

Steven E Lohrenz

List of Publications by Year in descending order

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83
papers

6,555
citations

81900

39
h-index

69250

77
g-index

91
all docs

91
docs citations

91
times ranked

6573
citing authors

#	ARTICLE	IF	CITATIONS
1	Acidification of subsurface coastal waters enhanced by eutrophication. <i>Nature Geoscience</i> , 2011, 4, 766-770.	12.9	928
2	A comparison of global estimates of marine primary production from ocean color. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2006, 53, 741-770.	1.4	574
3	Transformation of dissolved and particulate materials on continental shelves influenced by large rivers: plume processes. <i>Continental Shelf Research</i> , 2004, 24, 833-858.	1.8	435
4	Nutrients, irradiance, and mixing as factors regulating primary production in coastal waters impacted by the Mississippi River plume. <i>Continental Shelf Research</i> , 1999, 19, 1113-1141.	1.8	288
5	Comparison of algorithms for estimating ocean primary production from surface chlorophyll, temperature, and irradiance. <i>Global Biogeochemical Cycles</i> , 2002, 16, 9-1-9-15.	4.9	232
6	Enhanced primary production at the plume/oceanic interface of the Mississippi River. <i>Continental Shelf Research</i> , 1990, 10, 639-664.	1.8	221
7	Seasonal patterns of ocean biogeochemistry at the U.S. JGOFS Bermuda Atlantic time-series study site. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 1994, 41, 1013-1038.	1.4	217
8	Characterization of subsurface polycyclic aromatic hydrocarbons at the Deepwater Horizon site. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	217
9	A comparative overview of weathering intensity and HCO ₃ ^{âˆ’} flux in the world's major rivers with emphasis on the Changjiang, Huanghe, Zhujiang (Pearl) and Mississippi Rivers. <i>Continental Shelf Research</i> , 2008, 28, 1538-1549.	1.8	203
10	Seasonal variability in primary production and particle flux in the northwestern Sargasso Sea: U.S. JGOFS Bermuda Atlantic time-series study. <i>Deep-sea Research Part A, Oceanographic Research Papers</i> , 1992, 39, 1373-1391.	1.5	184
11	Antimony and arsenic biogeochemistry in the western Atlantic Ocean. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2001, 48, 2895-2915.	1.4	123
12	Characterization of oil components from the Deepwater Horizon oil spill in the Gulf of Mexico using fluorescence EEM and PARAFAC techniques. <i>Marine Chemistry</i> , 2013, 148, 10-21.	2.3	120
13	The United States' Next Generation of Atmospheric Composition and Coastal Ecosystem Measurements: NASA's Geostationary Coastal and Air Pollution Events (GEO-CAPE) Mission. <i>Bulletin of the American Meteorological Society</i> , 2012, 93, 1547-1566.	3.3	118
14	A review of water column processes influencing hypoxia in the northern Gulf of Mexico. <i>Estuaries and Coasts</i> , 2007, 30, 735-752.	2.2	110
15	A retrospective analysis of nutrients and phytoplankton productivity in the Mississippi River plume. <i>Continental Shelf Research</i> , 2008, 28, 1466-1475.	1.8	109
16	The Relationship between Primary Production and the Vertical Export of Particulate Organic Matter in a River-Impacted Coastal Ecosystem. <i>Estuaries and Coasts</i> , 1994, 17, 829.	1.7	107
17	Phytoplankton spectral absorption as influenced by community size structure and pigment composition. <i>Journal of Plankton Research</i> , 2003, 25, 35-61.	1.8	106
18	Increasing Mississippi river discharge throughout the 21st century influenced by changes in climate, land use, and atmospheric CO ₂ . <i>Geophysical Research Letters</i> , 2014, 41, 4978-4986.	4.0	96

