Michael R Landry

List of Publications by Citations

115 papers	7,101 citations	42 h-index	83 g-index
123 ext. papers	8,269 ext. citations	4.1 avg, IF	5.89 L-index

#	Paper	IF	Citations
115	A massive phytoplankton bloom induced by an ecosystem-scale iron fertilization experiment in the equatorial Pacific Ocean. *Nature*, **1996**, 383, 495 - 501	50.4	1199
114	Phytoplankton growth, microzooplankton grazing, and carbon cycling in marine systems. *Limnology and Oceanography*, **2004**, 49, 51-57	4.8	687
113	Synthesis of iron fertilization experiments: From the Iron Age in the Age of Enlightenment. *Journal of Geophysical Research*, **2005**, 110,		458
112	Iron and grazing constraints on primary production in the central equatorial Pacific: An EqPac synthesis. *Limnology and Oceanography*, **1997**, 42, 405-418	4.8	285
111	Zooplankton and the Ocean Carbon Cycle. *Annual Review of Marine Science*, **2017**, 9, 413-444	15.4	282
110	Mesoscale eddies drive increased silica export in the subtropical Pacific Ocean. *Science*, **2007**, 316, 1017-21	33.3	199
109	Microbial food web structure in the Arabian Sea: a US JGOFS study. *Deep-Sea Research Part II: Topical Studies in Oceanography*, **2000**, 47, 1387-1422	2.3	158
108	Mesozooplankton influences on the microbial food web: Direct and indirect trophic interactions in the oligotrophic open ocean. *Limnology and Oceanography*, **1999**, 44, 1370-1380	4.8	150
107	Quantification of zooplankton trophic position in the North Pacific Subtropical Gyre using stable nitrogen isotopes. *Limnology and Oceanography*, **2009**, 54, 50-61	4.8	146
106	Microzooplankton grazing in the central equatorial Pacific during February and August, 1992. *Deep-Sea Research Part II: Topical Studies in Oceanography*, **1995**, 42, 657-671	2.3	138
105	Spatial patterns in phytoplankton growth and microzooplankton grazing in the Arabian Sea during monsoon forcing. *Deep-Sea Research Part II: Topical Studies in Oceanography*, **1998**, 45, 2353-2368	2.3	131
104	Lagrangian studies of phytoplankton growth and grazing relationships in a coastal upwelling ecosystem off Southern California. *Progress in Oceanography*, **2009**, 83, 208-216	3.8	129
103	Microzooplankton production in the oceans. *ICES Journal of Marine Science*, **2004**, 61, 501-507	2.7	127
102	Flow cytometric analysis of marine bacteria with hoechst 33342. *Applied and Environmental Microbiology*, **1993**, 59, 905-11	4.8	122
101	Active export of carbon and nitrogen at Station ALOHA by diel migrant zooplankton. *Deep-Sea Research Part II: Topical Studies in Oceanography*, **2001**, 48, 2083-2103	2.3	110
100	Does warming enhance the effect of microzooplankton grazing on marine phytoplankton in the ocean?. *Limnology and Oceanography*, **2012**, 57, 519-526	4.8	97
99	Diatoms in the desert: Plankton community response to a mesoscale eddy in the subtropical North Pacific. *Deep-Sea Research Part II: Topical Studies in Oceanography*, **2008**, 55, 1321-1333	2.3	96

