Hans W Paerl

List of Publications by Year in Descending Order

222 papers	27,034 citations	73 h-index	162 g-index
226 ext. papers	32,028 ext. citations	6.2 avg, IF	7.64 L-index

#	Paper	IF	Citations
222	Storm and floods increase the duration and extent of phosphorus limitation on algal blooms in a tributary of the Three Gorges Reservoir, China. *Journal of Hydrology*, **2022**, 607, 127562	6	0
221	Cyanophycin accumulated under nitrogen-fluctuating and high-nitrogen conditions facilitates the persistent dominance and blooms of Raphidiopsis raciborskii in tropical waters.. *Water Research*, **2022**, 214, 118215	12.5	2
220	Environmental controls of harmful cyanobacterial blooms in Chinese inland waters. *Harmful Algae*, **2021**, 110, 102127	5.3	3
219	Ecological stoichiometry of functional traits in a colonial harmful cyanobacterium. *Limnology and Oceanography*, **2021**, 66, 2051-2062	4.8	1
218	Corrigendum to: The global Microcystis interactome. *Limnology and Oceanography*, **2021**, 66, 2496-2497	4.8	0
217	Simulating algal dynamics within a Bayesian framework to evaluate controls on estuary productivity. *Ecological Modelling*, **2021**, 447, 109497	3	1
216	Effects of Ferrous Iron and Hydrogen Sulfide on Nitrate Reduction in the Sediments of an Estuary Experiencing Hypoxia. *Estuaries and Coasts*, **2021**, 44, 1-12	2.8	2
215	Shifting states, shifting services: Linking regime shifts to changes in ecosystem services of shallow lakes. *Freshwater Biology*, **2021**, 66, 1-12	3.1	39
214	Ecosystem-based management for military training, biodiversity, carbon storage and climate resiliency on a complex coastal land/water-scape. *Journal of Environmental Management*, **2021**, 280, 111755	7.9	0
213	Toxic Cyanobacteria: A Growing Threat to Water and Air Quality. *Environmental Science & Technology*, **2021**, 55, 44-64	10.3	38
212	Contributions of external nutrient loading and internal cycling to cyanobacterial bloom dynamics in Lake Taihu, China: Implications for nutrient management. *Limnology and Oceanography*, **2021**, 66, 1492-1509	4.8	12
211	Roles of Nutrient Limitation on Western Lake Erie CyanoHAB Toxin Production. *Toxins*, **2021**, 13,	4.9	6
210	Elevated organic carbon pulses persist in estuarine environment after major storm events. *Limnology and Oceanography Letters*, **2021**, 6, 43-50	7.9	5
209	Use of Geospatial, Hydrologic, and Geochemical Modeling to Determine the Influence of Wetland-Derived Organic Matter in Coastal Waters in Response to Extreme Weather Events. *Frontiers in Marine Science*, **2020**, 7,	4.5	8
208	Ecosystem Capacity for Microbial Biodegradation of Munitions Compounds and Phenanthrene in Three Coastal Waterways in North Carolina, United States. *ACS Omega*, **2020**, 5, 7326-7341	3.9	1
207	Mitigating the global expansion of harmful cyanobacterial blooms: Moving targets in a human- and climatically-altered world. *Harmful Algae*, **2020**, 96, 101845	5.3	30
206	Nutrient addition bioassay and phytoplankton community structure monitored during autumn in Xiangxi Bay of Three Gorges Reservoir, China. *Chemosphere*, **2020**, 247, 125960	8.4	16

205	Nitrate repletion during spring bloom intensifies phytoplankton iron demand in Yangtze River tributary, China. *Environmental Pollution*, **2020**, 264, 114626	9.3	11
204	Impacts of Nitrogen Deposition on China Lake Ecosystems: Taking Lake Dianchi as an Example **2020**, 263-293		
