Ricardo M Letelier

List of Publications by Year
in descending order

105	11,548	46918 47	31759 101
papers	citations	h-index	g-index

117	117	117	9501
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Climate-driven trends in contemporary ocean productivity. Nature, 2006, 444, 752-755.	13.7	1,873
2	The role of nitrogen fixation in biogeochemical cycling in the subtropical North Pacific Ocean. Nature, 1997, 388, 533-538.	13.7	876
3	Dinitrogen fixation in the world's oceans. Biogeochemistry, 2002, 57, 47-98.	1.7	586
4	An overview of MODIS capabilities for ocean science observations. IEEE Transactions on Geoscience and Remote Sensing, 1998, 36, 1250-1265.	2.7	433
5	Seasonal and interannual variability in primary production and particle flux at Station ALOHA. Deep-Sea Research Part II: Topical Studies in Oceanography, 1996, 43, 539-568.	0.6	367
6	Microbial oceanography of anoxic oxygen minimum zones. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 15996-16003.	3.3	365
7	Database of diazotrophs in global ocean: abundance, biomass and nitrogen fixation rates. Earth System Science Data, 2012, 4, 47-73.	3.7	315
8	Temporal variability of phytoplankton community structure based on pigment analysis. Limnology and Oceanography, 1993, 38, 1420-1437.	1.6	310
9	Long-term changes in plankton community structure and productivity in the North Pacific Subtropical Gyre: The domain shift hypothesis. Deep-Sea Research Part II: Topical Studies in Oceanography, 2001, 48, 1449-1470.	0.6	297
10	Ecological nitrogen-to-phosphorus stoichiometry at station ALOHA. Deep-Sea Research Part II: Topical Studies in Oceanography, 2001, 48, 1529-1566.	0.6	274
11	Ecosystem changes in the North Pacific subtropical gyre attributed to the 1991â€“92 El NiÃ±o. Nature, 1995, 373, 230-234.	13.7	269
12	Predictable and efficient carbon sequestration in the North Pacific Ocean supported by symbiotic nitrogen fixation. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 1842-1849.	3.3	258
13	Light driven seasonal patterns of chlorophyll and nitrate in the lower euphotic zone of the North Pacific Subtropical Gyre. Limnology and Oceanography, 2004, 49, 508-519.	1.6	246
14	An analysis of chlorophyll fluorescence algorithms for the moderate resolution imaging spectrometer (MODIS). Remote Sensing of Environment, 1996, 58, 215-223.	4.6	227
15	The role of dissolved organic matter release in the productivity of the oligotrophic North Pacific Ocean. Limnology and Oceanography, 1998, 43, 1270-1286.	1.6	203
16	Physical forcing of nitrogen fixation and diazotroph community structure in the North Pacific subtropical gyre. Global Biogeochemical Cycles, 2009, 23, .	1.9	200
17	Role of Trichodesmium spp. in the productivity of the subtropical North Pacific Ocean. Marine Ecology - Progress Series, 1996, 133, 263-273.	0.9	188
18	Simulating the global distribution of nitrogen isotopes in the ocean. Global Biogeochemical Cycles, 2010, 24, .	1.9	186

