Evelyn E Gaiser

List of Publications by Year
in descending order

117 papers	3,951 citations	109321 35 h-index	149698 56 g-index
119 all docs	119 docs citations	119 times ranked	3862 citing authors

#	Article	IF	Citations
1	Derivation of lake mixing and stratification indices from high-resolution lake buoy data. Environmental Modelling and Software, 2011, 26, 1325-1336.	4.5	347
2	Ecosystem respiration: Drivers of daily variability and background respiration in lakes around the globe. Limnology and Oceanography, 2013, 58, 849-866.	3.1	195
3	Effects of weatherâ€related episodic events in lakes: an analysis based on highâ€frequency data. Freshwater Biology, 2012, 57, 589-601.	2.4	135
4	Periphyton responses to eutrophication in the Florida Everglades: Crossâ€system patterns of structural and compositional change. Limnology and Oceanography, 2006, 51, 617-630.	3.1	134
5	Spatial and temporal patterns of aboveground net primary productivity (ANPP) along two freshwater-estuarine transects in the Florida Coastal Everglades. Hydrobiologia, 2006, 569, 459-474.	2.0	120
6	Cascading Ecological Effects of Lowâ€Level Phosphorus Enrichment in the Florida Everglades. Journal of Environmental Quality, 2005, 34, 717-723.	2.0	113
7	Periphyton as an indicator of restoration in the Florida Everglades. Ecological Indicators, 2009, 9, S37-S45.	6.3	101
8	Phosphorus in periphyton mats provides the best metric for detecting low-level P enrichment in an oligotrophic wetland. Water Research, 2004, 38, 507-516.	11.3	95
9	Surprises and Insights from Long-Term Aquatic Data Sets and Experiments. BioScience, 2012, 62, 709-721.	4.9	89
10	Climate change drives widespread shifts in lake thermal habitat. Nature Climate Change, 2021, 11, 521-529.	18.8	87
11	Landscape Patterns of Periphyton in the Florida Everglades. Critical Reviews in Environmental Science and Technology, 2011, 41, 92-120.	12.8	77
12	Spatial and temporal distributions of epiphytic diatoms growing on Thalassia testudinum Banks ex KÃ¶nig: relationships to water quality. Hydrobiologia, 2006, 569, 259-271.	2.0	66
13	THE GLOBAL LAKE ECOLOGICAL OBSERVATORY NETWORK (GLEON): THE EVOLUTION OF GRASSROOTS NETWORK SCIENCE. Limnology and Oceanography Bulletin, 2013, 22, 71-73.	0.4	65
14	FRESHWATER DIATOMS FROM CAROLINA BAYS AND OTHER ISOLATED WETLANDS ON THE ATLANTIC COASTAL PLAIN OF SOUTH CAROLINA, U.S.A., WITH DESCRIPTIONS OF SEVEN TAXA NEW TO SCIENCE. Diatom Research, 2000, 15, 75-130.	1.2	63
15	Everglades Periphyton: A Biogeochemical Perspective. Critical Reviews in Environmental Science and Technology, 2011, 41, 309-343.	12.8	63
16	A Global Lake Ecological Observatory Network (GLEON) for synthesising highâ€“frequency sensor data for validation of deterministic ecological models. Inland Waters, 2015, 5, 49-56.	2.2	62
17	Hurricanes fertilize mangrove forests in the Gulf of Mexico (Florida Everglades, USA). Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 4831-4841.	7.1	61
18	Comparative study of periphyton community structure in long and short-hydroperiod Everglades marshes. Hydrobiologia, 2006, 569, 195-207.	2.0	58