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19	Carbon dynamics and community production in the Mississippi River plume. <i>Limnology and Oceanography</i> , 2012, 57, 1-17.	3.1	94
20	Long-term trends in evapotranspiration and runoff over the drainage basins of the Gulf of Mexico during 1901–2008. <i>Water Resources Research</i> , 2013, 49, 1988-2012.	4.2	90
21	Interrelationships among primary production, chlorophyll, and environmental conditions in frontal regions of the western Mediterranean Sea. <i>Deep-sea Research Part A, Oceanographic Research Papers</i> , 1988, 35, 793-810.	1.5	84
22	Use of hyperspectral remote sensing reflectance for detection and assessment of the harmful alga, <i>Karenia brevis</i> . <i>Applied Optics</i> , 2006, 45, 5414.	2.1	83
23	Satellite ocean color assessment of air-sea fluxes of CO ₂ in a river-dominated coastal margin. <i>Geophysical Research Letters</i> , 2006, 33, n/a-n/a.	4.0	81
24	The carbon dioxide system on the Mississippi River-dominated continental shelf in the northern Gulf of Mexico: 1. Distribution and air-sea CO ₂ flux. <i>Journal of Geophysical Research: Oceans</i> , 2015, 120, 1429-1445.	2.6	72
25	Modeling ocean circulation and biogeochemical variability in the Gulf of Mexico. <i>Biogeosciences</i> , 2013, 10, 7219-7234.	3.3	70
26	Spatial and Temporal Variations of Photosynthetic Parameters in Relation to Environmental Conditions in Coastal Waters of the Northern Gulf of Mexico. <i>Estuaries and Coasts</i> , 1994, 17, 779.	1.7	61
27	Distribution and controlling mechanisms of primary production on the Louisiana–Texas continental shelf. <i>Journal of Marine Systems</i> , 2000, 25, 179-207.	2.1	61
28	Pulsed, cross-shelf export of terrigenous dissolved organic carbon to the Gulf of Mexico. <i>Journal of Geophysical Research: Oceans</i> , 2014, 119, 1176-1194.	2.6	59
29	Hydrogen peroxide in the western Mediterranean Sea: a tracer for vertical advection. <i>Deep-sea Research Part A, Oceanographic Research Papers</i> , 1989, 36, 241-254.	1.5	57
30	Seasonal variability in air-sea fluxes of CO ₂ in a river-influenced coastal margin. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	54
31	Phytoplankton community structure in the river-influenced continental margin of the northern Gulf of Mexico. <i>Marine Ecology - Progress Series</i> , 2015, 521, 31-47.	1.9	54
32	Century-long increasing trend and variability of dissolved organic carbon export from the Mississippi River basin driven by natural and anthropogenic forcing. <i>Global Biogeochemical Cycles</i> , 2016, 30, 1288-1299.	4.9	53
33	A comparison of in situ and simulated in situ methods for estimating oceanic primary production. <i>Journal of Plankton Research</i> , 1992, 14, 201-221.	1.8	52
34	A novel theoretical approach to correct for pathlength amplification and variable sampling loading in measurements of particulate spectral absorption by the quantitative filter technique. <i>Journal of Plankton Research</i> , 2000, 22, 639-657.	1.8	52
35	Satellite detection of transient enhanced primary production in the western Mediterranean Sea. <i>Nature</i> , 1988, 335, 245-247.	27.8	50
36	Climate extremes dominating seasonal and interannual variations in carbon export from the Mississippi River Basin. <i>Global Biogeochemical Cycles</i> , 2015, 29, 1333-1347.	4.9	46

