

Julie LaRoche

List of Publications by Year in descending order

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Version: 2024-02-01

111
papers

23,794
citations

18436

62
h-index

24915

109
g-index

113
all docs

113
docs citations

113
times ranked

20764
citing authors

#	ARTICLE	IF	CITATIONS
1	Niche partitioning by photosynthetic plankton as a driver of CO ₂ -fixation across the oligotrophic South Pacific Subtropical Ocean. <i>ISME Journal</i> , 2022, 16, 465-476.	4.4	10
2	Essential outcomes for COP26. <i>Global Change Biology</i> , 2022, 28, 1-3.	4.2	40
3	Heterogeneous viral contribution to dissolved organic matter processing in a long-term macrocosm experiment. <i>Environment International</i> , 2022, 158, 106950.	4.8	10
4	Highly-resolved interannual phytoplankton community dynamics of the coastal Northwest Atlantic. <i>ISME Communications</i> , 2022, 2, .	1.7	8
5	N-linked glycosylation enzymes in the diatom <i>Thalassiosira oceanica</i> exhibit a diel cycle in transcript abundance and favor for NXT-type sites. <i>Scientific Reports</i> , 2021, 11, 3227.	1.6	8
6	Physical mixing in coastal waters controls and decouples nitrification via biomass dilution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	23
7	Harnessing the Potential of Native Microbial Communities for Bioremediation of Oil Spills in the Iberian Peninsula NW Coast. <i>Frontiers in Microbiology</i> , 2021, 12, 633659.	1.5	20
8	Correcting a major error in assessing organic carbon pollution in natural waters. <i>Science Advances</i> , 2021, 7, .	4.7	37
9	Plankton classification with high-throughput submersible holographic microscopy and transfer learning. <i>Bmc Ecology and Evolution</i> , 2021, 21, 123.	0.7	13
10	Iron uptake proteins in algae and the role of Iron Starvation-Induced Proteins (ISIPs). <i>European Journal of Phycology</i> , 2020, 55, 339-360.	0.9	38
11	The Transfer of the Ferredoxin Gene From the Chloroplast to the Nuclear Genome Is Ancient Within the Paraphyletic Genus <i>Thalassiosira</i> . <i>Frontiers in Microbiology</i> , 2020, 11, 523689.	1.5	4
12	Geomicrobiology of the carbon, nitrogen and sulphur cycles in Powell Lake: a permanently stratified water column containing ancient seawater. <i>Environmental Microbiology</i> , 2019, 21, 3927-3952.	1.8	10
13	Regulation of the Phytoplankton Heme b Iron Pool During the North Atlantic Spring Bloom. <i>Frontiers in Microbiology</i> , 2019, 10, 1566.	1.5	4
14	Influence of 16S rRNA variable region on perceived diversity of marine microbial communities of the Northern North Atlantic. <i>FEMS Microbiology Letters</i> , 2019, 366, .	0.7	45
15	Evidence of high N ₂ fixation rates in the temperate northeast Atlantic. <i>Biogeosciences</i> , 2019, 16, 999-1017.	1.3	18
16	Drivers of Regional Bacterial Community Structure and Diversity in the Northwest Atlantic Ocean. <i>Frontiers in Microbiology</i> , 2019, 10, 281.	1.5	50
17	A diet-change modulates the previously established bacterial gut community in juvenile brown trout (<i>Salmo trutta</i>). <i>Scientific Reports</i> , 2019, 9, 2339.	1.6	28
18	On the Relationship Between Hydrogen Saturation in the Tropical Atlantic Ocean and Nitrogen Fixation by the Symbiotic Diazotroph UCYN- <i>A</i> . <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 2353-2362.	1.0	9