#	Article	IF	Citations
19	Deeper waters are changing less consistently than surface waters in a global analysis of 102 lakes. Scientific Reports, 2020, 10, 20514.	3.3	56
20	Time-scale dependence in numerical simulations: Assessment of physical, chemical, and biological predictions in a stratified lake at temporal scales of hours to months. Environmental Modelling and Software, 2012, 35, 104-121.	4.5	55
21	Title is missing!. Biogeochemistry, 2002, 59, 239-267.	3.5	53
22	Effects of desiccation duration on the community structure and nutrient retention of short and long-hydroperiod Everglades periphyton mats. Aquatic Botany, 2005, 82, 99-112.	1.6	51
23	Tracking rates of ecotone migration due to salt-water encroachment using fossil mollusks in coastal South Florida. Hydrobiologia, 2006, 569, 237-257.	2.0	49
24	CHARACTERIZATION OFAMPHORAANDSEMINAVISFROM SOUTH FLORIDA, U.S.A.. Diatom Research, 2007, 22, 387-455.	1.2	49
25	Southern marl prairies conceptual ecological model. Wetlands, 2005, 25, 821-831.	1.5	48
26	Assessment of Everglades mangrove forest resilience: Implications for above-ground net primary productivity and carbon dynamics. Forest Ecology and Management, 2017, 404, 115-125.	3.2	48
27	Distribution of Diatoms and Development of Diatom-Based Models for Inferring Salinity and Nutrient Concentrations in Florida Bay and Adjacent Coastal Wetlands of South Florida (USA). Estuaries and Coasts, 2010, 33, 1080-1098.	2.2	45
28	Integrated Carbon Budget Models for the Everglades Terrestrial-Coastal-Oceanic Gradient: Current Status and Needs for Inter-Site Comparisons. Oceanography, 2013, 26, 98-107.	1.0	45
29	Saltwater intrusion and soil carbon loss: Testing effects of salinity and phosphorus loading on microbial functions in experimental freshwater wetlands. Geoderma, 2019, 337, 1291-1300.	5.1	44
30	Occurrence of C25 highly branched isoprenoids (HBIs) in Florida Bay: Paleoenvironmental indicators of diatom-derived organic matter inputs. Organic Geochemistry, 2006, 37, 847-859.	1.8	40
31	Declines in Plant Productivity Drive Carbon Loss from Brackish Coastal Wetland Mesocosms Exposed to Saltwater Intrusion. Estuaries and Coasts, 2018, 41, 2147-2158.	2.2	40
32	Experimental Saltwater Intrusion Drives Rapid Soil Elevation and Carbon Loss in Freshwater and Brackish Everglades Marshes. Estuaries and Coasts, 2019, 42, 1868-1881.	2.2	40
33	NUTRIENT EFFECTS ON SEAGRASS EPIPHYTE COMMUNITY STRUCTURE IN FLORIDA BAY¹. Journal of Phycology, 2009, 45, 1010-1020.	2.3	39
34	The International Long Term Ecological Research Network: a platform for collaboration. Ecosphere, 2017, 8, e01697.	2.2	39
35	Effects of climate variability on transparency and thermal structure in subtropical, monomictic Lake Annie, Florida. Fundamental and Applied Limnology, 2009, 175, 217-230.	0.7	38
36	A review of subtropical community resistance and resilience to extreme cold spells. Ecosphere, 2016, 7, e01455.	2.2	38

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37	Long-Term Ecological Research and Evolving Frameworks of Disturbance Ecology. BioScience, 2020, 70, 141-156.	4.9	37
38	Title is missing!. Journal of Paleolimnology, 1998, 20, 71-90.	1.6	35
39	Mercury Mass Budget Estimates and Cycling Seasonality in the Florida Everglades. Environmental Science & Technology, 2008, 42, 1954-1960.	10.0	34
40	Salinity pulses interact with seasonal dryâ€down to increase ecosystem carbon loss in marshes of the Florida Everglades. Ecological Applications, 2018, 28, 2092-2108.	3.8	34
41	Quantifying the responses of calcareous periphyton crusts to rehydration: A microcosm study (Florida Everglades). Aquatic Botany, 2006, 84, 317-323.	1.6	32
42	Controls on Ecosystem Carbon Dioxide Exchange in Short- and Long-Hydroperiod Florida Everglades Freshwater Marshes. Wetlands, 2012, 32, 801-812.	1.5	32
43	Ecology and distribution of diatoms in Biscayne Bay, Florida (USA): Implications for bioassessment and paleoenvironmental studies. Ecological Indicators, 2011, 11, 622-632.	6.3	30
44	Benthic diatom assemblages as indicators of water quality in the Everglades and three tropical karstic wetlands. Freshwater Science, 2012, 31, 205-221.	1.8	30
45	Multidecadal climate oscillations detected in a transparency record from a subtropical Florida lake. Limnology and Oceanography, 2009, 54, 2228-2232.	3.1	29
46	Advancing Theories of Ecosystem Development through Long-Term Ecological Research. BioScience, 2018, 68, 554-562.	4.9	28
47	Long-term demography and stem productivity of Everglades mangrove forests (Florida, USA): Resistance to hurricane disturbance. Forest Ecology and Management, 2019, 440, 79-91.	3.2	27
48	Effect of temperature on organic matter transformation in a different ambient nutrient availability. Ecological Engineering, 2012, 49, 27-34.	3.6	26
49	Interpreting the hydrological history of a temporary pond from chemical and microscopic characterization of siliceous microfossils. Journal of Paleolimnology, 2004, 31, 63-76.	1.6	25
50	The Influence of Hydrologic Restoration on Groundwater-Surface Water Interactions in a Karst Wetland, the Everglades (FL, USA). Wetlands, 2014, 34, 23-35.	1.5	25
51	Phosphorus alleviation of salinity stress: effects of saltwater intrusion on an Everglades freshwater peat marsh. Ecology, 2019, 100, e02672.	3.2	25
52	Diatoms as indicators of environmental change in wetlands and peatlands. , 2010, , 473-496.		25
53	The ecology and taxonomy of epizoic diatoms on Cladocera. Limnology and Oceanography, 1993, 38, 628-637.	3.1	23
54	Relative roles of dispersal dynamics and competition in determining the isotopic niche breadth of a wetland fish. Freshwater Biology, 2013, 58, 780-792.	2.4	23