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19	Summer phytoplankton blooms in the oligotrophic North Pacific Subtropical Gyre: Historical perspective and recent observations. Progress in Oceanography, 2008, 76, 2-38.	1.5	181
20	Trichodesmium Blooms and New Nitrogen in the North Pacific Gyre. , 1992, , 219-237.		148
21	Nitrogen fixation in an anticyclonic eddy in the oligotrophic North Pacific Ocean. ISME Journal, 2008, 2, 663-676.	4.4	137
22	Light scattering by random shaped particles and consequences on measuring suspended sediments by laser diffraction. Journal of Geophysical Research, 2008, 113, .	3.3	132
23	Seasonal and interannual variations in photosynthetic carbon assimilation at Station. Deep-Sea Research Part II: Topical Studies in Oceanography, 1996, 43, 467-490.	0.6	125
24	Trichodesmium spp. physiology and nutrient fluxes in the North Pacific subtropical gyre. Aquatic Microbial Ecology, 1998, 15, 265-276.	0.9	119
25	Satellite sensor requirements for monitoring essential biodiversity variables of coastal ecosystems. Ecological Applications, 2018, 28, 749-760.	1.8	116
26	Temporal variability of nitrogen fixation and particulate nitrogen export at Station ALOHA. Limnology and Oceanography, 2017, 62, 200-216.	1.6	110
27	Role of late winter mesoscale events in the biogeochemical variability of the upper water column of the North Pacific Subtropical Gyre. Journal of Geophysical Research, 2000, 105, 28723-28739.	3.3	109
28	Nitrogen fixation-enhanced carbon sequestration in low nitrate, low chlorophyll seascapes. Marine Ecology - Progress Series, 2008, 364, 257-268.	0.9	109
29	Seascapes as a new vernacular for pelagic ocean monitoring, management and conservation. ICES Journal of Marine Science, 2016, 73, 1839-1850.	1.2	100
30	Seasonal variability in the phytoplankton community of the North Pacific Subtropical Gyre. Global Biogeochemical Cycles, 1995, 9, 605-620.	1.9	98
31	Diversity and activity of nitrogenâ€fixing communities across ocean basins. Limnology and Oceanography, 2017, 62, 1895-1909.	1.6	97
32	Seasonal variability of turbid river plumes off central Chile based on high-resolution MODIS imagery. Remote Sensing of Environment, 2012, 123, 220-233.	4.6	93
33	Flexible elemental stoichiometry in Trichodesmium spp. and its ecological implications. Limnology and Oceanography, 2006, 51, 1777-1790.	1.6	89
34	Satellite-based prediction of pCO2 in coastal waters of the eastern North Pacific. Progress in Oceanography, 2012, 103, 1-15.	1.5	88
35	Does eddyâ€eddy interaction control surface phytoplankton distribution and carbon export in the North Pacific Subtropical Gyre?. Journal of Geophysical Research, 2012, 117, .	3.3	80
36	The spring bloom in the Antarctic Polar Frontal Zone as observed from a mesoscale array of bio-optical sensors. Deep-Sea Research Part II: Topical Studies in Oceanography, 2000, 47, 3285-3314.	0.6	74

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37	Impact of climate forcing on ecosystem processes in the North Pacific Subtropical Gyre. Journal of Geophysical Research, 2007, 112, .	3.3	69
38	Influence of Rossby waves on nutrient dynamics and the plankton community structure in the North Pacific subtropical gyre. Journal of Geophysical Research, 2004, 109, .	3.3	68
39	Phosphonate metabolism by Trichodesmium IMS101 and the production of greenhouse gases. Limnology and Oceanography, 2010, 55, 1768-1778.	1.6	61
40	Coupling carbon and energy fluxes in the North Pacific Subtropical Gyre. Nature Communications, 2019, 10, 1895.	5.8	60
41	ASSESSING PRIMARY PRODUCTION VARIABILITY IN THE NORTH PACIFIC SUBTROPICAL GYRE: A COMPARISON OF FAST REPETITION RATE FLUOROMETRY AND 14C MEASUREMENTS1. Journal of Phycology, 2006, 42, 51-60.	1.0	59
42	What factors are driving summer phytoplankton blooms in the North Pacific Subtropical Gyre?. Journal of Geophysical Research, 2007, 112, .	3.3	58
43	Hierarchical and dynamic seascapes: A quantitative framework for scaling pelagic biogeochemistry and ecology. Progress in Oceanography, 2014, 120, 291-304.	1.5	58
44	Decorrelation scales of chlorophyll as observed from bio-optical drifters in the California Current. Deep-Sea Research Part II: Topical Studies in Oceanography, 1998, 45, 1639-1667.	0.6	55
45	A deterministic model for N2 fixation at stn. ALOHA in the subtropical North Pacific Ocean. Deep-Sea Research Part II: Topical Studies in Oceanography, 2001, 49, 149-174.	0.6	54
46	Summer surface waters in the Gulf of California: Prime habitat for biological N2fixation. Global Biogeochemical Cycles, 2007, 21, n/a-n/a.	1.9	53
47	Satelliteâ€derived variability in chlorophyll, wind stress, sea surface height, and temperature in the northern California Current System. Journal of Geophysical Research, 2008, 113, .	3.3	52
48	Ocean Time Series Observations of Changing Marine Ecosystems: An Era of Integration, Synthesis, and Societal Applications. Frontiers in Marine Science, 2019, 6, .	1.2	50
49	Validation of Terra-MODIS phytoplankton chlorophyll fluorescence line height I Initial airborne lidar results. Applied Optics, 2003, 42, 2767.	2.1	48
50	Phenology of particle size distributions and primary productivity in the <scp>N</scp>orth <scp>P</scp>acific subtropical gyre (<scp>S</scp>tation <scp>ALOHA</scp>). Journal of Geophysical Research: Oceans, 2015, 120, 7381-7399.	1.0	45
51	Experimental assessment of the effects of shade on an intertidal kelp: Do phytoplankton blooms inhibit growth of open coast macroalgae?. Limnology and Oceanography, 2009, 54, 276-288.	1.6	44
52	Diversity trumps acidification: Lack of evidence for carbon dioxide enhancement of Trichodesmium community nitrogen or carbon fixation at Station ALOHA. Limnology and Oceanography, 2014, 59, 645-659.	1.6	44
53	Climate-driven oscillation of phosphorus and iron limitation in the North Pacific Subtropical Gyre. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 12720-12728.	3.3	44
54	The MAREDAT global database of high performance liquid chromatography marine pigment measurements. Earth System Science Data, 2013, 5, 109-123.	3.7	44