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19	A reevaluation of the magnitude and impacts of anthropogenic atmospheric nitrogen inputs on the ocean. <i>Global Biogeochemical Cycles</i> , 2017, 31, 289-305.	1.9	146
20	A communal catalogue reveals Earth's multiscale microbial diversity. <i>Nature</i> , 2017, 551, 457-463.	13.7	1,942
21	The malleable gut microbiome of juvenile rainbow trout (<i>Oncorhynchus mykiss</i>): Diet-dependent shifts of bacterial community structures. <i>PLoS ONE</i> , 2017, 12, e0177735.	1.1	96
22	The small unicellular diazotrophic symbiont, UCYN-A, is a key player in the marine nitrogen cycle. <i>Nature Microbiology</i> , 2016, 1, 16163.	5.9	194
23	Evidence for polyploidy in the globally important diazotroph <i>Trichodesmium</i> . <i>FEMS Microbiology Letters</i> , 2016, 363, fnw244.	0.7	57
24	Sources of iron and phosphate affect the distribution of diazotrophs in the North Atlantic. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2015, 116, 332-341.	0.6	30
25	The ocean sampling day consortium. <i>GigaScience</i> , 2015, 4, 27.	3.3	185
26	The effect of nutrients on carbon and nitrogen fixation by the UCYN-A haptophyte symbiosis. <i>ISME Journal</i> , 2015, 9, 1635-1647.	4.4	83
27	Widespread Distribution and Expression of Gamma A (UMB), an Uncultured, Diazotrophic, β -Proteobacterial <i>nifH</i> Phylotype. <i>PLoS ONE</i> , 2015, 10, e0128912.	1.1	56
28	Aerobic Microbial Respiration In Oceanic Oxygen Minimum Zones. <i>PLoS ONE</i> , 2015, 10, e0133526.	1.1	99
29	A Canadian contribution to an integrated Atlantic ocean observing system (IAOOS). , 2014, , .		3
30	Handling Temperature Bursts Reaching 464°C: Different Microbial Strategies in the Sisters Peak Hydrothermal Chimney. <i>Applied and Environmental Microbiology</i> , 2014, 80, 4585-4598.	1.4	26
31	Facets of diazotrophy in the oxygen minimum zone waters off Peru. <i>ISME Journal</i> , 2014, 8, 2180-2192.	4.4	121
32	In situ identification and N ₂ and C fixation rates of uncultivated cyanobacteria populations. <i>Systematic and Applied Microbiology</i> , 2013, 36, 259-271.	1.2	76
33	Fragment recruitment on metabolic pathways: comparative metabolic profiling of metagenomes and metatranscriptomes. <i>Bioinformatics</i> , 2013, 29, 790-791.	1.8	8
34	Processes and patterns of oceanic nutrient limitation. <i>Nature Geoscience</i> , 2013, 6, 701-710.	5.4	1,627
35	Effect of elevated CO ₂ on the dynamics of particle-attached and free-living bacterioplankton communities in an Arctic fjord. <i>Biogeosciences</i> , 2013, 10, 181-191.	1.3	26
36	Resolution of Conflicting Signals at the Single-Cell Level in the Regulation of Cyanobacterial Photosynthesis and Nitrogen Fixation. <i>PLoS ONE</i> , 2013, 8, e66060.	1.1	25

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37	Giant Hydrogen Sulfide Plume in the Oxygen Minimum Zone off Peru Supports Chemolithoautotrophy. PLoS ONE, 2013, 8, e68661.	1.1	158
38	Ocean acidification shows negligible impacts on high-latitude bacterial community structure in coastal pelagic mesocosms. Biogeosciences, 2013, 10, 555-566.	1.3	60
39	Production of oceanic nitrous oxide by ammonia-oxidizing archaea. Biogeosciences, 2012, 9, 2419-2429.	1.3	195
40	Doubling of marine dinitrogen-fixation rates based on direct measurements. Nature, 2012, 488, 361-364.	13.7	273
41	Genome and low-iron response of an oceanic diatom adapted to chronic iron limitation. Genome Biology, 2012, 13, R66.	13.9	224
42	Heterotrophic organisms dominate nitrogen fixation in the South Pacific Gyre. ISME Journal, 2012, 6, 1238-1249.	4.4	162
43	Factors Influencing the Diversity of Iron Uptake Systems in Aquatic Microorganisms. Frontiers in Microbiology, 2012, 3, 362.	1.5	25
44	Direct and indirect costs of dinitrogen fixation in <i>Crocospaera watsonii</i> WH8501 and possible implications for the nitrogen cycle. Frontiers in Microbiology, 2012, 3, 236.	1.5	95
45	No stimulation of nitrogen fixation by non-filamentous diazotrophs under elevated CO_2 in the South Pacific. Global Change Biology, 2012, 18, 3004-3014.	4.2	50
46	Diazotrophic bacteria respond to Saharan dust additions. Marine Ecology - Progress Series, 2012, 470, 1-14.	0.9	54
47	Database of diazotrophs in global ocean: abundance, biomass and nitrogen fixation rates. Earth System Science Data, 2012, 4, 47-73.	3.7	315
48	Oxygen Sensitivity of Anammox and Coupled N-Cycle Processes in Oxygen Minimum Zones. PLoS ONE, 2011, 6, e29299.	1.1	228
49	Environmental Forcing of Nitrogen Fixation in the Eastern Tropical and Sub-Tropical North Atlantic Ocean. PLoS ONE, 2011, 6, e28989.	1.1	32
50	Recent transfer of an iron-regulated gene from the plastid to the nuclear genome in an oceanic diatom adapted to chronic iron limitation. BMC Genomics, 2010, 11, 718.	1.2	67
51	<i>EMILIANA HUXLEYI</i> (PRYMNESIOPHYCEAE): NITROGEN-METABOLISM GENES AND THEIR EXPRESSION IN RESPONSE TO EXTERNAL NITROGEN SOURCES. Journal of Phycology, 2010, 46, 266-277.	1.0	26
52	Diel rhythm of nitrogen and carbon metabolism in the unicellular, diazotrophic cyanobacterium <i>Crocospaera watsonii</i> WH8501. Environmental Microbiology, 2010, 12, 412-421.	1.8	61
53	Regulation of nitrogen metabolism in the marine diazotroph <i>Trichodesmium</i> IMS101 under varying temperatures and atmospheric CO_2 concentrations. Environmental Microbiology, 2010, 12, 1899-1912.	1.8	47
54	The Influence of pCO ₂ and Temperature on Gene Expression of Carbon and Nitrogen Pathways in <i>Trichodesmium</i> IMS101. PLoS ONE, 2010, 5, e15104.	1.1	34

