Edward A Laws

List of Publications by Year in descending order

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91 papers 6,487 citations

34 h-index 69250 77 g-index

93 all docs 93 docs citations

93 times ranked 5528 citing authors

#	Article	IF	CITATIONS
1	Elevated pCO2 changes community structure and function by affecting phytoplankton group-specific mortality. Marine Pollution Bulletin, 2022, 175, 113362.	5.0	5
2	Quasiâ€Antiphase Diel Patterns of Abundance and Cell Size/Biomass of Picophytoplankton in the Oligotrophic Ocean. Geophysical Research Letters, 2022, 49, .	4.0	8
3	Wetlands in China: Evolution, Carbon Sequestrations and Services, Threats, and Preservation/Restoration. Water (Switzerland), 2022, 14, 1152.	2.7	8
4	Holocene vegetation history and responses to climate and sea-level change in the Liaohe Delta, northeast China. Catena, 2022, 217, 106438.	5.0	3
5	Interactive effects of <scp>CO₂</scp> , temperature, irradiance, and nutrient limitation on the growth and physiology of the marine cyanobacterium <i>Synechococcus</i> (Cyanophyceae). Journal of Phycology, 2022, 58, 703-718.	2.3	5
6	Responses of phytoplankton communities to the effect of internal waveâ€powered upwelling. Limnology and Oceanography, 2021, 66, 1083-1098.	3.1	6
7	Spatial and temporal variations of satellite-derived phytoplankton size classes using a three-component model bridged with temperature in Marginal Seas of the Western Pacific Ocean. Progress in Oceanography, 2021, 191, 102511.	3.2	10
8	Blackfordia virginica blooms shift the trophic structure to smaller size plankton in subtropical shallow waters. Marine Pollution Bulletin, 2021, 163, 111990.	5.0	3
9	Temperature Dependence of Freshwater Phytoplankton Growth Rates and Zooplankton Grazing Rates. Water (Switzerland), 2021, 13, 1591.	2.7	7
10	Examining the size-specific photosynthesis-irradiance parameters and relationship with phytoplankton types in a subtropical marginal sea. Ecological Indicators, 2021, 130, 108094.	6.3	4
11	Temperature Affects the Time Required to Discern the Relationship between Primary Production and Export Production in the Ocean. Water (Switzerland), 2021, 13, 3085.	2.7	2
12	Interactive Effects of CO 2, Temperature, Irradiance, and Nutrient Limitation on the Growth and Physiology of the Marine Diatom Thalassiosira pseudonana (Coscinodiscophyceae). Journal of Phycology, 2020, 56, 1614-1624.	2.3	13
13	Negative Feedback by Vegetation on Soil Organic Matter Decomposition in a Coastal Wetland. Wetlands, 2020, 40, 2785-2797.	1.5	3
14	Phytoplankton community patterns in the Taiwan Strait match the characteristics of their realized niches. Progress in Oceanography, 2020, 186, 102366.	3.2	17
15	Plankton community responses to pulsed upwelling events in the southern Taiwan Strait. ICES Journal of Marine Science, 2019, 76, 2374-2388.	2.5	14
16	Stimulation of Heterotrophic and Autotrophic Metabolism in the Mixing Zone of the Kuroshio Current and Northern South China Sea: Implications for Export Production. Journal of Geophysical Research G: Biogeosciences, 2019, 124, 2645-2661.	3.0	20
17	Nutrient dynamics and their interaction with phytoplankton growth during autumn in Liaodong Bay, China. Continental Shelf Research, 2019, 186, 34-47.	1.8	17
18	Uncoupling of Seasonal Variations Between Phytoplankton Chlorophyll <i>a</i> and Production in the East China Sea. Journal of Geophysical Research G: Biogeosciences, 2019, 124, 2400-2415.	3.0	20