203	Seasonal to Inter-Annual Variability of Primary Production in Chesapeake Bay: Prospects to Reverse Eutrophication and Change Trophic Classification. *Scientific Reports*, **2020**, 10, 2019	4.9	2
202	Picophytoplankton dynamics in a large temperate estuary and impacts of extreme storm events. *Scientific Reports*, **2020**, 10, 22026	4.9	9
201	Mitigating eutrophication and toxic cyanobacterial blooms in large lakes: The evolution of a dual nutrient (N and P) reduction paradigm. *Hydrobiologia*, **2020**, 847, 4359-4375	2.4	48
200	The global interactome. *Limnology and Oceanography*, **2020**, 65, S194-S207	4.8	26
199	Exploring How Cyanobacterial Traits Affect Nutrient Loading Thresholds in Shallow Lakes: A Modelling Approach. *Water (Switzerland)*, **2020**, 12, 2467	3	4
198	Evaluating the phytoplankton, nitrate, and ammonium interactions during summer bloom in tributary of a subtropical reservoir. *Journal of Environmental Management*, **2020**, 271, 110971	7.9	9
197	Tackling Harmful Cyanobacterial Blooms with Chinese Colleagues: We're All in the Same Boat. *Journal of Phycology*, **2020**, 56, 1398-1403	3	2
196	Phytoplankton composition in a eutrophic estuary: Comparison of multiple taxonomic approaches and influence of environmental factors. *Environmental Microbiology*, **2020**, 22, 4718-4731	5.2	2
195	Recent increases of rainfall and flooding from tropical cyclones (TCs) in North Carolina (USA): implications for organic matter and nutrient cycling in coastal watersheds. *Biogeochemistry*, **2020**, 150, 197-216	3.8	7
194	Mitigating a global expansion of toxic cyanobacterial blooms: confounding effects and challenges posed by climate change. *Marine and Freshwater Research*, **2020**, 71, 579	2.2	40
193	Perspective: Advancing the research agenda for improving understanding of cyanobacteria in a future of global change. *Harmful Algae*, **2020**, 91, 101601	5.3	59
192	Future HAB science: Directions and challenges in a changing climate. *Harmful Algae*, **2020**, 91, 101632	5.3	100
191	Cyanobacteria in eutrophic waters benefit from rising atmospheric CO concentrations. *Science of the Total Environment*, **2019**, 691, 1144-1154	10.2	16
190	Nitrogen transformations differentially affect nutrient-limited primary production in lakes of varying trophic state. *Limnology and Oceanography Letters*, **2019**, 4, 96-104	7.9	35
189	Climate exerts a greater modulating effect on the phytoplankton community after 2007 in eutrophic Lake Taihu, China: Evidence from 25 years of recordings. *Ecological Indicators*, **2019**, 105, 82-91	5.8	17
188	Long-term trends, current status, and transitions of water quality in Chesapeake Bay. *Scientific Reports*, **2019**, 9, 6709	4.9	30

187	Using alkaline phosphatase activity as a supplemental index to optimize predicting algal blooms in phosphorus-deficient lakes: A case study of Lake Taihu, China. *Ecological Indicators*, **2019**, 103, 698-712	5.8	11
186	Extreme weather events modulate processing and export of dissolved organic carbon in the Neuse River Estuary, NC. *Estuarine, Coastal and Shelf Science*, **2019**, 219, 189-200	2.9	10
185	Nutrients, eutrophication and harmful algal blooms along the freshwater to marine continuum. *Wiley Interdisciplinary Reviews: Water*, **2019**, 6, e1373	5.7	170
184	Recent increase in catastrophic tropical cyclone flooding in coastal North Carolina, USA: Long-term observations suggest a regime shift. *Scientific Reports*, **2019**, 9, 10620	4.9	47
183	Lingering Carbon Cycle Effects of Hurricane Matthew in North Carolina's Coastal Waters. *Geophysical Research Letters*, **2019**, 46, 2654-2661	4.9	21
