

Ricardo M Letelier

List of Publications by Year in descending order

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105
papers

11,548
citations

46918

47
h-index

31759

101
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117
all docs

117
docs citations

117
times ranked

9501
citing authors

#	ARTICLE	IF	CITATIONS
1	Temporal dynamics of total microbial biomass and particulate detritus at Station ALOHA. <i>Progress in Oceanography</i> , 2022, 205, 102803.	1.5	8
2	Impact of Temperature on Absorption Coefficient of Pure Seawater in the Blue Wavelengths Inferred from Satellite and <i>In Situ</i> Measurements. <i>Journal of Remote Sensing</i> , 2021, 2021, .	3.2	4
3	Seasonal-to-decadal scale variability in primary production and particulate matter export at Station ALOHA. <i>Progress in Oceanography</i> , 2021, 195, 102563.	1.5	32
4	The role of upwelling intermittence in the development of hypoxia and nitrogen loss over the Oregon shelf. <i>Journal of Marine Systems</i> , 2020, 207, 103342.	0.9	6
5	Ocean Time Series Observations of Changing Marine Ecosystems: An Era of Integration, Synthesis, and Societal Applications. <i>Frontiers in Marine Science</i> , 2019, 6, .	1.2	50
6	Kālauea lava fuels phytoplankton bloom in the North Pacific Ocean. <i>Science</i> , 2019, 365, 1040-1044.	6.0	35
7	Climate-driven oscillation of phosphorus and iron limitation in the North Pacific Subtropical Gyre. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 12720-12728.	3.3	44
8	Coupling carbon and energy fluxes in the North Pacific Subtropical Gyre. <i>Nature Communications</i> , 2019, 10, 1895.	5.8	60
9	Satellite sensor requirements for monitoring essential biodiversity variables of coastal ecosystems. <i>Ecological Applications</i> , 2018, 28, 749-760.	1.8	116
10	The influence of abrupt increases in seawater pCO ₂ on plankton productivity in the subtropical North Pacific Ocean. <i>PLoS ONE</i> , 2018, 13, e0193405.	1.1	3
11	ALOHA From the Edge: Reconciling Three Decades of <i>In Situ</i> Eulerian Observations and Geographic Variability in the North Pacific Subtropical Gyre. <i>Frontiers in Marine Science</i> , 2018, 5, .	1.2	16
12	Improving the Remote Sensing Retrieval of Phytoplankton Functional Types (PFT) Using Empirical Orthogonal Functions: A Case Study in a Coastal Upwelling Region. <i>Remote Sensing</i> , 2018, 10, 498.	1.8	6
13	Diversity and activity of nitrogen-fixing communities across ocean basins. <i>Limnology and Oceanography</i> , 2017, 62, 1895-1909.	1.6	97
14	Light absorption by phytoplankton in the North Pacific Subtropical Gyre. <i>Limnology and Oceanography</i> , 2017, 62, 1526-1540.	1.6	35
15	Temporal variability of nitrogen fixation and particulate nitrogen export at Station ALOHA. <i>Limnology and Oceanography</i> , 2017, 62, 200-216.	1.6	110
16	Productivity diagnosed from the diel cycle of particulate carbon in the North Pacific Subtropical Gyre. <i>Geophysical Research Letters</i> , 2017, 44, 3752-3760.	1.5	36
17	Microbiome of <i>Trichodesmium</i> Colonies from the North Pacific Subtropical Gyre. <i>Frontiers in Microbiology</i> , 2017, 8, 1122.	1.5	21
18	Monitoring Ocean Change in the 21st Century. <i>Eos</i> , 2017, , .	0.1	4

