Environmental Science & Technology</i> , 1986 , 20, 299-302	10.3	45
58	Nutrient Fluxes from Sediments in the San Francisco Bay Delta. <i>Estuaries and Coasts</i> , 2014 , 37, 1120-1133	3.8	42
57	Determination of denitrification in the Chesapeake Bay from measurements of N ₂ accumulation in bottom water. <i>Estuaries and Coasts</i> , 2006 , 29, 222-231	2.8	42
56	Metal accumulation in Baltimore Harbor: current and past inputs. <i>Applied Geochemistry</i> , 2004 , 19, 1801-1835	3.5	35

55	Phosphorus Burial in Sediments Along the Salinity Gradient of the Patuxent River, a Subestuary of the Chesapeake Bay (USA). <i>Estuaries and Coasts</i> , 2010 , 33, 92-106	2.8	33
54	Sources and transformations of anthropogenic nitrogen along an urban river-estuarine continuum. <i>Biogeosciences</i> , 2016 , 13, 6211-6228	4.6	32
53	Influence of plant communities on denitrification in a tidal freshwater marsh of the Potomac River, United States. <i>Journal of Environmental Quality</i> , 2009 , 38, 618-26	3.4	31
52	Carbon Cycling and the Coupling Between Proton and Electron Transfer Reactions in Aquatic Sediments in Lake Champlain. <i>Aquatic Geochemistry</i> , 2010 , 16, 421-446	1.7	31
51	Stimulation of the brown tide organism, <i>Aureococcus anophagefferens</i> , by selective nutrient additions to in situ mesocosms. <i>Harmful Algae</i> , 2004 , 3, 377-388	5.3	30
50	Controls on Carbonate System Dynamics in a Coastal Plain Estuary: A Modeling Study. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019 , 124, 61-78	3.7	30
49	Influence of cyanobacteria blooms on sediment biogeochemistry and nutrient fluxes. <i>Limnology and Oceanography</i> , 2014 , 59, 959-971	4.8	29
48	Modeling the impact of floating oyster (<i>Crassostrea virginica</i>) aquaculture on sediment-water nutrient and oxygen fluxes. <i>Aquaculture Environment Interactions</i> , 2015 , 7, 205-222	2.9	28
47	Nitrogen, phosphorus, and sulfur dynamics in a low salinity marsh system dominated by <i>Spartina alterniflora</i> . <i>Wetlands</i> , 2001 , 21, 629-638	1.7	28
46	Biogeochemistry of manganese- and iron-rich sediments in Toolik Lake, Alaska. <i>Hydrobiologia</i> , 1992 , 240, 45-59	2.4	28
45	Metatranscriptomic analyses of plankton communities inhabiting surface and subpycnocline waters of the Chesapeake Bay during oxic-anoxic-oxic transitions. <i>Applied and Environmental Microbiology</i> , 2014 , 80, 328-38	4.8	25
44	Microtopography in tidal marshes: Ecosystem engineering by vegetation?. <i>Estuaries and Coasts</i> , 2007 , 30, 1007-1015	2.8	24
43	Interannual variability of <i>Aureococcus anophagefferens</i> in Quantuck Bay, Long Island: natural test of the DON hypothesis. <i>Harmful Algae</i> , 2004 , 3, 389-402	5.3	23
42	Sediment Accumulation Rates in an Alaskan Arctic Lake Using a Modified 210Pb Technique. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 1985 , 42, 809-814	2.4	23
41	Chesapeake Bay acidification buffered by spatially decoupled carbonate mineral cycling. <i>Nature Geoscience</i> , 2020 , 13, 441-447	18.3	22
40	Quantifying Sediment Nitrogen Releases Associated with Estuarine Dredging. <i>Aquatic Geochemistry</i> , 2011 , 17, 499-517	1.7	20
39	Effect of Sediment Manipulation on the Biogeochemistry of Experimental Sediment Systems. <i>Journal of Coastal Research</i> , 2006 , 226, 1539-1551	0.6	20
38	Sediment Denitrification and Nutrient Fluxes in the San José Lagoon, a Tropical Lagoon in the Highly Urbanized San Juan Bay Estuary, Puerto Rico. <i>Estuaries and Coasts</i> , 2015 , 38, 2259-2278	2.8	19

