

Evelyn E Gaiser

List of Publications by Year in descending order

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Version: 2024-02-01

117
papers

3,951
citations

109137

35
h-index

149479

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. <i>Environmental Modelling and Software</i> , 2011, 26, 1325-1336.	1.9	347
2	Ecosystem respiration: Drivers of daily variability and background respiration in lakes around the globe. <i>Limnology and Oceanography</i> , 2013, 58, 849-866.	1.6	195
3	Effects of weather-related episodic events in lakes: an analysis based on high-frequency data. <i>Freshwater Biology</i> , 2012, 57, 589-601.	1.2	135
4	Periphyton responses to eutrophication in the Florida Everglades: Cross-system patterns of structural and compositional change. <i>Limnology and Oceanography</i> , 2006, 51, 617-630.	1.6	134
5	Spatial and temporal patterns of aboveground net primary productivity (ANPP) along two freshwater-estuarine transects in the Florida Coastal Everglades. <i>Hydrobiologia</i> , 2006, 569, 459-474.	1.0	120
6	Cascading Ecological Effects of Low-level Phosphorus Enrichment in the Florida Everglades. <i>Journal of Environmental Quality</i> , 2005, 34, 717-723.	1.0	113
7	Periphyton as an indicator of restoration in the Florida Everglades. <i>Ecological Indicators</i> , 2009, 9, S37-S45.	2.6	101
8	Phosphorus in periphyton mats provides the best metric for detecting low-level P enrichment in an oligotrophic wetland. <i>Water Research</i> , 2004, 38, 507-516.	5.3	95
9	Surprises and Insights from Long-Term Aquatic Data Sets and Experiments. <i>BioScience</i> , 2012, 62, 709-721.	2.2	89
10	Climate change drives widespread shifts in lake thermal habitat. <i>Nature Climate Change</i> , 2021, 11, 521-529.	8.1	87
11	Landscape Patterns of Periphyton in the Florida Everglades. <i>Critical Reviews in Environmental Science and Technology</i> , 2011, 41, 92-120.	6.6	77
12	Spatial and temporal distributions of epiphytic diatoms growing on <i>Thalassia testudinum</i> Banks ex König: relationships to water quality. <i>Hydrobiologia</i> , 2006, 569, 259-271.	1.0	66
13	THE GLOBAL LAKE ECOLOGICAL OBSERVATORY NETWORK (GLEON): THE EVOLUTION OF GRASSROOTS NETWORK SCIENCE. <i>Limnology and Oceanography Bulletin</i> , 2013, 22, 71-73.	0.2	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. <i>Diatom Research</i> , 2000, 15, 75-130.	0.5	63
15	Everglades Periphyton: A Biogeochemical Perspective. <i>Critical Reviews in Environmental Science and Technology</i> , 2011, 41, 309-343.	6.6	63
16	A Global Lake Ecological Observatory Network (GLEON) for synthesising high-frequency sensor data for validation of deterministic ecological models. <i>Inland Waters</i> , 2015, 5, 49-56.	1.1	62
17	Hurricanes fertilize mangrove forests in the Gulf of Mexico (Florida Everglades, USA). <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 4831-4841.	3.3	61
18	Comparative study of periphyton community structure in long and short-hydroperiod Everglades marshes. <i>Hydrobiologia</i> , 2006, 569, 195-207.	1.0	58