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19	Carbon burial records during the last ~40,000 years in sediments of the Liaohe Delta wetland, China. Estuarine, Coastal and Shelf Science, 2019, 226, 106291.	2.1	6
20	Responses of marine phytoplankton communities to environmental changes: New insights from a niche classification scheme. Water Research, 2019, 166, 115070.	11.3	20
21	The relationship between primary production and export production in the ocean: Effects of time lags and temporal variability. Deep-Sea Research Part I: Oceanographic Research Papers, 2019, 148, 100-107.	1.4	30
22	Coupling carbon and energy fluxes in the North Pacific Subtropical Gyre. Nature Communications, 2019, 10, 1895.	12.8	60
23	A new design of measuring marine primary productivity to support eco-geological survey. China Geology, 2019, 2, 112-113.	1.0	4
24	Mercury and selenium levels, and Se:Hg molar ratios in freshwater fish from South Louisiana. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2019, 54, 238-245.	1.7	10
25	Study on chemical hydrography, chlorophyll-a and primary productivity in Liaodong Bay, China. Estuarine, Coastal and Shelf Science, 2018, 202, 103-113.	2.1	8
26	Effects of increasing atmospheric CO2 on the marine phytoplankton and bacterial metabolism during a bloom: A coastal mesocosm study. Science of the Total Environment, 2018, 633, 618-629.	8.0	29
27	Realized niches explain spatial gradients in seasonal abundance of phytoplankton groups in the South China Sea. Progress in Oceanography, 2018, 162, 223-239.	3.2	57
28	Warming and eutrophication combine to restructure diatoms and dinoflagellates. Water Research, 2018, 128, 206-216.	11.3	181
29	The 1987–1989 Phytoplankton Bloom in Kaneohe Bay. Water (Switzerland), 2018, 10, 747.	2.7	1
30	In memory of Thomas Turpin Bannister (1930–2018). Photosynthesis Research, 2018, 138, 129-138.	2.9	3
31	Diel Patterns of Variable Fluorescence and Carbon Fixation of Picocyanobacteria Prochlorococcus-Dominated Phytoplankton in the South China Sea Basin. Frontiers in Microbiology, 2018, 9, 1589.	3.5	24
32	Anticyclonic Eddy Edge Effects on Phytoplankton Communities and Particle Export in the Northern South China Sea. Journal of Geophysical Research: Oceans, 2018, 123, 7632-7650.	2.6	27
33	Is there a difference of temperature sensitivity between marine phytoplankton and heterotrophs?. Limnology and Oceanography, 2017, 62, 806-817.	3.1	66
34	Nutrients and Phytoplankton in a Shallow, Hypereutrophic Urban Lake: Prospects for Restoration. Water (Switzerland), 2017, 9, 431.	2.7	9
35	Patchiness of phytoplankton and primary production in Liaodong Bay, China. PLoS ONE, 2017, 12, e0173067.	2.5	5
36	Photosynthetic parameters in the northern <scp>S</scp> outh <scp>C</scp> hina <scp>S</scp> ea in relation to phytoplankton community structure. Journal of Geophysical Research: Oceans, 2015, 120, 4187-4204.	2.6	29

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37	Estimating the compensation irradiance in the ocean: The importance of accounting for non-photosynthetic uptake of inorganic carbon. Deep-Sea Research Part I: Oceanographic Research Papers, 2014, 93, 35-40.	1.4	25
38	Large-scale management of common reed, Phragmites australis, for paper production: A case study from the Liaohe Delta, China. Ecological Engineering, 2014, 73, 760-769.	3.6	81
39	Does the 14C method estimate net photosynthesis? II. Implications from cyclostat studies of marine phytoplankton. Deep-Sea Research Part I: Oceanographic Research Papers, 2014, 91, 94-100.	1.4	12
40	Estimating microzooplankton grazing halfâ€saturation constants from dilution experiments with nonlinear feeding kinetics. Limnology and Oceanography, 2014, 59, 639-644.	3.1	16
41	Phosphateâ€limited growth of the marine diatom <i>Thalassiosira weissflogii</i> (Bacillariophyceae): evidence of nonâ€monod growth kinetics ¹ . Journal of Phycology, 2013, 49, 241-247.	2.3	16
42	Trace element remobilization following the resuspension of sediments under controlled redox conditions: City Park Lake, Baton Rouge, LA. Applied Geochemistry, 2013, 28, 91-99.	3.0	23
43	Does the 14C method estimate net photosynthesis? Implications from batch and continuous culture studies of marine phytoplankton. Deep-Sea Research Part I: Oceanographic Research Papers, 2013, 82, 1-9.	1.4	39
44	Evaluation of In Situ Phytoplankton Growth Rates: A Synthesis of Data from Varied Approaches. Annual Review of Marine Science, 2013, 5, 247-268.	11.6	83
45	Steady-state bioassay approach applied to phosphorus-limited continuous cultures: A growth study of the marine chlorophyte Dunaliella salina. Limnology and Oceanography, 2013, 58, 314-324.	3.1	13
46	Phosphate-limited growth and uptake kinetics of the marine prasinophyte Tetraselmis suecica (Kylin) Butcher. Aquaculture, 2011, 322-323, 117-121.	3.5	21
47	Simple equations to estimate ratios of new or export production to total production from satelliteâ€derived estimates of sea surface temperature and primary production. Limnology and Oceanography: Methods, 2011, 9, 593-601.	2.0	139
48	Quantitative Environmental Benchmarking in a Hydrologically Driven Hawaiian Coastal System. Marine Technology Society Journal, 2011, 45, 88-100.	0.4	6
49	PHOSPHATEâ€LIMITED GROWTH OF <i>PAVLOVA LUTHERI</i> (PRYMNESIOPHYCEAE) IN CONTINUOUS CULTURE: DETERMINATION OF GROWTHâ€RATEâ€LIMITING SUBSTRATE CONCENTRATIONS WITH A SENSITIVE BIOASSAY PROCEDURE Sup 1 Sup 2 Sup 3 Sup 3 Sup 3 Sup 3 Sup 3 Sup 3 Sup 3 Sup 3 Sup 3 Sup 4 Sup 4 Sup 4 Sup 4 Sup 4 Sup 4 Sup 5 Sup 4 Sup 5 Sup 4 Sup 6 Sup 4 Sup 6 Sup 4 Sup 6 Sup 4 Sup 7 Sup 7 Sup 7	2.3	24
50	Sequestration of metals through association with pyrite in subtidal sediments of the Nanpaishui Estuary on the Western Bank of the Bohai Sea, China. Marine Pollution Bulletin, 2011, 62, 934-941.	5.0	14
51	Trace metals in porewater of surface sediments and their bioavailability in Jiaozhou Bay, Qingdao, China. Environmental Earth Sciences, 2011, 64, 1641-1646.	2.7	10
52	Pyritization of trace metals in estuarine sediments and the controlling factors: a case in Jiaojiang Estuary of Zhejiang Province, China. Environmental Earth Sciences, 2010, 61, 973-982.	2.7	12
53	The 2007 water crisis in Wuxi, China: Analysis of the origin. Journal of Hazardous Materials, 2010, 182, 130-135.	12.4	256
54	Nutrient Dynamics in the Upwelling Area of Changjiang (Yangtze River) Estuary. Journal of Coastal Research, 2009, 253, 569-580.	0.3	33