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55	Title is missing!. Journal of Paleolimnology, 2001, 26, 373-391.	1.6	22
56	Biotic and abiotic determinants of intermediate-consumer trophic diversity in the Florida everglades. Marine and Freshwater Research, 2010, 61, 11.	1.3	22
57	Exploring the role of large predators in marsh food webs: evidence for a behaviorally-mediated trophic cascade. Hydrobiologia, 2006, 569, 375-386.	2.0	21
58	Indirect and direct controls of macroinvertebrates and small fish by abiotic factors and trophic interactions in the Florida Everglades. Freshwater Biology, 2011, 56, 2334-2346.	2.4	21
59	Hydrological Conditions Control P Loading and Aquatic Metabolism in an Oligotrophic, Subtropical Estuary. Estuaries and Coasts, 2012, 35, 292-307.	2.2	21
60	Distribution of Diatoms Along Environmental Gradients in the Charlotte Harbor, Florida (USA), Estuary and Its Watershed: Implications for Bioassessment of Salinity and Nutrient Concentrations. Estuaries and Coasts, 2014, 37, 864-879.	2.2	20
61	Seasonality, substrate perference and attachment sites of epizoic diatoms on cladoceran zooplankton. Journal of Plankton Research, 1994, 16, 53-68.	1.8	18
62	Effects of shading on calcareous benthic periphyton in a short-hydroperiod oligotrophic wetland (Everglades, FL, USA). Hydrobiologia, 2006, 569, 209-221.	2.0	18
63	Diatom-based Models for Inferring Hydrology and Periphyton Abundance in a Subtropical Karstic Wetland: Implications for Ecosystem-Scale Bioassessment. Wetlands, 2013, 33, 157-173.	1.5	18
64	Wetland Ecosystem Response to Hydrologic Restoration and Management: The Everglades and its Urban-Agricultural Boundary (FL, USA). Wetlands, 2014, 34, 1-8.	1.5	18
65	Metacommunity Structure Along Resource and Disturbance Gradients in Everglades Wetlands. Wetlands, 2014, 34, 135-146.	1.5	18
66	A new technique for examining the physical structure of Everglades floating periphyton mat. Nova Hedwigia, 2004, 78, 107-119.	0.4	17
67	Response of diatom assemblages to 130Âyears of environmental change in Florida Bay (USA). Journal of Paleolimnology, 2013, 49, 83-101.	1.6	17
68	Diatom-based paleolimnological reconstruction of regional climate and local land-use change from a protected sinkhole lake in southern Florida, USA. Journal of Paleolimnology, 2013, 49, 15-30.	1.6	16
69	Morphology and typification ofMastogloia smithiiandM. lacustris, with descriptions of two new species from the Florida Everglades and the Caribbean region. Diatom Research, 2014, 29, 325-350.	1.2	16
70	Disturbance legacies increase and synchronize nutrient concentrations and bacterial productivity in coastal ecosystems. Ecology, 2020, 101, e02988.	3.2	16
71	Measuring Freshwater Primary Production and Respiration. , 2007, , 175-203.		16
72	Legacy and Fate of Mercury and Methylmercury in the Florida Everglades. Environmental Science & Technology, 2011, 45, 496-501.	10.0	15