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19	Seascapes as a new vernacular for pelagic ocean monitoring, management and conservation. ICES Journal of Marine Science, 2016, 73, 1839-1850.	1.2	100
20	Short-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
21	Phenology of particle size distributions and primary productivity in the North Pacific subtropical gyre (Station ALOHA). Journal of Geophysical Research: Oceans, 2015, 120, 7381-7399.	1.0	45
22	Particle distributions and dynamics in the euphotic zone of the North Pacific subtropical gyre. Journal of Geophysical Research: Oceans, 2015, 120, 3229-3247.	1.0	35
23	Physiological Response of <i>Crocospaera watsonii</i> to Enhanced and Fluctuating Carbon Dioxide Conditions. PLoS ONE, 2014, 9, e110660.	1.1	11
24	Diversity trumps acidification: Lack of evidence for carbon dioxide enhancement of <i>Trichodesmium</i> community nitrogen or carbon fixation at Station ALOHA. Limnology and Oceanography, 2014, 59, 645-659.	1.6	44
25	A Framework for a Marine Biodiversity Observing Network Within Changing Continental Shelf Seascapes. Oceanography, 2014, 27, 18-23.	0.5	43
26	Physicochemical and biological controls on primary and net community production across northeast Pacific seascapes. Limnology and Oceanography, 2014, 59, 2013-2027.	1.6	14
27	Paired windward and leeward biogeochemical time series reveal consistent surface ocean CO ₂ trends across the Hawaiian Ridge. Geophysical Research Letters, 2014, 41, 6459-6467.	1.5	5
28	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
29	Hierarchical and dynamic seascapes: A quantitative framework for scaling pelagic biogeochemistry and ecology. Progress in Oceanography, 2014, 120, 291-304.	1.5	58
30	Experimental assessment of diazotroph responses to elevated seawater CO ₂ in the North Pacific Subtropical Gyre. Global Biogeochemical Cycles, 2014, 28, 601-616.	1.9	36
31	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
32	Workshop Report: Organic Inventories. Geophysical Monograph Series, 2013, , 101-117.	0.1	0
33	The MAREDAT global database of high performance liquid chromatography marine pigment measurements. Earth System Science Data, 2013, 5, 109-123.	3.7	44
34	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
35	Does eddy-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	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

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37	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
38	Satellite-based prediction of pCO ₂ in coastal waters of the eastern North Pacific. Progress in Oceanography, 2012, 103, 1-15.	1.5	88
39	Database of diazotrophs in global ocean: abundance, biomass and nitrogen fixation rates. Earth System Science Data, 2012, 4, 47-73.	3.7	315
40	Addition of inorganic or organic phosphorus enhances nitrogen and carbon fixation in the Åligotrophic North Pacific. Marine Ecology - Progress Series, 2011, 432, 17-29.	0.9	33
41	Size-dependent photosynthetic variability in the North Pacific Subtropical Gyre. Marine Ecology - Progress Series, 2011, 440, 27-40.	0.9	43
42	Phosphonate metabolism by <i>Trichodesmium</i> IMS101 and the production of greenhouse gases. Limnology and Oceanography, 2010, 55, 1755-1767.	1.6	36
43	Phosphonate metabolism by <i>Trichodesmium</i> IMS101 and the production of greenhouse gases. Limnology and Oceanography, 2010, 55, 1768-1778.	1.6	61
44	Synthesis, characterization and theoretical studies of thiophene/phenylene derivatives as electroluminescent materials. Journal of Molecular Structure, 2010, 973, 56-61.	1.8	16
45	Simulating the global distribution of nitrogen isotopes in the ocean. Global Biogeochemical Cycles, 2010, 24, .	1.9	186
46	An Open Ocean Trial of Controlled Upwelling Using Wave Pump Technology. Journal of Atmospheric and Oceanic Technology, 2010, 27, 385-396.	0.5	42
47	IV.9 Seascape Microbial Ecology: Habitat Structure, Biodiversity, and Ecosystem Function. , 2009, , 488-500.		3
48	USING A NONANALYTICAL APPROACH TO MODEL NONLINEAR DYNAMICS IN PHOTOSYNTHESIS AT THE PHOTOSYSTEM LEVEL ¹ . Journal of Phycology, 2009, 45, 298-310.	1.0	0
49	Autonomous observations of in vivo fluorescence and particle backscattering in an oceanic oxygen minimum zone. Optics Express, 2009, 17, 21992.	1.7	37
50	Physical forcing of nitrogen fixation and diazotroph community structure in the North Pacific subtropical gyre. Global Biogeochemical Cycles, 2009, 23, .	1.9	200
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	Nitrogen fixation in an anticyclonic eddy in the oligotrophic North Pacific Ocean. ISME Journal, 2008, 2, 663-676.	4.4	137
53	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
54	Light scattering by random shaped particles and consequences on measuring suspended sediments by laser diffraction. Journal of Geophysical Research, 2008, 113, .	3.3	132