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19	Deeper waters are changing less consistently than surface waters in a global analysis of 102 lakes. <i>Scientific Reports</i> , 2020, 10, 20514.	1.6	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. <i>Environmental Modelling and Software</i> , 2012, 35, 104-121.	1.9	55
21	Title is missing!. <i>Biogeochemistry</i> , 2002, 59, 239-267.	1.7	53
22	Effects of desiccation duration on the community structure and nutrient retention of short and long-hydroperiod Everglades periphyton mats. <i>Aquatic Botany</i> , 2005, 82, 99-112.	0.8	51
23	Tracking rates of ecotone migration due to salt-water encroachment using fossil mollusks in coastal South Florida. <i>Hydrobiologia</i> , 2006, 569, 237-257.	1.0	49
24	CHARACTERIZATION OF <i>AMPHORA</i> AND <i>SEMINAVIS</i> FROM SOUTH FLORIDA, U.S.A.. <i>Diatom Research</i> , 2007, 22, 387-455.	0.5	49
25	Southern marl prairies conceptual ecological model. <i>Wetlands</i> , 2005, 25, 821-831.	0.7	48
26	Assessment of Everglades mangrove forest resilience: Implications for above-ground net primary productivity and carbon dynamics. <i>Forest Ecology and Management</i> , 2017, 404, 115-125.	1.4	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). <i>Estuaries and Coasts</i> , 2010, 33, 1080-1098.	1.0	45
28	Integrated Carbon Budget Models for the Everglades Terrestrial-Coastal-Oceanic Gradient: Current Status and Needs for Inter-Site Comparisons. <i>Oceanography</i> , 2013, 26, 98-107.	0.5	45
29	Saltwater intrusion and soil carbon loss: Testing effects of salinity and phosphorus loading on microbial functions in experimental freshwater wetlands. <i>Geoderma</i> , 2019, 337, 1291-1300.	2.3	44
30	Occurrence of C25 highly branched isoprenoids (HBIs) in Florida Bay: Paleoenvironmental indicators of diatom-derived organic matter inputs. <i>Organic Geochemistry</i> , 2006, 37, 847-859.	0.9	40
31	Declines in Plant Productivity Drive Carbon Loss from Brackish Coastal Wetland Mesocosms Exposed to Saltwater Intrusion. <i>Estuaries and Coasts</i> , 2018, 41, 2147-2158.	1.0	40
32	Experimental Saltwater Intrusion Drives Rapid Soil Elevation and Carbon Loss in Freshwater and Brackish Everglades Marshes. <i>Estuaries and Coasts</i> , 2019, 42, 1868-1881.	1.0	40
33	NUTRIENT EFFECTS ON SEAGRASS EPIPHYTE COMMUNITY STRUCTURE IN FLORIDA BAY ¹ . <i>Journal of Phycology</i> , 2009, 45, 1010-1020.	1.0	39
34	The International Long Term Ecological Research Network: a platform for collaboration. <i>Ecosphere</i> , 2017, 8, e01697.	1.0	39
35	Effects of climate variability on transparency and thermal structure in subtropical, monomictic Lake Annie, Florida. <i>Fundamental and Applied Limnology</i> , 2009, 175, 217-230.	0.4	38
36	A review of subtropical community resistance and resilience to extreme cold spells. <i>Ecosphere</i> , 2016, 7, e01455.	1.0	38