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55	Methodological Underestimation of Oceanic Nitrogen Fixation Rates. PLoS ONE, 2010, 5, e12583.	1.1	354
56	Distribution Analysis of Hydrogenases in Surface Waters of Marine and Freshwater Environments. PLoS ONE, 2010, 5, e13846.	1.1	48
57	Influence of river discharge in the tropical and subtropical North Atlantic Ocean. Limnology and Oceanography, 2009, 54, 644-648.	1.6	7
58	Large-scale distribution of Atlantic nitrogen fixation controlled by iron availability. Nature Geoscience, 2009, 2, 867-871.	5.4	396
59	Co-occurrence of denitrification and nitrogen fixation in a meromictic lake, Lake Cadagno (Switzerland). Environmental Microbiology, 2009, 11, 1945-1958.	1.8	119
60	Co-occurrence of denitrification and nitrogen fixation in a meromictic lake, Lake Cadagno (Switzerland). Environmental Microbiology, 2009, 11, 2190-2190.	1.8	75
61	The Phaeodactylum genome reveals the evolutionary history of diatom genomes. Nature, 2008, 456, 239-244.	13.7	1,458
62	Impacts of Atmospheric Anthropogenic Nitrogen on the Open Ocean. Science, 2008, 320, 893-897.	6.0	964
63	Abundances and Distributions of the Dominant <i>nifH</i> Phylotypes in the Northern Atlantic Ocean. Applied and Environmental Microbiology, 2008, 74, 1922-1931.	1.4	197
64	Whole-cell response of the pennate diatom <i>Phaeodactylum tricornutum</i> to iron starvation. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 10438-10443.	3.3	414
65	Nitrogen and phosphorus limitation of bacterial productivity and growth in the oligotrophic subtropical North Atlantic. Limnology and Oceanography, 2008, 53, 824-834.	1.6	77
66	Influence of cell cycle phase on calcification in the coccolithophore <i>Emiliana huxleyi</i> . Limnology and Oceanography, 2008, 53, 506-512.	1.6	94
67	Relative influence of nitrogen and phosphorous availability on phytoplankton physiology and productivity in the oligotrophic subtropical North Atlantic Ocean. Limnology and Oceanography, 2008, 53, 291-305.	1.6	206
68	Nutrient limitation of picophytoplankton photosynthesis and growth in the tropical North Atlantic. Limnology and Oceanography, 2008, 53, 1722-1733.	1.6	88
69	Nitrogen fixation and growth rates of <i>Trichodesmium</i> IMS-101 as a function of light intensity. Marine Ecology - Progress Series, 2008, 359, 25-36.	0.9	59
70	Physiological constraints on the global distribution of <i>Trichodesmium</i> : effect of temperature on diazotrophy. Biogeosciences, 2007, 4, 53-61.	1.3	230
71	Iron limits primary productivity during spring bloom development in the central North Atlantic. Global Change Biology, 2006, 12, 626-634.	4.2	134
72	The Regulation of Carbon and Nutrient Assimilation in Diatoms is Significantly Different from Green Algae. Protist, 2006, 157, 91-124.	0.6	239