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55	Toxic Elements in Aquatic Sediments: Distinguishing Natural Variability from Anthropogenic Effects. Water, Air, and Soil Pollution, 2009, 203, 179-191.	2.4	7
56	Food web structure and planktonic predator-prey relationships in two eutrophic European lakes: Stability constraints on carbon fluxes. Limnology and Oceanography, 2008, 53, 760-772.	3.1	6
57	Carbon isotopic fractionation by the marine diatom Phaeodactylum tricornutum under nutrient- and light-limited growth conditions. Geochimica Et Cosmochimica Acta, 2006, 70, 5323-5335.	3.9	51
58	Pelagic functional group modeling: Progress, challenges and prospects. Deep-Sea Research Part II: Topical Studies in Oceanography, 2006, 53, 459-512.	1.4	200
59	A new method for estimating growth rates of alkenone-producing haptophytes. Limnology and Oceanography: Methods, 2006, 4, 114-129.	2.0	23
60	Export flux and stability as regulators of community composition in pelagic marine biological communities: Implications for regime shifts. Progress in Oceanography, 2004, 60, 343-354.	3.2	30
61	Bicarbonate uptake by Southern Ocean phytoplankton. Global Biogeochemical Cycles, 2004, 18, n/a-n/a.	4.9	88
62	Metabolic balance of the open sea. Nature, 2003, 426, 32-32.	27.8	149
63	Phytoplankton and Their Role in Primary, New, and Export Production., 2003,, 99-121.		124
64	Sources of inorganic carbon for photosynthesis in a strain of <i>Phaeodactylum tricornutum</i> Limnology and Oceanography, 2002, 47, 1192-1197.	3.1	20
65	13C discrimination patterns in oceanic phytoplankton: likely influence of CO2 concentrating mechanisms, and implications for palaeoreconstructions. Functional Plant Biology, 2002, 29, 323.	2.1	95
66	Effects of biosynthesis and physiology on relative abundances and isotopic compositions of alkenones. Geochemistry, Geophysics, Geosystems, 2001, 2, n/a-n/a.	2.5	9
67	Controls on the molecular distribution and carbon isotopic composition of alkenones in certain haptophyte algae. Geochemistry, Geophysics, Geosystems, 2001, 2, n/a-n/a.	2.5	62
68	NUTRIENT-LIMITED GROWTH OF AUREOUMBRA LAGUNENSIS (PELAGOPHYCEAE), WITH IMPLICATIONS FOR ITS CAPABILITY TO OUTGROW OTHER PHYTOPLANKTON SPECIES IN PHOSPHATE-LIMITED ENVIRONMENTS. Journal of Phycology, 2001, 37, 500-508.	2.3	44
69	Carbon cycling in primary production bottle incubations: inferences from grazing experiments and photosynthetic studies using and in the Arabian Sea. Deep-Sea Research Part II: Topical Studies in Oceanography, 2000, 47, 1339-1352.	1.4	101
70	Temperature effects on export production in the open ocean. Global Biogeochemical Cycles, 2000, 14, 1231-1246.	4.9	731
71	Effect of Phytoplankton Cell Geometry on Carbon Isotopic Fractionation. Geochimica Et Cosmochimica Acta, 1998, 62, 69-77.	3.9	594
72	Sources of inorganic carbon for marine microalgal photosynthesis: A reassessment of δ ¹³ C data from batch culture studies of <i>Thalassiosira pseudonana</i> and <i>Emiliania huxleyi</i> Limnology and Oceanography, 1998, 43, 136-142.	3.1	31