98	Depth-stratified phytoplankton dynamics in Cyclone Opal, a subtropical mesoscale eddy. *Deep-Sea Research Part II: Topical Studies in Oceanography*, **2008**, 55, 1348-1359	2.3	88
97	Mesoscale ocean fronts enhance carbon export due to gravitational sinking and subduction. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, 1252-1257	11.5	85
96	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	2.3	75
95	Close coupling between phytoplankton growth and microzooplankton grazing in the western South China Sea. *Limnology and Oceanography*, **2009**, 54, 1084-1097	4.8	74
94	Phytoplankton growth, grazing and production balances in the HNLC equatorial Pacific. *Deep-Sea Research Part II: Topical Studies in Oceanography*, **2011**, 58, 524-535	2.3	73
93	Feeding selection of heterotrophic marine nanoflagellates based on the surface hydrophobicity of their picoplankton prey. *Limnology and Oceanography*, **1999**, 44, 1917-1927	4.8	72
92	Co-limitation of diatoms by iron and silicic acid in the equatorial Pacific. *Deep-Sea Research Part II: Topical Studies in Oceanography*, **2011**, 58, 493-511	2.3	69
91	Pigment specific growth and grazing rates of phytoplankton in the central equatorial Pacific. *Limnology and Oceanography*, **1997**, 42, 289-298	4.8	67
90	Seasonal dynamics of phytoplankton in the Antarctic Polar Front region at 170°W. *Deep-Sea Research Part II: Topical Studies in Oceanography*, **2002**, 49, 1843-1865	2.3	67
89	Microbial community structure and variability in the tropical Pacific. *Deep-Sea Research Part II: Topical Studies in Oceanography*, **2002**, 49, 2669-2693	2.3	67
88	Seasonal patterns of mesozooplankton abundance and biomass at Station ALOHA. *Deep-Sea Research Part II: Topical Studies in Oceanography*, **2001**, 48, 2037-2061	2.3	65
87	Responses of Phytoplankton Communities to Environmental Variability in the East China Sea. *Ecosystems*, **2016**, 19, 832-849	3.9	62
86	Modeling phytoplankton growth rates and chlorophyll to carbon ratios in California coastal and pelagic ecosystems. *Journal of Geophysical Research*, **2010**, 115,		61
85	Isotopic invisibility of protozoan trophic steps in marine food webs. *Limnology and Oceanography*, **2014**, 59, 1590-1598	4.8	60
84	Picophytoplankton dynamics and production in the Arabian Sea during the 1995 Southwest Monsoon. *Deep-Sea Research Part II: Topical Studies in Oceanography*, **1999**, 46, 1745-1768	2.3	58
83	Pelagic community responses to a deep-water front in the California Current Ecosystem: overview of the A-Front Study. *Journal of Plankton Research*, **2012**, 34, 739-748	2.2	57
82	Mesozooplankton biomass and grazing responses to Cyclone Opal, a subtropical mesoscale eddy. *Deep-Sea Research Part II: Topical Studies in Oceanography*, **2008**, 55, 1378-1388	2.3	52
81	Biomass, size structure and depth distributions of the microbial community in the eastern equatorial Pacific. *Deep-Sea Research Part II: Topical Studies in Oceanography*, **2011**, 58, 342-357	2.3	47

80	Phytoplankton growth and microzooplankton grazing in high-nutrient, low-chlorophyll waters of the equatorial Pacific: Community and taxon-specific rate assessments from pigment and flow cytometric analyses. *Journal of Geophysical Research*, **2003**, 108,		47
79	Spatially-resolved taxon-specific phytoplankton production and grazing dynamics in relation to iron distributions in the Equatorial Pacific between 110 and 140°W. *Deep-Sea Research Part II: Topical Studies in Oceanography*, **2011**, 58, 358-377	2.3	46
78	Trophic cycling and carbon export relationships in the California Current Ecosystem. *Limnology and Oceanography*, **2011**, 56, 1866-1878	4.8	44
77	Environmental perturbation effects on baseline δ15N values and zooplankton trophic flexibility in the southern California Current Ecosystem. *Limnology and Oceanography*, **2013**, 58, 624-634	4.8	43
76	Enhanced silica ballasting from iron stress sustains carbon export in a frontal zone within the California Current. *Journal of Geophysical Research: Oceans*, **2015**, 120, 4654-4669	3.3	42
75	Integrating classical and microbial food web concepts: evolving views from the open-ocean tropical Pacific. *Hydrobiologia*, **2002**, 480, 29-39	2.4	42
74	Primary production, new production, and growth rate in the equatorial Pacific: Changes from mesotrophic to oligotrophic regime. *Journal of Geophysical Research*, **2003**, 108,		42
73	The role of Synechococcus in vertical flux in the Costa Rica upwelling dome. *Progress in Oceanography*, **2013**, 112-113, 49-59	3.8	38
72	Grazer and viral impacts on microbial growth and mortality in the southern California Current Ecosystem. *Journal of Plankton Research*, **2015**, 37, 320-336	2.2	37
71	Microbial community abundance and biomass along a 180°transect in the equatorial Pacific during an El Niño-Southern Oscillation cold phase. *Journal of Geophysical Research*, **2003**, 108,		35
70	Density estimation of plankton size spectra: a reanalysis of IronEx II data. *Journal of Plankton Research*, **2010**, 32, 1167-1184	2.2	34
69	Variability in diatom contributions to biomass, organic matter production and export across a frontal gradient in the California Current Ecosystem. *Journal of Geophysical Research: Oceans*, **2015**, 120, 1032-1047	3.3	33
68	Temporal dynamics of phytoplankton and heterotrophic protists at station ALOHA. *Deep-Sea Research Part II: Topical Studies in Oceanography*, **2013**, 93, 44-57	2.3	32
67	Ecological Transitions in a Coastal Upwelling Ecosystem. *Oceanography*, **2013**, 26, 210-219	2.3	30
66	Alanine δ15N trophic fractionation in heterotrophic protists. *Limnology and Oceanography*, **2017**, 62, 2308-2322	4.8	29
65	Nanoplankton mixotrophy in the eastern equatorial Pacific. *Deep-Sea Research Part II: Topical Studies in Oceanography*, **2011**, 58, 378-386	2.3	29
64	A 9-year increasing trend in mesozooplankton biomass at the Hawaii Ocean Time-series Station ALOHA. *ICES Journal of Marine Science*, **2004**, 61, 457-463	2.7	29
63	EBENE: A JGOFS investigation of plankton variability and trophic interactions in the equatorial Pacific (180°). *Journal of Geophysical Research*, **2003**, 108,		29