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73	Diazotrophic Diversity and Distribution in the Tropical and Subtropical Atlantic Ocean. <i>Applied and Environmental Microbiology</i> , 2005, 71, 7910-7919.	1.4	161
74	Global Iron Connections Between Desert Dust, Ocean Biogeochemistry, and Climate. <i>Science</i> , 2005, 308, 67-71.	6.0	2,365
75	Importance of the diazotrophs as a source of new nitrogen in the ocean. <i>Journal of Sea Research</i> , 2005, 53, 67-91.	0.6	227
76	Iron and phosphorus co-limit nitrogen fixation in the eastern tropical North Atlantic. <i>Nature</i> , 2004, 429, 292-294.	13.7	842
77	The Bunsen gas solubility coefficient of ethylene as a function of temperature and salinity and its importance for nitrogen fixation assays. <i>Limnology and Oceanography: Methods</i> , 2004, 2, 282-288.	1.0	94
78	The role of the picoeukaryote <i>Aureococcus anophagefferens</i> in cycling of marine high-molecular weight dissolved organic nitrogen. <i>Limnology and Oceanography</i> , 2003, 48, 1825-1830.	1.6	40
79	Dissolved Organic Nitrogen Hydrolysis Rates in Axenic Cultures of <i>Aureococcus anophagefferens</i> (Pelagophyceae): Comparison with Heterotrophic Bacteria. <i>Applied and Environmental Microbiology</i> , 2002, 68, 401-404.	1.4	90
80	Redfield revisited: variability of C:N:P in marine microalgae and its biochemical basis. <i>European Journal of Phycology</i> , 2002, 37, 1-17.	0.9	1,179
81	Retention of dissolved iron and Ferritin in an iron induced Southern Ocean phytoplankton bloom. <i>Geophysical Research Letters</i> , 2001, 28, 3425-3428.	1.5	132
82	Iron uptake and physiological response of phytoplankton during a mesoscale Southern Ocean iron enrichment. <i>Limnology and Oceanography</i> , 2001, 46, 1802-1808.	1.6	78
83	Primary productivity of planet earth: biological determinants and physical constraints in terrestrial and aquatic habitats. <i>Global Change Biology</i> , 2001, 7, 849-882.	4.2	281
84	VERTICAL MIGRATION BY RHIZOSOLENIA SPP. (BACILLARIOPHYCEAE): IMPLICATIONS FOR FE ACQUISITION. <i>Journal of Phycology</i> , 2000, 36, 669-674.	1.0	28
85	A mesoscale phytoplankton bloom in the polar Southern Ocean stimulated by iron fertilization. <i>Nature</i> , 2000, 407, 695-702.	13.7	1,417
86	ACCUMULATION OF FERREDOXIN AND FLAVODOXIN IN A MARINE DIATOM IN RESPONSE TO FE. <i>Journal of Phycology</i> , 1999, 35, 510-519.	1.0	69
87	Role of iron, light, and silicate in controlling algal biomass in subantarctic waters SE of New Zealand. <i>Journal of Geophysical Research</i> , 1999, 104, 13395-13408.	3.3	265
88	The petF region of the chloroplast genome from the diatom <i>Thalassiosira weissflogii</i> : sequence, organization and phylogeny. <i>European Journal of Phycology</i> , 1998, 33, 203-211.	0.9	12
89	Does Leaf Position within a Canopy Affect Acclimation of Photosynthesis to Elevated CO ₂ ? <i>Plant Physiology</i> , 1998, 117, 1037-1045.	2.3	81
90	The petF region of the chloroplast genome from the diatom <i>Thalassiosira weissflogii</i> : sequence, organization and phylogeny. <i>European Journal of Phycology</i> , 1998, 33, 203-211.	0.9	9