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55	Satellite-derived variability in chlorophyll, wind stress, sea surface height, and temperature in the northern California Current System. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	52
56	Artifacts in measurements of chlorophyll fluorescence transients, with specific application to fast repetition rate fluorometry. <i>Limnology and Oceanography: Methods</i> , 2008, 6, 40-50.	1.0	31
57	Temporal and vertical variability in photosynthesis in the North Pacific Subtropical Gyre. <i>Limnology and Oceanography</i> , 2008, 53, 1252-1265.	1.6	14
58	The Nitrogen Cycle in the North Pacific Trades Biome. , 2008, , 705-769.		35
59	Nitrogen fixation-enhanced carbon sequestration in low nitrate, low chlorophyll seascapes. <i>Marine Ecology - Progress Series</i> , 2008, 364, 257-268.	0.9	109
60	Physical and ecological uncertainties in the widespread implementation of controlled upwelling in the North Pacific Subtropical Gyre. <i>Marine Ecology - Progress Series</i> , 2008, 371, 305-308.	0.9	7
61	Jet stream intraseasonal oscillations drive dominant ecosystem variations in Oregon's summertime coastal upwelling system. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 13262-13267.	3.3	25
62	Spatial and spectral resolution considerations for imaging coastal waters. <i>Proceedings of SPIE</i> , 2007, , .	0.8	33
63	Using lasers to probe the transient light absorption by proteorhodopsin in marine bacterioplankton. <i>Applied Optics</i> , 2007, 46, 7329.	2.1	1
64	Summer surface waters in the Gulf of California: Prime habitat for biological N ₂ fixation. <i>Global Biogeochemical Cycles</i> , 2007, 21, n/a-n/a.	1.9	53
65	Impact of climate forcing on ecosystem processes in the North Pacific Subtropical Gyre. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	69
66	What factors are driving summer phytoplankton blooms in the North Pacific Subtropical Gyre?. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	58
67	The Newport line off Oregon " Studies in the North East Pacific. <i>Progress in Oceanography</i> , 2007, 75, 126-160.	1.5	32
68	ASSESSING PRIMARY PRODUCTION VARIABILITY IN THE NORTH PACIFIC SUBTROPICAL GYRE: A COMPARISON OF FAST REPETITION RATE FLUOROMETRY AND 14C MEASUREMENTS1. <i>Journal of Phycology</i> , 2006, 42, 51-60.	1.0	59
69	Climate-driven trends in contemporary ocean productivity. <i>Nature</i> , 2006, 444, 752-755.	13.7	1,873
70	Flexible elemental stoichiometry in <i>Trichodesmium</i> spp. and its ecological implications. <i>Limnology and Oceanography</i> , 2006, 51, 1777-1790.	1.6	89
71	Temporal and vertical dynamics in picoplankton photoheterotrophic production in the subtropical North Pacific Ocean. <i>Aquatic Microbial Ecology</i> , 2006, 45, 41-53.	0.9	31
72	Modeling carbohydrate ballasting by <i>Trichodesmium</i> spp.. <i>Marine Ecology - Progress Series</i> , 2006, 323, 35-45.	0.9	33