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73	Effect of growth rate and CO ₂ concentration on carbon isotopic fractionation by the marine diatom <i>Phaeodactylum tricornutum</i> . Limnology and Oceanography, 1997, 42, 1552-1560.	3.1	170
74	DNA:ATP RATIOS IN MARINE MICROALGAE AND BACTERIA: IMPLICATIONS FOR GROWTH RATE ESTIMATES BASED ON RATES OF DNA SYNTHESIS1. Journal of Phycology, 1995, 31, 215-223.	2.3	13
75	considerations and experimental results. Geochimica Et Cosmochimica Acta, 1995, 59, 1131-1138.	3.9	679
76	Time-course development of 14C specificactivity of chlorophyll a, carbon, and proteins in algal cultures. Limnology and Oceanography, 1993, 38, 96-111.	3.1	10
77	Photosynthetic quotients, new production and net community production in the open ocean. Deep-sea Research Part A, Oceanographic Research Papers, 1991, 38, 143-167.	1.5	451
78	A test of the assumptions and predictions of recent microalgal growth models with the marine phytoplankter Pavlova lutheri. Limnology and Oceanography, 1990, 35, 583-596.	3.1	63
79	A microalgal growth model. Limnology and Oceanography, 1990, 35, 597-608.	3.1	61
80	Primary production in the deep blue sea. Deep-sea Research Part A, Oceanographic Research Papers, 1990, 37, 715-730.	1.5	65
81	Optimization of microalgal production in a shallow outdoor flume. Biotechnology and Bioengineering, 1988, 32, 140-147.	3.3	45
82	Phytoplankton population dynamics and the fate of production during the spring bloom in Auke Bay, Alaska1. Limnology and Oceanography, 1988, 33, 57-67.	3.1	52
83	Chemotactically-Active Feed Additive for Prawns (Macrobrachium rosenbergii). Progressive Fish-Culturist, 1985, 47, 59-61.	0.6	12
84	Effects of Polyculture and Manure Fertilization on Water Quality and Heterotrophic Productivity in Macrobrachium rosenbergii Ponds. Transactions of the American Fisheries Society, 1985, 114, 826-836.	1.4	11
85	GROWTH RATE VARIATION IN THE N:P REQUIREMENT RATIO OF PHYTOPLANKTON (sup > 1 < /sup > . Journal of Phycology, 1985, 21, 323-329.	2.3	63
86	VARIABILITY IN RATIOS OF PHYTOPLANKTON CARBON AND RNA TO ATP AND CHLOROPHYLL A IN BATCH AND CONTINUOUS CULTURES1,2. Journal of Phycology, 1983, 19, 439-445.	2.3	42
87	Light-limited growth of two strains of the marine diatom Phaeodactylum tricornutum Bohlin: Chemical composition, carbon partitioning and the diel periodicity of physiological processes. Journal of Experimental Marine Biology and Ecology, 1983, 68, 209-227.	1.5	85
88	ATP and chlorophyll a as estimators of phytoplankton carbon biomass1. Limnology and Oceanography, 1981, 26, 944-956.	3.1	72
89	Nutrient―and lightâ€limited growth of Thalassiosira fluviatilis in continuous culture, with implications for phytoplankton growth in the ocean1. Limnology and Oceanography, 1980, 25, 457-473.	3.1	453
90	STUDIES OF CARBON AND NITROGEN METABOLISM BY THREE MARINE PHYTOPLANKTON SPECIES IN NITRATE-LIMITED CONTINUOUS CULTURE1 ,2. Journal of Phycology, 1978, 14, 406-416.	2.3	104

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91	The Importance of Respiration Losses in Controlling the Size Distribution of Marine Phytoplankton. Ecology, 1975, 56, 419-426.	3.2	114