182	Mississippi River diversions and phytoplankton dynamics in deltaic Gulf of Mexico estuaries: A review. *Estuarine, Coastal and Shelf Science*, **2019**, 221, 39-52	2.9	24
181	Why Lake Taihu continues to be plagued with cyanobacterial blooms through 10 years (2007–2017) efforts. *Science Bulletin*, **2019**, 64, 354-356	10.6	110
180	Water quality trends in the Three Gorges Reservoir region before and after impoundment (1992–2016). *Ecohydrology and Hydrobiology*, **2019**, 19, 317-327	2.8	30
179	Spatial and temporal distribution characteristics of different forms of inorganic nitrogen in three types of rivers around Lake Taihu, China. *Environmental Science and Pollution Research*, **2019**, 26, 6898-6910	5.1	9
178	Nitrogen fixation does not axiomatically lead to phosphorus limitation in aquatic ecosystems. *Oikos* , **2019**, 128, 563-570	4	4
177	Watershed-Scale Drivers of Air-Water CO2 Exchanges in Two Lagoonal North Carolina (USA) Estuaries. *Journal of Geophysical Research G: Biogeosciences*, **2018**, 123, 271-287	3.7	12
176	Mitigating the Expansion of Harmful Algal Blooms Across the Freshwater-to-Marine Continuum. *Environmental Science & Technology*, **2018**, 52, 5519-5529	10.3	130
175	CO2 limited conditions favor cyanobacteria in a hypereutrophic lake: An empirical and theoretical stable isotope study. *Limnology and Oceanography*, **2018**, 63, 1643-1659	4.8	20
174	Eukaryotic phytoplankton community spatiotemporal dynamics as identified through gene expression within a eutrophic estuary. *Environmental Microbiology*, **2018**, 20, 1095-1111	5.2	9
173	Two decades of tropical cyclone impacts on North Carolina's estuarine carbon, nutrient and phytoplankton dynamics: implications for biogeochemical cycling and water quality in a stormier world. *Biogeochemistry*, **2018**, 141, 307-332	3.8	60
172	Climatically-modulated decline in wind speed may strongly affect eutrophication in shallow lakes. *Science of the Total Environment*, **2018**, 645, 1361-1370	10.2	65
171	Mitigating Toxic Planktonic Cyanobacterial Blooms in Aquatic Ecosystems Facing Increasing Anthropogenic and Climatic Pressures. *Toxins*, **2018**, 10,	4.9	84
170	Temperature Effects Explain Continental Scale Distribution of Cyanobacterial Toxins. *Toxins*, **2018**, 10,	4.9	109

169	Why does N-limitation persist in the world's marine waters?. *Marine Chemistry*, **2018**, 206, 1-6	3.7	18
168	Seasonal Gene Expression and the Ecophysiological Implications of Toxic Microcystis aeruginosa Blooms in Lake Taihu. *Environmental Science & Technology*, **2018**, 52, 11049-11059	10.3	40
167	Extreme weather event may induce Microcystis blooms in the Qiantang River, Southeast China. *Environmental Science and Pollution Research*, **2018**, 25, 22273-22284	5.1	15
166	The impact of flooding on aquatic ecosystem services. *Biogeochemistry*, **2018**, 141, 439-461	3.8	79
165	Cyanobacterial blooms. *Nature Reviews Microbiology*, **2018**, 16, 471-483	22.2	838
164	Formation of Low-Molecular-Weight Dissolved Organic Nitrogen in Predenitrification Biological Nutrient Removal Systems and Its Impact on Eutrophication in Coastal Waters. *Environmental Science & Technology*, **2017**, 51, 3776-3783	10.3	37
163	Allelopathic interactions of linoleic acid and nitric oxide increase the competitive ability of Microcystis aeruginosa. *ISME Journal*, **2017**, 11, 1865-1876	11.9	88