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73	Stormwater Runoff and Tidal Flooding Transform Dissolved Organic Matter Composition and Increase Bioavailability in Urban Coastal Ecosystems. Journal of Geophysical Research G: Biogeosciences, 2021, 126, e2020JG006146.	3.0	15
74	Correspondence of historic salinity fluctuations in Florida Bay, USA, to atmospheric variability and anthropogenic changes. Journal of Paleolimnology, 2013, 49, 103-115.	1.6	14
75	Impact of Late Holocene climate variability and anthropogenic activities on Biscayne Bay (Florida,) Tj ETQq1 1 0.784314 rgBT /Overlock	2.3	14
76	Boundary Effects on Benthic Microbial Phosphorus Concentrations and Diatom Beta Diversity in a Hydrologically-modified, Nutrient-limited Wetland. Wetlands, 2014, 34, 55-64.	1.5	14
77	Effects of Saltwater Pulses on Soil Microbial Enzymes and Organic Matter Breakdown in Freshwater and Brackish Coastal Wetlands. Estuaries and Coasts, 2020, 43, 814-830.	2.2	14
78	Growth of Calcareous Epilithic Mats in the Margin of Natural and Polluted Hydrosystems: Phosphorus Removal Implications in the Câ€“111 Basin, Florida Everglades, USA. Lake and Reservoir Management, 2002, 18, 324-330.	1.3	13
79	Mastogloia smithiivarlacustrisGrun.: A Structural Engineer of Calcareous Mats in Karstic Subtropical Wetlands. Proceedings of the Academy of Natural Sciences of Philadelphia, 2010, 160, 99-112.	0.5	13
80	Diatoms as tools for inferring ecotone boundaries in a coastal freshwater wetland threatened by saltwater intrusion. Ecological Indicators, 2018, 88, 190-204.	6.3	13
81	Water quality implications of hydrologic restoration alternatives in the Florida Everglades, United States. Restoration Ecology, 2017, 25, S48.	2.9	12
82	Algal richness and lifeâ€history strategies are influenced by hydrology and phosphorus in two major subtropical wetlands. Freshwater Biology, 2017, 62, 274-290.	2.4	12
83	Estuarine paleoenvironmental reconstructions using diatoms. , 0, , 324-345.		12
84	Challenges in using siliceous subfossils as a tool for inferring past water level and hydroperiod in Everglades marshes. Journal of Paleolimnology, 2013, 49, 45-66.	1.6	11
85	The relative importance of photodegradation and biodegradation of terrestrially derived dissolved organic carbon across four lakes of differing trophic status. Biogeosciences, 2020, 17, 6327-6340.	3.3	11
86	Distribution of Cladoceran Zooplankton Among Prairie Pothole Wetlands in Northwest Iowa. Lake and Reservoir Management, 1998, 14, 37-51.	1.3	10
87	TAXONOMY AND DISTRIBUTION OF DIATOMS IN THE GENUSGOMPHONEMAFROM THE FLORIDA EVERGLADES, U.S.A.. Diatom Research, 2006, 21, 379-405.	1.2	10
88	Functional and Compositional Responses of Periphyton Mats to Simulated Saltwater Intrusion in the Southern Everglades. Estuaries and Coasts, 2018, 41, 2105-2119.	2.2	10
89	Why Do We Need to Document and Conserve Foundation Species in Freshwater Wetlands?. Water (Switzerland), 2019, 11, 265.	2.7	10
90	The extent and variability of stormâ€induced temperature changes in lakes measured with longâ€term and highâ€frequency data. Limnology and Oceanography, 2021, 66, 1979-1992.	3.1	10