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55	Microbiological oceanography in the region west of the Antarctic Peninsula: Microbial dynamics, nitrogen cycle and carbon flux. Antarctic Research Series, 1996, , 303-332.	0.2	43
56	A Framework for a Marine Biodiversity Observing Network Within Changing Continental Shelf Seascapes. Oceanography, 2014, 27, 18-23.	0.5	43
57	Size-dependent photosynthetic variability in the North Pacific Subtropical Gyre. Marine Ecology - Progress Series, 2011, 440, 27-40.	0.9	43
58	An Open Ocean Trial of Controlled Upwelling Using Wave Pump Technology. Journal of Atmospheric and Oceanic Technology, 2010, 27, 385-396.	0.5	42
59	Autonomous observations of in vivo â€˜fluorescence and particle backscatteringâ€˜in an oceanic oxygen minimum zone. Optics Express, 2009, 17, 21992.	1.7	37
60	Chlorophyll natural fluorescence response to upwelling events in the Southern Ocean. Geophysical Research Letters, 1997, 24, 409-412.	1.5	36
61	Phosphonate metabolism by Trichodesmium IMS101 and the production of greenhouse gases. Limnology and Oceanography, 2010, 55, 1755-1767.	1.6	36
62	Experimental assessment of diazotroph responses to elevated seawater pCO₂ in the North Pacific Subtropical Gyre. Global Biogeochemical Cycles, 2014, 28, 601-616.	1.9	36
63	Productivity diagnosed from the diel cycle of particulate carbon in the North Pacific Subtropical Gyre. Geophysical Research Letters, 2017, 44, 3752-3760.	1.5	36
64	The Nitrogen Cycle in the North Pacific Trades Biome. , 2008, , 705-769.		35
65	Particle distributions and dynamics in the euphotic zone of the <scp>N</scp>orth <scp>P</scp>acific <scp>S</scp>ubtropical <scp>G</scp>yre. Journal of Geophysical Research: Oceans, 2015, 120, 3229-3247.	1.0	35
66	Light absorption by phytoplankton in the North Pacific Subtropical Gyre. Limnology and Oceanography, 2017, 62, 1526-1540.	1.6	35
67	KÄ«lauea lava fuels phytoplankton bloom in the North Pacific Ocean. Science, 2019, 365, 1040-1044.	6.0	35
68	Spatial and spectral resolution considerations for imaging coastal waters. Proceedings of SPIE, 2007, , .	0.8	33
69	Addition of inorganic or organic phosphorus enhances nitrogen and carbon fixation in the Âoligotrophic North Pacific. Marine Ecology - Progress Series, 2011, 432, 17-29.	0.9	33
70	Modeling carbohydrate ballasting by Trichodesmium spp.. Marine Ecology - Progress Series, 2006, 323, 35-45.	0.9	33
71	The Newport line off Oregon â€“ Studies in the North East Pacific. Progress in Oceanography, 2007, 75, 126-160.	1.5	32
72	Seasonal-to-decadal scale variability in primary production and particulate matter export at Station ALOHA. Progress in Oceanography, 2021, 195, 102563.	1.5	32