162	Evidence for the Importance of Atmospheric Nitrogen Deposition to Eutrophic Lake Dianchi, China. *Environmental Science & Technology*, **2017**, 51, 6699-6708	10.3	47
161	Molecular insights into a dinoflagellate bloom. *ISME Journal*, **2017**, 11, 439-452	11.9	48
160	Stimulation of Phytoplankton Production by Anthropogenic Dissolved Organic Nitrogen in a Coastal Plain Estuary. *Environmental Science & Technology*, **2017**, 51, 13104-13112	10.3	12
159	Controlling harmful cyanobacterial blooms in a climatically more extreme world: management options and research needs. *Journal of Plankton Research*, **2017**, 39, 763-771	2.2	34
158	Carbon budget of a shallow, lagoonal estuary: Transformations and source-sink dynamics along the river-estuary-ocean continuum. *Limnology and Oceanography*, **2017**, 62, S29-S45	4.8	34
157	Climate Change Impacts on Harmful Algal Blooms in U.S. Freshwaters: A Screening-Level Assessment. *Environmental Science & Technology*, **2017**, 51, 8933-8943	10.3	126
156	Long-term nutrient trends and harmful cyanobacterial bloom potential in hypertrophic Lake Taihu, China. *Hydrobiologia*, **2017**, 787, 229-242	2.4	75
155	The cyanobacterial nitrogen fixation paradox in natural waters. *F1000Research*, **2017**, 6, 244	3.6	17
154	Mitigating harmful cyanobacterial blooms: strategies for control of nitrogen and phosphorus loads. *Aquatic Ecology*, **2016**, 50, 351-366	1.9	87
153	Predicting Sources of Dissolved Organic Nitrogen to an Estuary from an Agro-Urban Coastal Watershed. *Environmental Science & Technology*, **2016**, 50, 8473-84	10.3	63
152	Duelling 'CyanoHABs': unravelling the environmental drivers controlling dominance and succession among diazotrophic and non-N2 -fixing harmful cyanobacteria. *Environmental Microbiology*, **2016**, 18, 316-24	5.2	72

151	Extreme Weather Events and Climate Variability Provide a Lens to How Shallow Lakes May Respond to Climate Change. *Water (Switzerland)*, **2016**, 8, 229	3	55
150	Effects of Nitrogen Availability and Form on Phytoplankton Growth in a Eutrophied Estuary (Neuse River Estuary, NC, USA). *PLoS ONE*, **2016**, 11, e0160663	3.7	17
149	The persistence of cyanobacterial (Microcystis spp.) blooms throughout winter in Lake Taihu, China. *Limnology and Oceanography*, **2016**, 61, 711-722	4.8	75
148	Variable climatic conditions dominate recent phytoplankton dynamics in Chesapeake Bay. *Scientific Reports*, **2016**, 6, 23773	4.9	35
147	A review of the global ecology, genomics, and biogeography of the toxic cyanobacterium, Microcystis spp. *Harmful Algae*, **2016**, 54, 4-20	5.3	512
146	Mitigating cyanobacterial harmful algal blooms in aquatic ecosystems impacted by climate change and anthropogenic nutrients. *Harmful Algae*, **2016**, 54, 213-222	5.3	318
145	How rising CO and global warming may stimulate harmful cyanobacterial blooms. *Harmful Algae*, **2016**, 54, 145-159	5.3	277
144	Global solutions to regional problems: Collecting global expertise to address the problem of harmful cyanobacterial blooms. A Lake Erie case study. *Harmful Algae*, **2016**, 54, 223-238	5.3	160
143	It Takes Two to Tango: When and Where Dual Nutrient (N & P) Reductions Are Needed to Protect Lakes and Downstream Ecosystems. *Environmental Science & Technology*, **2016**, 50, 10805-10813	10.3	309
142	Health Effects of Toxic Cyanobacteria in U.S. Drinking and Recreational Waters: Our Current Understanding and Proposed Direction. *Current Environmental Health Reports*, **2015**, 2, 75-84	6.5	57