62	Diel dynamics of chlorophylls in high-nutrient, low-chlorophyll waters of the equatorial Pacific (180°): Interactions of growth, grazing, physiological responses, and mixing. *Journal of Geophysical Research*, **2003**, 108,		29
61	The biological pump in the Costa Rica Dome: an open-ocean upwelling system with high new production and low export. *Journal of Plankton Research*, **2016**, 38, 348-365	2.2	27
60	Phytoplankton production and grazing balances in the Costa Rica Dome. *Journal of Plankton Research*, **2016**, 38, 366-379	2.2	26
59	Phytoplankton production and taxon-specific growth rates in the Costa Rica Dome. *Journal of Plankton Research*, **2016**, 38, 199-215	2.2	25
58	Mesozooplankton biomass and grazing in the Costa Rica Dome: amplifying variability through the plankton food web. *Journal of Plankton Research*, **2016**, 38, 317-330	2.2	25
57	Broad scale patterns in mesozooplankton biomass and grazing in the eastern equatorial Pacific. *Deep-Sea Research Part II: Topical Studies in Oceanography*, **2011**, 58, 387-399	2.3	25
56	Spatial patterns of nitrogen uptake and phytoplankton in the equatorial upwelling zone (110°W-140°W) during 2004 and 2005. *Deep-Sea Research Part II: Topical Studies in Oceanography*, **2011**, 58, 417-433	2.3	25
55	Picoplankton dynamics during contrasting seasonal oceanographic conditions at a coastal upwelling station off Northern Baja California, Mexico. *Journal of Plankton Research*, **2010**, 32, 539-557	2.2	25
54	The effects of biogenic silica detritus, zooplankton grazing, and diatom size structure on silicon cycling in the euphotic zone of the eastern equatorial Pacific. *Limnology and Oceanography*, **2010**, 55, 2608-2622	4.8	25
53	Microbial eukaryotic distributions and diversity patterns in a deep-sea methane seep ecosystem. *Environmental Microbiology*, **2016**, 18, 3022-43	5.2	25
52	Laser fluorescence analysis of phytoplankton across a frontal zone in the California Current ecosystem. *Journal of Plankton Research*, **2012**, 34, 761-777	2.2	24
51	High contribution of Rhizaria (Radiolaria) to vertical export in the California Current Ecosystem revealed by DNA metabarcoding. *ISME Journal*, **2019**, 13, 964-976	11.9	24
50	Temporal and spatial patterns of microbial community biomass and composition in the Southern California Current Ecosystem. *Deep-Sea Research Part II: Topical Studies in Oceanography*, **2015**, 112, 117-128	2.3	23
49	Contribution of picophytoplankton to carbon export in the equatorial Pacific: A reassessment of food web flux inferences from inverse models. *Limnology and Oceanography*, **2010**, 55, 2669-2685	4.8	23
48	Plankton dynamics and biogeochemical fluxes in the Costa Rica Dome: introduction to the CRD Flux and Zinc Experiments. *Journal of Plankton Research*, **2016**, 38, 167-182	2.2	22
47	Do inverse ecosystem models accurately reconstruct plankton trophic flows? Comparing two solution methods using field data from the California Current. *Journal of Marine Systems*, **2012**, 91, 20-33	2.7	22
46	Protistan microzooplankton and the trophic position of tuna: quantifying the trophic link between micro- and mesozooplankton in marine foodwebs. *ICES Journal of Marine Science*, **2017**, 74, 1885-1892	2.7	21
45	Patterns of microbial community biomass, composition and HPLC diagnostic pigments in the Costa Rica upwelling dome. *Journal of Plankton Research*, **2016**, 38, 183-198	2.2	20