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37	Carbon cycling in the North American coastal ocean: a synthesis. <i>Biogeosciences</i> , 2019, 16, 1281-1304.	3.3	45
38	Long-Term Trajectory of Nitrogen Loading and Delivery From Mississippi River Basin to the Gulf of Mexico. <i>Global Biogeochemical Cycles</i> , 2020, 34, e2019GB006475.	4.9	44
39	Satellite estimation of coastal pCO ₂ and air-sea flux of carbon dioxide in the northern Gulf of Mexico. <i>Remote Sensing of Environment</i> , 2018, 207, 71-83.	11.0	42
40	Effects of a wind-driven cross-shelf large river plume on biological production and CO ₂ uptake on the Gulf of Mexico during spring. <i>Limnology and Oceanography</i> , 2013, 58, 1727-1735.	3.1	41
41	Primary production on the continental shelf off Cape Hatteras, North Carolina. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2002, 49, 4479-4509.	1.4	40
42	Vertical migration of the toxic dinoflagellate <i>Karenia brevis</i> and the impact on ocean optical properties. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	40
43	Large increase in dissolved inorganic carbon flux from the Mississippi River to Gulf of Mexico due to climatic and anthropogenic changes over the 21st century. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2015, 120, 724-736.	3.0	38
44	Variations in phytoplankton pigments, size structure and community composition related to wind forcing and water mass properties on the North Carolina inner shelf. <i>Continental Shelf Research</i> , 2003, 23, 1447-1464.	1.8	37
45	Analyses of Water Samples From the Deepwater Horizon Oil Spill: Documentation of the Subsurface Plume. <i>Geophysical Monograph Series</i> , 2011, , 77-82.	0.1	37
46	Increased extreme precipitation challenges nitrogen load management to the Gulf of Mexico. <i>Communications Earth & Environment</i> , 2020, 1, .	6.8	36
47	Modeling the response of primary production and sedimentation to variable nitrate loading in the Mississippi River plume. <i>Continental Shelf Research</i> , 2008, 28, 1451-1465.	1.8	33
48	Distributions of pigments and primary production in a Gulf Stream meander. <i>Journal of Geophysical Research</i> , 1993, 98, 14545-14560.	3.3	32
49	Impacts of a recurrent resuspension event and variable phytoplankton community composition on remote sensing reflectance. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	32
50	The stoichiometry of inorganic carbon and nutrient removal in the Mississippi River plume and adjacent continental shelf. <i>Biogeosciences</i> , 2012, 9, 2781-2792.	3.3	31
51	Physical-Biological Coupling in Southern Lake Michigan: Influence of Episodic Sediment Resuspension on Phytoplankton. <i>Aquatic Ecology</i> , 2003, 37, 393-408.	1.5	30
52	Spring phytoplankton photosynthesis, growth, and primary production and relationships to a recurrent coastal sediment plume and river inputs in southeastern Lake Michigan. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	30
53	Satellite Assessment of Bio-Optical Properties of Northern Gulf of Mexico Coastal Waters Following Hurricanes Katrina and Rita. <i>Sensors</i> , 2008, 8, 4135-4150.	3.8	30
54	Changing Dynamics of Dissolved Organic Matter Fluorescence in the Northern Gulf of Mexico Following the Deepwater Horizon Oil Spill. <i>Environmental Science & Technology</i> , 2016, 50, 4940-4950.	10.0	30