141	Precipitation as a driver of phytoplankton ecology in coastal waters: A climatic perspective. *Estuarine, Coastal and Shelf Science*, **2015**, 162, 119-129	2.9	26
140	Harmful Algal Blooms **2015**, 873-920		30
139	Vertical spatio-temporal patterns of phytoplankton due to migration behaviors in two shallow, microtidal estuaries: Influence on phytoplankton function and structure. *Estuarine, Coastal and Shelf Science*, **2015**, 162, 7-21	2.9	14
138	Climate Change at a Crossroad for Control of Harmful Algal Blooms. *Environmental Science & Technology*, **2015**, 49, 12605-6	10.3	52
137	SCOR Working Group 137: Global Patterns of Phytoplankton Dynamics in Coastal Ecosystems An introduction to the special issue of Estuarine, Coastal and Shelf Science. *Estuarine, Coastal and Shelf Science*, **2015**, 162, 1-3	2.9	4
136	Nutrient limitation dynamics examined on a multi-annual scale in Lake Taihu, China: implications for controlling eutrophication and harmful algal blooms. *Journal of Freshwater Ecology*, **2015**, 30, 5-24	1.4	91
135	Green algal over cyanobacterial dominance promoted with nitrogen and phosphorus additions in a mesocosm study at Lake Taihu, China. *Environmental Science and Pollution Research*, **2015**, 22, 5041-9	5.1	24
134	Evolving Paradigms and Challenges in Estuarine and Coastal Eutrophication Dynamics in a Culturally and Climatically Stressed World. *Estuaries and Coasts*, **2014**, 37, 243-258	2.8	162

133	The role of tropical cyclones in stimulating cyanobacterial (Microcystis spp.) blooms in hypertrophic Lake Taihu, China. *Harmful Algae*, **2014**, 39, 310-321	5.3	90
132	Algal blooms: noteworthy nitrogen. *Science*, **2014**, 346, 175	33.3	94
131	Hydrologic Variability and Its Control of Phytoplankton Community Structure and Function in Two Shallow, Coastal, Lagoonal Ecosystems: The Neuse and New River Estuaries, North Carolina, USA. *Estuaries and Coasts*, **2014**, 37, 31-45	2.8	51
130	Extensive CO2 emissions from shallow coastal waters during passage of Hurricane Irene (August 2011) over the Mid-Atlantic Coast of the U.S.A. *Limnology and Oceanography*, **2014**, 59, 1651-1665	4.8	25
129	Controlling cyanobacterial blooms in hypertrophic Lake Taihu, China: will nitrogen reductions cause replacement of non-N2 fixing by N2 fixing taxa?. *PLoS ONE*, **2014**, 9, e113123	3.7	82
128	Mitigating harmful cyanobacterial blooms in a human- and climatically-impacted world. *Life*, **2014**, 4, 988-1012	3	142
127	Effects of nutrients, temperature and their interactions on spring phytoplankton community succession in Lake Taihu, China. *PLoS ONE*, **2014**, 9, e113960	3.7	58
126	Environmental science. Blooms bite the hand that feeds them. *Science*, **2013**, 342, 433-4	33.3	138
125	Harmful cyanobacterial blooms: causes, consequences, and controls. *Microbial Ecology*, **2013**, 65, 995-1010	4.4	862
124	Growth response of Microcystis spp. to iron enrichment in different regions of Lake Taihu, China. *Hydrobiologia*, **2013**, 700, 187-202	2.4	61
123	Effects of climatic variability on phytoplankton community structure and bloom development in the eutrophic, microtidal, New River Estuary, North Carolina, USA. *Estuarine, Coastal and Shelf Science*, **2013**, 117, 70-82	2.9	55
122	Evaluation of progress in achieving TMDL mandated nitrogen reductions in the Neuse River basin, North Carolina. *Environmental Management*, **2012**, 49, 253-66	3.1	27
121	Estuarine Phytoplankton **2012**, 85-110		2