44	Fine spatial structure of genetically distinct picocyanobacterial populations across environmental gradients in the Costa Rica Dome. *Limnology and Oceanography*, **2014**, 59, 705-723	4.8	19
43	Preferential depletion of zinc within Costa Rica upwelling dome creates conditions for zinc co-limitation of primary production. *Journal of Plankton Research*, **2016**, 38, 244-255	2.2	17
42	Microbial absorption and backscattering coefficients from in situ and POLDER satellite data during an El Niño Southern Oscillation cold phase in the equatorial Pacific (180°). *Journal of Geophysical Research*, **2003**, 108,		15
41	The Carbon:234Thorium ratios of sinking particles in the California current ecosystem 1: relationships with plankton ecosystem dynamics. *Marine Chemistry*, **2019**, 212, 1-15	3.7	14
40	Nitrogen and Isotope Flows Through the Costa Rica Dome Upwelling Ecosystem: The Crucial Mesozooplankton Role in Export Flux. *Global Biogeochemical Cycles*, **2018**, 32, 1815-1832	5.9	14
39	The unique ecological role of pyrosomes in the Eastern Tropical Pacific. *Limnology and Oceanography*, **2019**, 64, 728-743	4.8	13
38	The Importance of Mesozooplankton Diel Vertical Migration for Sustaining a Mesopelagic Food Web. *Frontiers in Marine Science*, **2019**, 6,	4.5	13
37	Microbial community composition and growth rates in the NW Pacific during spring 2002. *Geochemistry, Geophysics, Geosystems*, **2005**, 6, n/a-n/a	3.6	13
36	Particulate flux in the water column overlying Santa Monica Basin. *Progress in Oceanography*, **1992**, 30, 167-195	3.8	13
35	Net biogenic silica production and the contribution of diatoms to new production and organic matter export in the Costa Rica Dome ecosystem. *Journal of Plankton Research*, **2016**, 38, 216-229	2.2	12
34	Phytoplankton growth and microzooplankton grazing dynamics across vertical environmental gradients determined by transplant dilution experiments. *Journal of Plankton Research*, **2016**, 38, 271-289	2.2	11
33	Environmental drivers of mesozooplankton biomass variability in the North Pacific Subtropical Gyre. *Journal of Geophysical Research G: Biogeosciences*, **2016**, 121, 3131-3143	3.7	11
32	Climate sensitivities and uncertainties in food-web pathways supporting larval bluefin tuna in subtropical oligotrophic oceans. *ICES Journal of Marine Science*, **2019**, 76, 359-369	2.7	11
31	Microplankton trace element contents: implications for mineral limitation of mesozooplankton in an HNLC area. *Journal of Plankton Research*, **2016**, 38, 256-270	2.2	9
30	Recovering growth and grazing rates from nonlinear dilution experiments. *Limnology and Oceanography*, **2017**, 62, 1825-1835	4.8	8
29	Environmental Effects on Mesozooplankton Size Structure and Export Flux at Station ALOHA, North Pacific Subtropical Gyre. *Global Biogeochemical Cycles*, **2018**, 32, 289-305	5.9	7
28	Biomass and composition of protistan grazers and heterotrophic bacteria in the Costa Rica Dome during summer 2010. *Journal of Plankton Research*, **2016**, 38, 230-243	2.2	7
27	Quantifying spatiotemporal variability in zooplankton dynamics in the Gulf of Mexico with a physical-biogeochemical model. *Biogeosciences*, **2020**, 17, 3385-3407	4.6	6