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73	Parameterizing the natural fluorescence kinetics of <i>Thalassiosira weissflogii</i> . <i>Limnology and Oceanography</i> , 2005, 50, 1499-1510.	1.6	27
74	Influence of Rossby waves on nutrient dynamics and the plankton community structure in the North Pacific subtropical gyre. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	68
75	Light driven seasonal patterns of chlorophyll and nitrate in the lower euphotic zone of the North Pacific Subtropical Gyre. <i>Limnology and Oceanography</i> , 2004, 49, 508-519.	1.6	246
76	Light-induced growth of phytoplankton collected during the winter from the benthic boundary layer off Oregon, USA. <i>Marine Ecology - Progress Series</i> , 2004, 280, 95-104.	0.9	15
77	ON THE ANNUAL CYCLE OF SATELLITE CHLOROPHYLL OFF CHILE (18°-40°S). <i>Gayana</i> , 2004, 68, .	0.0	1
78	Validation of Terra-MODIS phytoplankton chlorophyll fluorescence line height I Initial airborne lidar results. <i>Applied Optics</i> , 2003, 42, 2767.	2.1	48
79	Dinitrogen fixation in the world's oceans. <i>Biogeochemistry</i> , 2002, 57, 47-98.	1.7	586
80	Initiation of the spring phytoplankton increase in the Antarctic Polar Front zone at 170°W. <i>Journal of Geophysical Research</i> , 2001, 106, 13903-13915.	3.3	30
81	Long-term changes in plankton community structure and productivity in the North Pacific Subtropical Gyre: The domain shift hypothesis. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2001, 48, 1449-1470.	0.6	297
82	Ecological nitrogen-to-phosphorus stoichiometry at station ALOHA. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2001, 48, 1529-1566.	0.6	274
83	Phytoplankton pigment distribution in relation to silicic acid, iron and the physical structure across the Antarctic Polar Front, 170°W, during austral summer. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2001, 48, 4081-4100.	0.6	29
84	A deterministic model for N ₂ fixation at stn. ALOHA in the subtropical North Pacific Ocean. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2001, 49, 149-174.	0.6	54
85	Measuring the Natural Fluorescence of Phytoplankton Cultures. <i>Journal of Atmospheric and Oceanic Technology</i> , 2001, 18, 1924-1934.	0.5	11
86	Analysis of a Method to Estimate Chlorophyll-a Concentration from Irradiance Measurements at Varying Depths. <i>Journal of Atmospheric and Oceanic Technology</i> , 2001, 18, 2063-2073.	0.5	8
87	The spring bloom in the Antarctic Polar Frontal Zone as observed from a mesoscale array of bio-optical sensors. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2000, 47, 3285-3314.	0.6	74
88	Role of late winter mesoscale events in the biogeochemical variability of the upper water column of the North Pacific Subtropical Gyre. <i>Journal of Geophysical Research</i> , 2000, 105, 28723-28739.	3.3	109
89	Decorrelation scales of chlorophyll as observed from bio-optical drifters in the California Current. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 1998, 45, 1639-1667.	0.6	55
90	An overview of MODIS capabilities for ocean science observations. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 1998, 36, 1250-1265.	2.7	433

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91	The role of dissolved organic matter release in the productivity of the oligotrophic North Pacific Ocean. <i>Limnology and Oceanography</i> , 1998, 43, 1270-1286.	1.6	203
92	<i>Trichodesmium</i> spp. physiology and nutrient fluxes in the North Pacific subtropical gyre. <i>Aquatic Microbial Ecology</i> , 1998, 15, 265-276.	0.9	119
93	<title>Bio-optical drifters: scales of variability of chlorophyll and fluorescence</title>. , 1997, 2963, 216.		5
94	Chlorophyll natural fluorescence response to upwelling events in the Southern Ocean. <i>Geophysical Research Letters</i> , 1997, 24, 409-412.	1.5	36
95	The role of nitrogen fixation in biogeochemical cycling in the subtropical North Pacific Ocean. <i>Nature</i> , 1997, 388, 533-538.	13.7	876
96	Seasonal and interannual variability in primary production and particle flux at Station ALOHA. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 1996, 43, 539-568.	0.6	367
97	Seasonal and interannual variations in photosynthetic carbon assimilation at Station. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 1996, 43, 467-490.	0.6	125
98	Microbiological oceanography in the region west of the Antarctic Peninsula: Microbial dynamics, nitrogen cycle and carbon flux. <i>Antarctic Research Series</i> , 1996, , 303-332.	0.2	43
99	An analysis of chlorophyll fluorescence algorithms for the moderate resolution imaging spectrometer (MODIS). <i>Remote Sensing of Environment</i> , 1996, 58, 215-223.	4.6	227
100	Role of <i>Trichodesmium</i> spp. in the productivity of the subtropical North Pacific Ocean. <i>Marine Ecology - Progress Series</i> , 1996, 133, 263-273.	0.9	188
101	Ecosystem changes in the North Pacific subtropical gyre attributed to the 1991-1992 El Niño. <i>Nature</i> , 1995, 373, 230-234.	13.7	269
102	Seasonal variability in the phytoplankton community of the North Pacific Subtropical Gyre. <i>Global Biogeochemical Cycles</i> , 1995, 9, 605-620.	1.9	98
103	Temporal variability of phytoplankton community structure based on pigment analysis. <i>Limnology and Oceanography</i> , 1993, 38, 1420-1437.	1.6	310
104	<i>Trichodesmium</i> Blooms and New Nitrogen in the North Pacific Gyre. , 1992, , 219-237.		148
105	Internal rotation spectra of HONO and HSSH. <i>Spectrochimica Acta Part A: Molecular Spectroscopy</i> , 1991, 47, 29-33.	0.1	2