120	Climate change: links to global expansion of harmful cyanobacteria. *Water Research*, **2012**, 46, 1349-63	12.5	994
119	Air-water CO2 fluxes in the microtidal Neuse River Estuary, North Carolina. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a		36
118	Non-monotonic Responses of Phytoplankton Biomass Accumulation to Hydrologic Variability: A Comparison of Two Coastal Plain North Carolina Estuaries. *Estuaries and Coasts*, **2012**, 35, 1376-1392	2.8	68
117	Marine Plankton **2012**, 127-153		13
116	Composition of inorganic and organic nutrient sources influences phytoplankton community structure in the New River Estuary, North Carolina. *Aquatic Ecology*, **2012**, 46, 269-282	1.9	37

115	Facultative diazotrophy increases Cylindrospermopsis raciborskii competitiveness under fluctuating nitrogen availability. *FEMS Microbiology Ecology*, **2012**, 79, 800-11	4.3	63
114	The relationships between nutrients, cyanobacterial toxins and the microbial community in Taihu (Lake Tai), China. *Harmful Algae*, **2011**, 10, 207-215	5.3	112
113	Determining the potential for the proliferation of the harmful cyanobacterium Cylindrospermopsis raciborskii in Currituck Sound, North Carolina. *Harmful Algae*, **2011**, 11, 1-9	5.3	18
112	Controlling harmful cyanobacterial blooms in a hyper-eutrophic lake (Lake Taihu, China): the need for a dual nutrient (N & P) management strategy. *Water Research*, **2011**, 45, 1973-83	12.5	693
111	Severe droughts reduce estuarine primary productivity with cascading effects on higher trophic levels. *Limnology and Oceanography*, **2011**, 56, 627-638	4.8	49
110	Allied attack: climate change and eutrophication. *Inland Waters*, **2011**, 1, 101-105	2.4	405
109	Controlling harmful cyanobacterial blooms in a world experiencing anthropogenic and climatic-induced change. *Science of the Total Environment*, **2011**, 409, 1739-45	10.2	673
108	Longitudinal and depth variation of bacterioplankton productivity and related factors in a temperate estuary. *Estuarine, Coastal and Shelf Science*, **2011**, 95, 207-215	2.9	5
107	Nutrients in precipitation and the phytoplankton responses to enrichment in surface waters of the Albemarle Peninsula, NC, USA after the establishment of a large-scale chicken egg farm. *Hydrobiologia*, **2011**, 671, 181-191	2.4	1
106	Phylogenetic inference of colony isolates comprising seasonal Microcystis blooms in Lake Taihu, China. *Microbial Ecology*, **2011**, 62, 907-18	4.4	47
105	Rationale for control of anthropogenic nitrogen and phosphorus to reduce eutrophication of inland waters. *Environmental Science & Technology*, **2011**, 45, 10300-5	10.3	350
104	Primary Producers **2011**, 23-42		7
103	Nitrogen and phosphorus inputs control phytoplankton growth in eutrophic Lake Taihu, China. *Limnology and Oceanography*, **2010**, 55, 420-432	4.8	658
102	Throwing fuel on the fire: synergistic effects of excessive nitrogen inputs and global warming on harmful algal blooms. *Environmental Science & Technology*, **2010**, 44, 7756-8	10.3	143
101	Environmental Dynamics, Community Structure and Function in a Hypersaline Microbial Mat. *Cellular Origin and Life in Extreme Habitats*, **2010**, 421-442		5
100	A drinking water crisis in Lake Taihu, China: linkage to climatic variability and lake management. *Environmental Management*, **2010**, 45, 105-12	3.1	622
99	Phytoplankton Community Indicators of Short- and Long-term Ecological Change in the Anthropogenically and Climatically Impacted Neuse River Estuary, North Carolina, USA. *Estuaries and Coasts*, **2010**, 33, 485-497	2.8	110