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37	Long-Term Ecological Research and Evolving Frameworks of Disturbance Ecology. <i>BioScience</i> , 2020, 70, 141-156.	2.2	37
38	Title is missing!. <i>Journal of Paleolimnology</i> , 1998, 20, 71-90.	0.8	35
39	Mercury Mass Budget Estimates and Cycling Seasonality in the Florida Everglades. <i>Environmental Science & Technology</i> , 2008, 42, 1954-1960.	4.6	34
40	Salinity pulses interact with seasonal dry-down to increase ecosystem carbon loss in marshes of the Florida Everglades. <i>Ecological Applications</i> , 2018, 28, 2092-2108.	1.8	34
41	Quantifying the responses of calcareous periphyton crusts to rehydration: A microcosm study (Florida Everglades). <i>Aquatic Botany</i> , 2006, 84, 317-323.	0.8	32
42	Controls on Ecosystem Carbon Dioxide Exchange in Short- and Long-Hydroperiod Florida Everglades Freshwater Marshes. <i>Wetlands</i> , 2012, 32, 801-812.	0.7	32
43	Ecology and distribution of diatoms in Biscayne Bay, Florida (USA): Implications for bioassessment and paleoenvironmental studies. <i>Ecological Indicators</i> , 2011, 11, 622-632.	2.6	30
44	Benthic diatom assemblages as indicators of water quality in the Everglades and three tropical karstic wetlands. <i>Freshwater Science</i> , 2012, 31, 205-221.	0.9	30
45	Multidecadal climate oscillations detected in a transparency record from a subtropical Florida lake. <i>Limnology and Oceanography</i> , 2009, 54, 2228-2232.	1.6	29
46	Advancing Theories of Ecosystem Development through Long-Term Ecological Research. <i>BioScience</i> , 2018, 68, 554-562.	2.2	28
47	Long-term demography and stem productivity of Everglades mangrove forests (Florida, USA): Resistance to hurricane disturbance. <i>Forest Ecology and Management</i> , 2019, 440, 79-91.	1.4	27
48	Effect of temperature on organic matter transformation in a different ambient nutrient availability. <i>Ecological Engineering</i> , 2012, 49, 27-34.	1.6	26
49	Interpreting the hydrological history of a temporary pond from chemical and microscopic characterization of siliceous microfossils. <i>Journal of Paleolimnology</i> , 2004, 31, 63-76.	0.8	25
50	The Influence of Hydrologic Restoration on Groundwater-Surface Water Interactions in a Karst Wetland, the Everglades (FL, USA). <i>Wetlands</i> , 2014, 34, 23-35.	0.7	25
51	Phosphorus alleviation of salinity stress: effects of saltwater intrusion on an Everglades freshwater peat marsh. <i>Ecology</i> , 2019, 100, e02672.	1.5	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. <i>Limnology and Oceanography</i> , 1993, 38, 628-637.	1.6	23
54	Relative roles of dispersal dynamics and competition in determining the isotopic niche breadth of a wetland fish. <i>Freshwater Biology</i> , 2013, 58, 780-792.	1.2	23

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55	Title is missing!. Journal of Paleolimnology, 2001, 26, 373-391.	0.8	22
56	Biotic and abiotic determinants of intermediate-consumer trophic diversity in the Florida everglades. Marine and Freshwater Research, 2010, 61, 11.	0.7	22
57	Exploring the role of large predators in marsh food webs: evidence for a behaviorally-mediated trophic cascade. Hydrobiologia, 2006, 569, 375-386.	1.0	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.	1.2	21
59	Hydrological Conditions Control P Loading and Aquatic Metabolism in an Oligotrophic, Subtropical Estuary. Estuaries and Coasts, 2012, 35, 292-307.	1.0	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.	1.0	20
61	Seasonality, substrate preference and attachment sites of epizoic diatoms on cladoceran zooplankton. Journal of Plankton Research, 1994, 16, 53-68.	0.8	18
62	Effects of shading on calcareous benthic periphyton in a short-hydroperiod oligotrophic wetland (Everglades, FL, USA). Hydrobiologia, 2006, 569, 209-221.	1.0	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.	0.7	18
64	Wetland Ecosystem Response to Hydrologic Restoration and Management: The Everglades and its Urban-Agricultural Boundary (FL, USA). Wetlands, 2014, 34, 1-8.	0.7	18
65	Metacommunity Structure Along Resource and Disturbance Gradients in Everglades Wetlands. Wetlands, 2014, 34, 135-146.	0.7	18
66	A new technique for examining the physical structure of Everglades floating periphyton mat. Nova Hedwigia, 2004, 78, 107-119.	0.2	17
67	Response of diatom assemblages to 130 years of environmental change in Florida Bay (USA). Journal of Paleolimnology, 2013, 49, 83-101.	0.8	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.	0.8	16
69	Morphology and typification of <i>Mastogloia smithii</i> and <i>M. lacustris</i> , with descriptions of two new species from the Florida Everglades and the Caribbean region. Diatom Research, 2014, 29, 325-350.	0.5	16
70	Disturbance legacies increase and synchronize nutrient concentrations and bacterial productivity in coastal ecosystems. Ecology, 2020, 101, e02988.	1.5	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.	4.6	15