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91	New perspectives on an iconic landscape from comparative international longâ€term ecological research. Ecosphere, 2015, 6, 1-18.	2.2	9
92	Sensitivity to Low-Temperature Events: Implications for CO2 Dynamics in Subtropical Coastal Ecosystems. Wetlands, 2016, 36, 957-967.	1.5	9
93	Episodic disturbances drive nutrient dynamics along freshwaterâ€toâ€estuary gradients in a subtropical wetland. Ecosphere, 2018, 9, e02296.	2.2	9
94	Quantifying effects of increased hydroperiod on wetland nutrient concentrations during early phases of freshwater restoration of the Florida Everglades. Restoration Ecology, 2020, 28, 1561-1573.	2.9	9
95	Tropical cyclones cumulatively control regional carbon fluxes in Everglades mangrove wetlands (Florida, USA). Scientific Reports, 2021, 11, 13927.	3.3	9
96	Comment on â€œEstimating Ecological Thresholds for Phosphorus in the Evergladesâ€• Environmental Science & Technology, 2008, 42, 6770-6771.	10.0	7
97	Water Quality and Wet Season Diatom Assemblage Characteristics from the Tamiami Trail Pilot Swales Sites (Everglades National Park, Florida, USA). Phytotaxa, 2013, 127, 163.	0.3	7
98	Seasonal differences and response to a tropical storm reflected in diatom assemblage changes in a southwest Florida watershed. Ecological Indicators, 2015, 57, 139-148.	6.3	7
99	Global data set of long-term summertime vertical temperature profiles in 153 lakes. Scientific Data, 2021, 8, 200.	5.3	7
100	Interaction of hydrology and nutrients in controlling ecosystem function in oligotrophic coastal environments of South Florida. Hydrobiologia, 2006, 569, 1-2.	2.0	6
101	Paleoenvironmental change in wetlands of the Florida Everglades, southeast USA. Journal of Paleolimnology, 2013, 49, 1-3.	1.6	6
102	Dissolved organic carbon as a driver of seasonal and multiyear phytoplankton assembly oscillations in a subtropical monomictic lake. Limnology and Oceanography, 2022, 67, .	3.1	6
103	Potential N processing by southern Everglades freshwater marshes: Are Everglades marshes passive conduits for nitrogen?. Estuarine, Coastal and Shelf Science, 2012, 96, 60-68.	2.1	4
104	Sensitivity of wetland hydrology to external climate forcing in central Florida. Quaternary Research, 2015, 84, 287-300.	1.7	4
105	Phosphorus scarcity and desiccation stress increase the occurrence of dominant taxa in wetland benthic primary producer communities. Aquatic Ecology, 2017, 51, 571-589.	1.5	4
106	Short-Term Effects of Drying-Rewetting and Long-Term Effects of Nutrient Loading on Periphyton N:P Stoichiometry. Water (Switzerland), 2018, 10, 105.	2.7	4
107	Effects of Nutrient-Limitation on Disturbance Recovery in Experimental Mangrove Wetlands. Wetlands, 2019, 39, 337-347.	1.5	4
108	Percentile-Range Indexed Mapping and Evaluation (PRIME): A new tool for long-term data discovery and application. Environmental Modelling and Software, 2020, 124, 104580.	4.5	4

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109	The Importance of Species-Based Microbial Assessment of Water Quality in Freshwater Everglades Wetlands. , 2015, , 115-130.		4
110	Water Column Microbial Communities Vary along Salinity Gradients in the Florida Coastal Everglades Wetlands. Microorganisms, 2022, 10, 215.	3.6	4
111	Longâ€term ecological research and the <scp>COVID</scp>â€19 anthropause: A window to understanding socialâ€“ecological disturbance. Ecosphere, 2022, 13, e4019.	2.2	4
112	Scale and spatial consistency of specialization in an endemic and abundant freshwater diatom from the Caribbean Basin. Freshwater Science, 2017, 36, 542-554.	1.8	3
113	Long-term changes in spatially structured benthic diatom assemblages in a major subtropical wetland under restoration. Inland Waters, 2018, 8, 434-448.	2.2	2
114	Periphyton as an indicator of saltwater intrusion into freshwater wetlands: insights from experimental manipulations. Ecological Applications, 2020, 30, e02067.	3.8	2
115	Examining Seasonally Pulsed Detrital Transport in the Coastal Everglades Using a Sediment Tracing Technique. Wetlands, 2014, 34, 123-133.	1.5	1
116	Here today, not gone tomorrow?. Frontiers in Ecology and the Environment, 2005, 3, 452-453.	4.0	0
117	Fistulifera alcalina sp. nov. (Naviculales, Stauroneidaceae) a new alkaliphilic diatom species from Lake Okeechobee, Florida (USA). Diatom Research, 2020, 35, 301-311.	1.2	0