98	Picophytoplankton: A major contributor to planktonic biomass and primary production in a eutrophic, river-dominated estuary. *Estuarine, Coastal and Shelf Science*, **2010**, 90, 45-54	2.9	56

97	Temperature, organic matter, and the control of bacterioplankton in the Neuse River and Pamlico Sound estuarine system. *Aquatic Microbial Ecology*, **2010**, 60, 139-149	1.1	15
96	Interactions between nitrogen dynamics and the phytoplankton community in Lake George, Florida, USA. *Lake and Reservoir Management*, **2009**, 25, 1-14	1.3	17
95	Controlling Eutrophication along the Freshwater-Marine Continuum: Dual Nutrient (N and P) Reductions are Essential. *Estuaries and Coasts*, **2009**, 32, 593-601	2.8	316
94	FenyMon: ferry-based monitoring and assessment of human and climatically driven environmental change in the Albemarle-Pamlico sound system. *Environmental Science & Technology*, **2009**, 43, 7609-13	10.3	14
93	Ecology. Controlling eutrophication: nitrogen and phosphorus. *Science*, **2009**, 323, 1014-5	33.3	2331
92	Climate change: a catalyst for global expansion of harmful cyanobacterial blooms. *Environmental Microbiology Reports*, **2009**, 1, 27-37	3.7	935
91	Nitrogen and Marine Eutrophication **2008**, 529-567		18
90	Climate. Blooms like it hot. *Science*, **2008**, 320, 57-8	33.3	1705
89	Coastal marine eutrophication: Control of both nitrogen and phosphorus is necessary. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, E103; author reply E104	11.5	70
88	Nutrient and other environmental controls of harmful cyanobacterial blooms along the freshwater-marine continuum. *Advances in Experimental Medicine and Biology*, **2008**, 619, 217-37	3.6	108
87	Co-occurrence of dinoflagellate and cyanobacterial harmful algal blooms in southwest Florida coastal waters: dual nutrient (N and P) input controls. *Marine Ecology - Progress Series*, **2008**, 371, 143-153	2.6	41
86	Estuarine Phytoplankton Responses to Hurricanes and Tropical Storms with Different Characteristics (Trajectory, Rainfall, Winds). *Estuaries and Coasts*, **2008**, 31, 419-429	2.8	53
85	Environmental Factors Contributing to the Development and Demise of a Toxic Dinoflagellate (Karlodinium veneficum) Bloom in a Shallow, Eutrophic, Lagoonal Estuary. *Estuaries and Coasts*, **2008**, 31, 402-418	2.8	57
84	Disturbance and recovery of microbial community structure and function following Hurricane Frances. *Environmental Microbiology*, **2007**, 9, 576-83	5.2	41
83	Effects of salinity and light on organic carbon and nitrogen uptake in a hypersaline microbial mat. *FEMS Microbiology Ecology*, **2007**, 62, 345-53	4.3	14
82	PHYTOPLANKTON INDICATORS OF ECOLOGICAL CHANGE IN THE EUTROPHYING PAMLICO SOUND SYSTEM, NORTH CAROLINA **2007**, 17, S88-S101		72
81	Ecological response to hurricane events in the Pamlico Sound system, North Carolina, and implications for assessment and management in a regime of increased frequency. *Estuaries and Coasts*, **2006**, 29, 1033-1045	2.8	70
80	Genetic variance in the composition of two functional groups (diazotrophs and cyanobacteria) from a hypersaline microbial mat. *Applied and Environmental Microbiology*, **2006**, 72, 1207-17	4.8	40

79	Anthropogenic and climatic influences on the eutrophication of large estuarine ecosystems. *Limnology and Oceanography*, **2006**, 51, 448-462	4.8	229