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73	Stormwater Runoff and Tidal Flooding Transform Dissolved Organic Matter Composition and Increase Bioavailability in Urban Coastal Ecosystems. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021, 126, e2020JG006146.	1.3	15
74	Correspondence of historic salinity fluctuations in Florida Bay, USA, to atmospheric variability and anthropogenic changes. <i>Journal of Paleolimnology</i> , 2013, 49, 103-115.	0.8	14
75	Impact of Late Holocene climate variability and anthropogenic activities on Biscayne Bay (Florida, USA). <i>Estuaries and Coasts</i> , 2014, 37, 1073-1084.	1.0	14
76	Boundary Effects on Benthic Microbial Phosphorus Concentrations and Diatom Beta Diversity in a Hydrologically-modified, Nutrient-limited Wetland. <i>Wetlands</i> , 2014, 34, 55-64.	0.7	14
77	Effects of Saltwater Pulses on Soil Microbial Enzymes and Organic Matter Breakdown in Freshwater and Brackish Coastal Wetlands. <i>Estuaries and Coasts</i> , 2020, 43, 814-830.	1.0	14
78	Growth of Calcareous Epilithic Mats in the Margin of Natural and Polluted Hydrosystems: Phosphorus Removal Implications in the CÁ111 Basin, Florida Everglades, USA. <i>Lake and Reservoir Management</i> , 2002, 18, 324-330.	0.4	13
79	<i>Mastogloia smithii</i> var. <i>lacustris</i> Grun.: A Structural Engineer of Calcareous Mats in Karstic Subtropical Wetlands. <i>Proceedings of the Academy of Natural Sciences of Philadelphia</i> , 2010, 160, 99-112.	1.3	13
80	Diatoms as tools for inferring ecotone boundaries in a coastal freshwater wetland threatened by saltwater intrusion. <i>Ecological Indicators</i> , 2018, 88, 190-204.	2.6	13
81	Water quality implications of hydrologic restoration alternatives in the Florida Everglades, United States. <i>Restoration Ecology</i> , 2017, 25, S48.	1.4	12
82	Algal richness and life history strategies are influenced by hydrology and phosphorus in two major subtropical wetlands. <i>Freshwater Biology</i> , 2017, 62, 274-290.	1.2	12
83	Estuarine paleoenvironmental reconstructions using diatoms. <i>Estuaries and Coasts</i> , 2014, 37, 324-345.		12
84	Challenges in using siliceous microfossils as a tool for inferring past water level and hydroperiod in Everglades marshes. <i>Journal of Paleolimnology</i> , 2013, 49, 45-66.	0.8	11
85	The relative importance of photodegradation and biodegradation of terrestrially derived dissolved organic carbon across four lakes of differing trophic status. <i>Biogeosciences</i> , 2020, 17, 6327-6340.	1.3	11
86	Distribution of Cladoceran Zooplankton Among Prairie Pothole Wetlands in Northwest Iowa. <i>Lake and Reservoir Management</i> , 1998, 14, 37-51.	0.4	10
87	TAXONOMY AND DISTRIBUTION OF DIATOMS IN THE GENUS <i>GOMPHONEMA</i> FROM THE FLORIDA EVERGLADES, U.S.A.. <i>Diatom Research</i> , 2006, 21, 379-405.	0.5	10
88	Functional and Compositional Responses of Periphyton Mats to Simulated Saltwater Intrusion in the Southern Everglades. <i>Estuaries and Coasts</i> , 2018, 41, 2105-2119.	1.0	10
89	Why Do We Need to Document and Conserve Foundation Species in Freshwater Wetlands?. <i>Water (Switzerland)</i> , 2019, 11, 265.	1.2	10
90	The extent and variability of storm-induced temperature changes in lakes measured with long-term and high-frequency data. <i>Limnology and Oceanography</i> , 2021, 66, 1979-1992.	1.6	10