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55	The response of inorganic carbon distributions and dynamics to upwelling-favorable winds on the northern Gulf of Mexico during summer. <i>Continental Shelf Research</i> , 2015, 111, 211-222.	1.8	29
56	A review of carbon monitoring in wet carbon systems using remote sensing. <i>Environmental Research Letters</i> , 2022, 17, 025009.	5.2	29
57	Has the importance of photoautotrophic picoplankton been overestimated?. <i>Limnology and Oceanography</i> , 1994, 39, 432-438.	3.1	28
58	PHYTOPLANKTON PIGMENTS IN COASTAL LAKE MICHIGAN: DISTRIBUTIONS DURING THE SPRING ISOTHERMAL PERIOD AND RELATION WITH EPISODIC SEDIMENT RESUSPENSION1. <i>Journal of Phycology</i> , 2002, 38, 639-648.	2.3	25
59	Modeling <i>p</i><i>CO</i><sub>2</sub></i> variability in the Gulf of Mexico. <i>Biogeosciences</i> , 2016, 13, 4359-4377.	3.3	21
60	Effects of tropical cyclones on river chemistry: A case study of the lower Pearl River during Hurricanes Gustav and Ike. <i>Estuarine, Coastal and Shelf Science</i> , 2013, 129, 180-188.	2.1	19
61	Coastal Sediment Dynamics and River Discharge as Key Factors Influencing Coastal Ecosystem Productivity in Southeastern Lake Michigan. <i>Oceanography</i> , 2008, 21, 60-69.	1.0	18
62	MICROPHOTOMETRIC ASSESSMENT OF SPECTRAL ABSORPTION AND ITS POTENTIAL APPLICATION FOR CHARACTERIZATION OF HARMFUL ALGAL SPECIES. <i>Journal of Phycology</i> , 1999, 35, 1438-1446.	2.3	17
63	Photosynthesisâ€œirradiance parameters and community structure associated with coastal filaments and adjacent waters in the northern Arabian Sea. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2000, 47, 1249-1277.	1.4	17
64	How Can Present and Future Satellite Missions Support Scientific Studies that Address Ocean Acidification?. <i>Oceanography</i> , 2015, 25, 108-121.	1.0	16
65	Temporal variation and stoichiometric ratios of organic matter remineralization in bottom waters of the northern <sc>G</sc>ulf of <sc>M</sc>exico during late spring and summer. <i>Journal of Geophysical Research: Oceans</i> , 2015, 120, 8304-8326.	2.6	15
66	Inorganic 14C as a probe of growth rate-dependent variations in intracellular free amino acid and protein composition of NH+4 -limited continuous cultures of <i>Nannochloris atomis</i> Butcher. <i>Journal of Experimental Marine Biology and Ecology</i> , 1987, 106, 31-55.	1.5	14
67	Photophysiological and light absorption properties of phytoplankton communities in the riverâ€œdominated margin of the northern G ulf of M exico. <i>Journal of Geophysical Research: Oceans</i> , 2017, 122, 4922-4938.	2.6	12
68	Primary production in the Gulf of Mexico coastal waters using â€œremotely-sensedâ€œ trophic category approach. <i>Continental Shelf Research</i> , 1995, 15, 1355-1368.	1.8	11
69	Phytoplankton dynamics within a discrete water mass off Cape Hatteras, North Carolina: the Lagrangian experiment. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2002, 49, 4511-4531.	1.4	11
70	Instrumentation for the measurement of phytoplankton production1. <i>Limnology and Oceanography</i> , 1983, 28, 781-787.	3.1	9
71	Theoretical treatment of fluorescence detection by a dual-fiber-optic sensor with consideration of sampling variability and package effects associated with particles. <i>Applied Optics</i> , 1999, 38, 2524.	2.1	9
72	NIUST - Deepwater horizon oil spill response cruise. , 2010, , .		6

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73	Time Series Measurements of Chlorophyll Fluorescence in the Oceanic Bottom Boundary Layer with a Multisensor Fiber-Optic Fluorometer. <i>Journal of Atmospheric and Oceanic Technology</i> , 1997, 14, 889-896.	1.3	5
74	Chloropigment distribution and transport on the inner shelf off Duck, North Carolina. <i>Journal of Geophysical Research</i> , 2001, 106, 11581-11596.	3.3	5
75	Automated, in-water determination of colored dissolved organic material and phytoplankton community structure using the optical phytoplankton discriminator. <i>Proceedings of SPIE</i> , 2011, , .	0.8	5
76	A Centuryâ€™ Long Trajectory of Phosphorus Loading and Export From Mississippi River Basin to the Gulf of Mexico: Contributions of Multiple Environmental Changes. <i>Global Biogeochemical Cycles</i> , 2022, 36, .	4.9	3
77	Calculation of cell-specific growth rates: A clarification. <i>Limnology and Oceanography</i> , 1996, 41, 182-189.	3.1	2
78	Development of a suspended particulate matter (SPM) algorithm for the coastal zone mapping and imaging lidar (CZMIL). , 2010, , .		2
79	<title>Multisensor in-situ fiber optic fluorometer</title>. , 1994, , .		1
80	Underway Hyperspectral Bio-Optical Assessments of Phytoplankton Size Classes in the River-Influenced Northern Gulf of Mexico. <i>Remote Sensing</i> , 2021, 13, 3346.	4.0	1
81	<title>Comparison of measured inherent optical properties with estimates determined from reflectance in coastal waters off Cape Hatteras, North Carolina, USA</title>. , 1997, , .		0
82	Light absorption characteristics of individual phytoplankton cells from a natural community: examples from Lake Michigan during the winter period. <i>Verhandlungen Der Internationalen Vereinigung Fur Theoretische Und Angewandte Limnologie International Association of Theoretical and Applied Limnology</i> , 2000, 27, 1836-1840.	0.1	0
83	The central Gulf of Mexico Ocean Observing System: Development, resiliency and lessons learned. , 2009, , .		0