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91	Physiological and Biochemical Response of the Photosynthetic Apparatus of Two Marine Diatoms to Fe Stress. <i>Plant Physiology</i> , 1997, 114, 615-622.	2.3	100
92	Does Long-Term Elevation of CO ₂ Concentration Increase Photosynthesis in Forest Floor Vegetation? (Indiana Strawberry in a Maryland Forest). <i>Plant Physiology</i> , 1997, 114, 337-344.	2.3	69
93	Title is missing!. <i>Photosynthesis Research</i> , 1997, 51, 209-222.	1.6	56
94	Brown Tide blooms in Long Island's coastal waters linked to interannual variability in groundwater flow. <i>Global Change Biology</i> , 1997, 3, 397-410.	4.2	214
95	Independent evolution of the prochlorophyte and green plant chlorophyll a/b light-harvesting proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1996, 93, 15244-15248.	3.3	223
96	PHYSIOLOGICAL RESPONSES TO PHOSPHORUS LIMITATION IN BATCH AND STEADY-STATE CULTURES OF <i>DUNALIELLA TERTIOLECTA</i> (CHLOROPHYTA): A UNIQUE STRESS PROTEIN AS AN INDICATOR OF PHOSPHATE DEFICIENCY1. <i>Journal of Phycology</i> , 1996, 32, 825-838.	1.0	42
97	Flavodoxin as an in situ marker for iron stress in phytoplankton. <i>Nature</i> , 1996, 382, 802-805.	13.7	269
98	Light intensity regulation of cab gene transcription is signaled by the redox state of the plastoquinone pool.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1995, 92, 10237-10241.	3.3	641
99	A cDNA for <i>Dunaliella tertiolecta</i> Cytosol Ribosomal Protein S11. <i>Plant Physiology</i> , 1994, 105, 1447-1448.	2.3	1
100	The role of iron in phytoplankton photosynthesis, and the potential for iron-limitation of primary productivity in the sea. <i>Photosynthesis Research</i> , 1994, 39, 275-301.	1.6	382
101	Non-photochemical fluorescence quenching and the diadinoxanthin cycle in a marine diatom. <i>Photosynthesis Research</i> , 1994, 41, 357-370.	1.6	244
102	Cloning and nucleotide sequence of a cDNA encoding a major fucoxanthin-, chlorophylla/c-containing protein from the chrysophyte <i>sochrysis galbana</i> : implications for evolution of the cab gene family. <i>Plant Molecular Biology</i> , 1994, 25, 355-368.	2.0	34
103	RESPONSE OF THE PHOTOSYNTHETIC APPARATUS OF <i>PHAEODACTYLUM TRICORNUTUM</i> (BACILLARIOPHYCEAE) TO NITRATE, PHOSPHATE, OR IRON STARVATION1. <i>Journal of Phycology</i> , 1993, 29, 755-766.	1.0	374
104	INDUCTION OF SPECIFIC PROTEINS IN EUKARYOTIC ALGAE GROWN UNDER IRON-, PHOSPHORUS-, OR NITROGEN-DEFICIENT CONDITIONS1. <i>Journal of Phycology</i> , 1993, 29, 767-777.	1.0	149
105	Estimating the Growth Rate of Slowly Growing Marine Bacteria from RNA Content. <i>Applied and Environmental Microbiology</i> , 1993, 59, 2594-2601.	1.4	292
106	Molecular Biology in Studies of Ocean Processes. <i>International Review of Cytology</i> , 1991, , 261-303.	6.2	23
107	ACCLIMATION TO SPECTRAL IRRADIANCE IN ALGAE. <i>Journal of Phycology</i> , 1991, 27, 8-14.	1.0	655
108	Light Intensity-Induced Changes in <i>cab</i> mRNA and Light Harvesting Complex II Apoprotein Levels in the Unicellular Chlorophyte <i>Dunaliella tertiolecta</i> . <i>Plant Physiology</i> , 1991, 97, 147-153.	2.3	83

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109	Characterization of a cDNA encoding for the 28.5-kDa LHCII apoprotein from the unicellular marine chlorophyte, <i>Dunaliella tertiolecta</i> . <i>Gene</i> , 1990, 95, 165-171.	1.0	36
110	Regulation of LHC II mRNA Levels During Photoadaptation in <i>Dunaliella tertiolecta</i> (Chlorophyceae). , 1990, , 3151-3154.		2
111	Atypical mitochondrial DNA from the deep-sea scallop <i>Placopecten magellanicus</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1987, 84, 7595-7599.	3.3	95