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91	New perspectives on an iconic landscape from comparative international long-term ecological research. <i>Ecosphere</i> , 2015, 6, 1-18.	1.0	9
92	Sensitivity to Low-Temperature Events: Implications for CO2 Dynamics in Subtropical Coastal Ecosystems. <i>Wetlands</i> , 2016, 36, 957-967.	0.7	9
93	Episodic disturbances drive nutrient dynamics along freshwater-estuary gradients in a subtropical wetland. <i>Ecosphere</i> , 2018, 9, e02296.	1.0	9
94	Quantifying effects of increased hydroperiod on wetland nutrient concentrations during early phases of freshwater restoration of the Florida Everglades. <i>Restoration Ecology</i> , 2020, 28, 1561-1573.	1.4	9
95	Tropical cyclones cumulatively control regional carbon fluxes in Everglades mangrove wetlands (Florida, USA). <i>Scientific Reports</i> , 2021, 11, 13927.	1.6	9
96	Comment on "Estimating Ecological Thresholds for Phosphorus in the Everglades". <i>Environmental Science & Technology</i> , 2008, 42, 6770-6771.	4.6	7
97	Water Quality and Wet Season Diatom Assemblage Characteristics from the Tamiami Trail Pilot Swales Sites (Everglades National Park, Florida, USA). <i>Phytotaxa</i> , 2013, 127, 163.	0.1	7
98	Seasonal differences and response to a tropical storm reflected in diatom assemblage changes in a southwest Florida watershed. <i>Ecological Indicators</i> , 2015, 57, 139-148.	2.6	7
99	Global data set of long-term summertime vertical temperature profiles in 153 lakes. <i>Scientific Data</i> , 2021, 8, 200.	2.4	7
100	Interaction of hydrology and nutrients in controlling ecosystem function in oligotrophic coastal environments of South Florida. <i>Hydrobiologia</i> , 2006, 569, 1-2.	1.0	6
101	Paleoenvironmental change in wetlands of the Florida Everglades, southeast USA. <i>Journal of Paleolimnology</i> , 2013, 49, 1-3.	0.8	6
102	Dissolved organic carbon as a driver of seasonal and multiyear phytoplankton assembly oscillations in a subtropical monomictic lake. <i>Limnology and Oceanography</i> , 2022, 67, .	1.6	6
103	Potential N processing by southern Everglades freshwater marshes: Are Everglades marshes passive conduits for nitrogen?. <i>Estuarine, Coastal and Shelf Science</i> , 2012, 96, 60-68.	0.9	4
104	Sensitivity of wetland hydrology to external climate forcing in central Florida. <i>Quaternary Research</i> , 2015, 84, 287-300.	1.0	4
105	Phosphorus scarcity and desiccation stress increase the occurrence of dominant taxa in wetland benthic primary producer communities. <i>Aquatic Ecology</i> , 2017, 51, 571-589.	0.7	4
106	Short-Term Effects of Drying-Rewetting and Long-Term Effects of Nutrient Loading on Periphyton N:P Stoichiometry. <i>Water (Switzerland)</i> , 2018, 10, 105.	1.2	4
107	Effects of Nutrient-Limitation on Disturbance Recovery in Experimental Mangrove Wetlands. <i>Wetlands</i> , 2019, 39, 337-347.	0.7	4
108	Percentile-Range Indexed Mapping and Evaluation (PRIME): A new tool for long-term data discovery and application. <i>Environmental Modelling and Software</i> , 2020, 124, 104580.	1.9	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.	1.6	4
111	Long-term ecological research and the <sc>COVID</sc>-19 anthropause: A window to understanding social-ecological disturbance. Ecosphere, 2022, 13, e4019.	1.0	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.	0.9	3
113	Long-term changes in spatially structured benthic diatom assemblages in a major subtropical wetland under restoration. Inland Waters, 2018, 8, 434-448.	1.1	2
114	Periphyton as an indicator of saltwater intrusion into freshwater wetlands: insights from experimental manipulations. Ecological Applications, 2020, 30, e02067.	1.8	2
115	Examining Seasonally Pulsed Detrital Transport in the Coastal Everglades Using a Sediment Tracing Technique. Wetlands, 2014, 34, 123-133.	0.7	1
116	Here today, not gone tomorrow?. Frontiers in Ecology and the Environment, 2005, 3, 452-453.	1.9	0
117	Fistulifera alcalina sp. nov. (Naviculales, Stauroneidaceae) a new alkaliphilic diatom species from Lake Okeechobee, Florida (USA). Diatom Research, 2020, 35, 301-311.	0.5	0