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73	Artifacts in measurements of chlorophyll fluorescence transients, with specific application to fast repetition rate fluorometry. Limnology and Oceanography: Methods, 2008, 6, 40-50.	1.0	31
74	Temporal and vertical dynamics in picoplankton photoheterotrophic production in the subtropical North Pacific Ocean. Aquatic Microbial Ecology, 2006, 45, 41-53.	0.9	31
75	Initiation of the spring phytoplankton increase in the Antarctic Polar Front zone at 170Â°W. Journal of Geophysical Research, 2001, 106, 13903-13915.	3.3	30
76	Phytoplankton pigment distribution in relation to silicic acid, iron and the physical structure across the Antarctic Polar Front, 170Â°W, during austral summer. Deep-Sea Research Part II: Topical Studies in Oceanography, 2001, 48, 4081-4100.	0.6	29
77	Parameterizing the natural fluorescence kinetics of Thalassiosira weissflogii. Limnology and Oceanography, 2005, 50, 1499-1510.	1.6	27
78	Jet stream intraseasonal oscillations drive dominant ecosystem variations in Oregon's summertime coastal upwelling system. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 13262-13267.	3.3	25
79	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.	0.6	25
80	Shortâ€term variability in euphotic zone biogeochemistry and primary productivity at Station ALOHA: A case study of summer 2012. Global Biogeochemical Cycles, 2015, 29, 1145-1164.	1.9	22
81	Variability of chromophytic phytoplankton in the North Pacific Subtropical Gyre. Deep-Sea Research Part II: Topical Studies in Oceanography, 2013, 93, 84-95.	0.6	21
82	Microbiome of Trichodesmium Colonies from the North Pacific Subtropical Gyre. Frontiers in Microbiology, 2017, 8, 1122.	1.5	21
83	Synthesis, characterization and theoretical studies of thiophene/phenylene derivatives as electroluminescent materials. Journal of Molecular Structure, 2010, 973, 56-61.	1.8	16
84	ALOHA From the Edge: Reconciling Three Decades of in Situ Eulerian Observations and Geographic Variability in the North Pacific Subtropical Gyre. Frontiers in Marine Science, 2018, 5, .	1.2	16
85	Light-induced growth of phytoplankton collected during the winter from the benthic boundary layer off Oregon, USA. Marine Ecology - Progress Series, 2004, 280, 95-104.	0.9	15
86	Temporal and vertical variability in photosynthesis in the North Pacific Subtropical Gyre. Limnology and Oceanography, 2008, 53, 1252-1265.	1.6	14
87	Physicochemical and biological controls on primary and net community production across northeast Pacific seascapes. Limnology and Oceanography, 2014, 59, 2013-2027.	1.6	14
88	Measuring the Natural Fluorescence of Phytoplankton Cultures. Journal of Atmospheric and Oceanic Technology, 2001, 18, 1924-1934.	0.5	11
89	Physiological Response of Crocosphaera watsonii to Enhanced and Fluctuating Carbon Dioxide Conditions. PLoS ONE, 2014, 9, e110660.	1.1	11
90	Analysis of a Method to Estimate Chlorophyll-aConcentration from Irradiance Measurements at Varying Depths. Journal of Atmospheric and Oceanic Technology, 2001, 18, 2063-2073.	0.5	8

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91	Temporal dynamics of total microbial biomass and particulate detritus at Station ALOHA. Progress in Oceanography, 2022, 205, 102803.	1.5	8
92	Physical and ecological uncertainties in the widespread implementation of controlled upwelling in the North Pacific Subtropical Gyre. Marine Ecology - Progress Series, 2008, 371, 305-308.	0.9	7
93	Improving the Remote Sensing Retrieval of Phytoplankton Functional Types (PFT) Using Empirical Orthogonal Functions: A Case Study in a Coastal Upwelling Region. Remote Sensing, 2018, 10, 498.	1.8	6
94	The role of upwelling intermittence in the development of hypoxia and nitrogen loss over the Oregon shelf. Journal of Marine Systems, 2020, 207, 103342.	0.9	6
95	<title>Bio-optical drifters: scales of variability of chlorophyll and fluorescence</title>. , 1997, 2963, 216.		5
96	Paired windward and leeward biogeochemical time series reveal consistent surface ocean CO₂ trends across the Hawaiian Ridge. Geophysical Research Letters, 2014, 41, 6459-6467.	1.5	5
97	Impact of Temperature on Absorption Coefficient of Pure Seawater in the Blue Wavelengths Inferred from Satellite and In Situ Measurements. Journal of Remote Sensing, 2021, 2021, .	3.2	4
98	Monitoring Ocean Change in the 21st Century. Eos, 2017, , .	0.1	4
99	IV.9 Seascape Microbial Ecology: Habitat Structure, Biodiversity, and Ecosystem Function. , 2009, , 488-500.		3
100	The influence of abrupt increases in seawater pCO2 on plankton productivity in the subtropical North Pacific Ocean. PLoS ONE, 2018, 13, e0193405.	1.1	3
101	Internal rotation spectra of HONO and HSSH. Spectrochimica Acta Part A: Molecular Spectroscopy, 1991, 47, 29-33.	0.1	2
102	Using lasers to probe the transient light absorption by proteorhodopsin in marine bacterioplankton. Applied Optics, 2007, 46, 7329.	2.1	1
103	ON THE ANNUAL CYCLE OF SATELLITE CHLOROPHYLL OFF CHILE (18Â°-40Â°S). Gayana, 2004, 68, .	0.0	1
104	USING A NONANALYTICAL APPROACH TO MODEL NONLINEAR DYNAMICS IN PHOTOSYNTHESIS AT THE PHOTOSYSTEM LEVEL¹. Journal of Phycology, 2009, 45, 298-310.	1.0	0
105	Workshop Report: Organic Inventories. Geophysical Monograph Series, 2013, , 101-117.	0.1	0