78	Long-term temporal and spatial trends in phytoplankton biomass and class-level taxonomic composition in the hydrologically variable Neuse-Pamlico estuarine continuum, North Carolina, U.S.A.. *Limnology and Oceanography*, **2006**, 51, 1410-1420	4.8	68
77	Nitrogenase activity and nifH expression in a marine intertidal microbial mat. *Microbial Ecology*, **2005**, 49, 315-24	4.4	31
76	Denitrification rates measured along a salinity gradient in the eutrophic Neuse River estuary, North Carolina, USA. *Estuaries and Coasts*, **2005**, 28, 608-619		45
75	Phytoplankton uptake of ammonium, nitrate and urea in the Neuse River Estuary, NC, USA. *Hydrobiologia*, **2005**, 533, 123-134	2.4	55
74	Impacts of inorganic nutrient enrichment on phytoplankton community structure and function in Pamlico Sound, NC, USA. *Estuarine, Coastal and Shelf Science*, **2004**, 61, 197-209	2.9	86
73	Solving problems resulting from solutions: evolution of a dual nutrient management strategy for the eutrophying Neuse River Estuary, North Carolina. *Environmental Science & Technology*, **2004**, 38, 3068-73	10.3	139
72	Water quality and phytoplankton as indicators of hurricane impacts on a large estuarine ecosystem. *Estuaries and Coasts*, **2003**, 26, 1329-1343		110
71	Scaling up: the next challenge in environmental microbiology. *Environmental Microbiology*, **2003**, 5, 1025-38	5.2	35
70	Hypersaline cyanobacterial mats as indicators of elevated tropical hurricane activity and associated climate change. *Ambio*, **2003**, 32, 87-90	6.5	30
69	Phytoplankton Photopigments as Indicators of Estuarine and Coastal Eutrophication. *BioScience*, **2003**, 53, 953	5.7	138
68	Atmospheric deposition of nitrogen: Implications for nutrient over-enrichment of coastal waters. *Estuaries and Coasts*, **2002**, 25, 677-693		213
67	Salinity effects on growth, photosynthetic parameters, and nitrogenase activity in estuarine planktonic cyanobacteria. *Microbial Ecology*, **2002**, 43, 432-442	4.4	154
66	Small-scale shear effects on heterocystous cyanobacteria. *Limnology and Oceanography*, **2002**, 47, 108-119	4.8	67
65	Estimating the spatial extent of bottom-water hypoxia and habitat degradation in a shallow estuary. *Marine Ecology - Progress Series*, **2002**, 230, 103-112	2.6	92
64	Diazotrophy in Modern Marine Bahamian Stromatolites. *Microbial Ecology*, **2001**, 41, 36-44	4.4	40
63	Distribution of Nitrogen-Fixing Microorganisms along the Neuse River Estuary, North Carolina. *Microbial Ecology*, **2001**, 41, 114-123	4.4	55
62	Bacterially mediated precipitation in marine stromatolites. *Environmental Microbiology*, **2001**, 3, 123-30	5.2	90

61	Responses of estuarine phytoplankton communities to nitrogen form and mixing using microcosm bioassays. *Estuaries and Coasts*, **2001**, 24, 828		13
60	Ecosystem impacts of three sequential hurricanes (Dennis, Floyd, and Irene) on the United States' largest lagoonal estuary, Pamlico Sound, NC. *Proceedings of the National Academy of Sciences of the United States of America*, **2001**, 98, 5655-60	11.5	212
59	Application of photopigment biomarkers for quantifying microalgal community composition and in situ growth rates. *Organic Geochemistry*, **2001**, 32, 585-595	3.1	74
58	Spatiotemporal variability of wet atmospheric nitrogen deposition to the Neuse River Estuary, North Carolina. *Journal of Environmental Quality*, **2001**, 30, 1508-15	3.4	35
57	Harmful freshwater algal blooms, with an emphasis on cyanobacteria. *Scientific World Journal, The*, **2001**, 1, 76-113	2.2	590
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