37	Osmium Isotopes Demonstrate Distal Transport of Contaminated Sediments in Chesapeake Bay. <i>Environmental Science & Technology</i> , 2000 , 34, 2528-2534	10.3	19
36	Historical contamination of the Anacostia River, Washington, D.C. <i>Environmental Monitoring and Assessment</i> , 2011 , 183, 307-28	3.1	17
35	Environmental Controls on Iron Sulfide Mineral Formation in a Coastal Plain Estuary. <i>ACS Symposium Series</i> , 1995 , 224-242	0.4	17
34	Variability of stable sulfur isotopic ratios in <i>Spartina alterniflora</i> . <i>Marine Ecology - Progress Series</i> , 1998 , 166, 73-81	2.6	17
33	Cation export from Alaskan arctic watersheds. <i>Hydrobiologia</i> , 1992 , 240, 15-22	2.4	16
32	A silicon budget for an Alaskan arctic lake. <i>Hydrobiologia</i> , 1992 , 240, 37-44	2.4	15
31	Microtopographic variability in plant distribution and biogeochemistry in a brackish-marsh system. <i>Marine Ecology - Progress Series</i> , 2006 , 320, 121-129	2.6	14
30	The Effects of Oxygen Transition on Community Respiration and Potential Chemoautotrophic Production in a Seasonally Stratified Anoxic Estuary. <i>Estuaries and Coasts</i> , 2015 , 38, 104-117	2.8	13
29	Phosphorus Sequestration in Sediments Along the Salinity Gradients of Chesapeake Bay Subestuaries. <i>Estuaries and Coasts</i> , 2017 , 40, 1607-1625	2.8	12
28	Key respiratory genes elucidate bacterial community respiration in a seasonally anoxic estuary. <i>Environmental Microbiology</i> , 2015 , 17, 2306-18	5.2	12
27	Influences of a River Dam on Delivery and Fate of Sediments and Particulate Nutrients to the Adjacent Estuary: Case Study of Conowingo Dam and Chesapeake Bay. <i>Estuaries and Coasts</i> , 2019 , 42, 2072-2095	2.8	12
26	Interactive Effects of Physical and Biogeochemical Feedback Processes in a Large Submersed Plant Bed. <i>Estuaries and Coasts</i> , 2017 , 40, 1626-1641	2.8	12
25	Short-term effects of nereid polychaete size and density on sediment inorganic nitrogen cycling under varying oxygen conditions. <i>Marine Ecology - Progress Series</i> , 2015 , 524, 155-169	2.6	12
24	Sediment-Water Nitrogen Exchange along the Potomac River Estuarine Salinity Gradient. <i>Journal of Coastal Research</i> , 2016 , 320, 776-787	0.6	12
23	Tidal Marsh Restoration at Poplar Island I: Transformation of Estuarine Sediments into Marsh Soils. <i>Wetlands</i> , 2020 , 40, 1673-1686	1.7	8
22	Tidal Marsh Restoration at Poplar Island: II. Elevation Trends, Vegetation Development, and Carbon Dynamics. <i>Wetlands</i> , 2020 , 40, 1687-1701	1.7	8
21	The Role of Oligohaline Marshes in Estuarine Nutrient Cycling 2002 , 425-441		8
20	Elevated microbial CO ₂ production and fixation in the oxic/anoxic interface of estuarine water columns during seasonal anoxia. <i>Estuarine, Coastal and Shelf Science</i> , 2015 , 164, 65-76	2.9	7

19	Source partitioning of oxygen-consuming organic matter in the hypoxic zone of the Chesapeake Bay. <i>Limnology and Oceanography</i> , 2020 , 65, 1801-1817	4.8	7
18	Biogeochemical origin of B4S isotopic signatures in a prairie marsh. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 1995 , 52, 1816-1820	2.4	7
17	Comparison of methods for determining biogeochemical fluxes from a restored oyster reef. <i>PLoS ONE</i> , 2018 , 13, e0209799	3.7	7
16	Photosynthesis and nitrogen fixation during cyanobacteria blooms in an oligohaline and tidal freshwater estuary. <i>Aquatic Microbial Ecology</i> , 2014 , 72, 127-142	1.1	6
15	Nitrogen and oxygen availabilities control water column nitrous oxide production during seasonal anoxia in the Chesapeake Bay. <i>Biogeosciences</i> , 2018 , 15, 6127-6138	4.6	6
14	A Preliminary Sediment Budget for the Corsica River (MD): Improved Estimates of Nitrogen Burial and Implications for Restoration. <i>Estuaries and Coasts</i> , 2012 , 35, 546-558	2.8	5
13	The Benthic Exchange of O ₂ , N ₂ and Dissolved Nutrients Using Small Core Incubations. <i>Journal of Visualized Experiments</i> , 2016 ,	1.6	5
12	The Development of Denitrification and of the Denitrifying Community in a Newly-Created Freshwater Wetland. <i>Wetlands</i> , 2020 , 40, 1005-1016	1.7	2
11	Effects of resuspension of eastern oyster <i>Crassostrea virginica</i> biodeposits on phytoplankton community structure. <i>Marine Ecology - Progress Series</i> , 2020 , 640, 79-105	2.6	2
10	Evaluating estuarine sediment provenance from geochemical patterns in upper Chesapeake Bay. <i>Chemical Geology</i> , 2020 , 533, 119404	4.2	2
9	A review of how we assess denitrification in oyster habitats and proposed guidelines for future studies. <i>Limnology and Oceanography: Methods</i> , 2021 , 19, 714	2.6	2
8	Measurement of Sulfate Reduction in Wetland Soils. <i>Soil Science Society of America Book Series</i> , 2015 , 765-773		1
7	Mercury and Zinc in the Sediments of Seneca Lake, Seneca River, and Keuka Outlet, New York. <i>Journal of Great Lakes Research</i> , 1980 , 6, 68-75	3	1
6	Biogeochemistry of manganese- and iron-rich sediments in Toolik Lake, Alaska 1992 , 45-59		1
5	Temporal enhancement of denitrification in bioirrigated estuarine sediments. <i>Aquatic Sciences</i> , 2020 , 82, 1	2.5	1
4	Controls on Nutrient Cycling in Estuarine Mangrove Lake Sediments. <i>Journal of Marine Science and Engineering</i> , 2021 , 9, 626	2.4	0
3	Contributions of Organic and Mineral Matter to Vertical Accretion in Tidal Wetlands across a Chesapeake Bay Subestuary. <i>Journal of Marine Science and Engineering</i> , 2021 , 9, 751	2.4	0
2	The Fate of Nitrogen in Dredged Material Used for Tidal Marsh Restoration. <i>Journal of Marine Science and Engineering</i> , 2021 , 9, 849	2.4	0

- 1 A silicon budget for an Alaskan arctic lake **1992**, 37-44