26	Biological response of Costa Rica Dome phytoplankton to Light, Silicic acid and Trace metals. *Journal of Plankton Research*, **2016**, 38, 290-304	2.2	5
25	Grazing Processes and Secondary Production in the Arabian Sea: A Simple Food Web Synthesis with Measurement Constraints. *Geophysical Monograph Series*, **2009**, 133-146	1.1	5
24	Factors affecting Fe and Zn contents of mesozooplankton from the Costa Rica Dome. *Journal of Plankton Research*, **2016**, 38, 331-347	2.2	5
23	Community Trait Distribution Across Environmental Gradients. *Ecosystems*, **2019**, 22, 968-980	3.9	5
22	Lagrangian Studies of Marine Production: A Multimethod Assessment of Productivity Relationships in the California Current Ecosystem Upwelling Region. *Journal of Geophysical Research: Oceans*, **2020**, 125, e2019JC015984	3.3	4
21	Errors associated with compound-specific δ15N analysis of amino acids in preserved fish samples purified by high-pressure liquid chromatography. *Limnology and Oceanography: Methods*, **2020**, 18, 259-270	2.6	4
20	Technical comment on Boersma et al. (2016) Temperature driven changes in the diet preference of omnivorous copepods: no more meat when it's hot? Ecology Letters, 19, 45-53. *Ecology Letters*, **2016**, 19, 1389-1391	10	4
19	A slide preparation technique for light microscopy analysis of ciliates preserved in acid Lugol's fixative. *Limnology and Oceanography: Methods*, **2014**, 12, 54-62	2.6	4
18	A Cryptic Marine Ciliate Feeds on Progametes of Noctiluca scintillans. *Protist*, **2017**, 168, 1-11	2.5	4
17	Estimating size-dependent growth and grazing rates and their associated errors using the dilution method. *Limnology and Oceanography: Methods*, **2012**, 10, 868-881	2.6	4
16	Mesozooplankton biomass, grazing and trophic structure in the bluefin tuna spawning area of the oceanic Gulf of Mexico. *Journal of Plankton Research*,	2.2	4
15	Grazing control and iron limitation of primary production in the Arabian Sea: Implications for anticipated shifts in Southwest Monsoon intensity. *Deep-Sea Research Part II: Topical Studies in Oceanography*, **2020**, 179, 104687	2.3	3
14	Taxon-specific phytoplankton growth, nutrient utilization and light limitation in the oligotrophic Gulf of Mexico. *Journal of Plankton Research*,	2.2	3
13	Lateral advection supports nitrogen export in the oligotrophic open-ocean Gulf of Mexico. *Nature Communications*, **2021**, 12, 3325	17.4	3
12	Phytoplankton community composition and biomass in the oligotrophic Gulf of Mexico. *Journal of Plankton Research*,	2.2	2
11	Microbial food web dynamics in the oceanic Gulf of Mexico. *Journal of Plankton Research*,	2.2	2
10	Plankton food webs in the oligotrophic Gulf of Mexico spawning grounds of Atlantic bluefin tuna. *Journal of Plankton Research*,	2.2	2
9	Sinking carbon, nitrogen, and pigment flux within and beneath the euphotic zone in the oligotrophic, open-ocean Gulf of Mexico. *Journal of Plankton Research*,	2.2	2

8	Low temperature sensitivity of picophytoplankton P□□B ratios and growth rates across a natural 10□C temperature gradient in the oligotrophic Indian Ocean. *Limnology and Oceanography Letters*,	7.9	1
7	Predicting primary production in the southern California Current Ecosystem from chlorophyll, nutrient concentrations, and irradiance		1
6	The Importance of Mesozooplankton Diel Vertical Migration for Sustaining a Mesopelagic Food Web		1
5	Active prey selection in developing larvae of Atlantic bluefin tuna (Thunnus thynnus) in spawning grounds of the Gulf of Mexico. *Journal of Plankton Research*,	2.2	1
4	Relating sinking and suspended microbial communities in the California Current Ecosystem: digestion resistance and the contributions of phytoplankton taxa to export. *Environmental Microbiology*, **2021**, 23, 6734-6748	5.2	1
3	Microbial communities associated with sinking particles across an environmental gradient from coastal upwelling to the oligotrophic ocean. *Deep-Sea Research Part I: Oceanographic Research Papers*, **2022**, 179, 103668	2.5	0
2	Dynamic change in an ocean desert: Microbial diversity and trophic transfer along the 110 □E meridional in the Indian Ocean. *Deep-Sea Research Part II: Topical Studies in Oceanography*, **2022**, 105097	2.3	0
1	IMBIZO II: JGOFS MEETS GLOBEC IN CRETE. *Limnology and Oceanography Bulletin*, **2010**, 19, 82-83	0.9	