

# Louis Prieur

## List of Publications by Year in descending order

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78  
papers

7,906  
citations

94433

37  
h-index

69250

77  
g-index

80  
all docs

80  
docs citations

80  
times ranked

5260  
citing authors

#	ARTICLE	IF	CITATIONS
1	Analysis of variations in ocean color1. <i>Limnology and Oceanography</i> , 1977, 22, 709-722.	3.1	1,946
2	Absorption by dissolved organic matter of the sea (yellow substance) in the UV and visible domains1. <i>Limnology and Oceanography</i> , 1981, 26, 43-53.	3.1	1,258
3	An optical classification of coastal and oceanic waters based on the specific spectral absorption curves of phytoplankton pigments, dissolved organic matter, and other particulate materials1. <i>Limnology and Oceanography</i> , 1981, 26, 671-689.	3.1	688
4	Marine ecosystemsâ€™ responses to climatic and anthropogenic forcings in the Mediterranean. <i>Progress in Oceanography</i> , 2011, 91, 97-166.	3.2	385
5	Optical efficiency factors of some phytoplankters1. <i>Limnology and Oceanography</i> , 1983, 28, 816-832.	3.1	290
6	Variations in the spectral values of specific absorption of phytoplankton. <i>Limnology and Oceanography</i> , 1987, 32, 403-415.	3.1	255
7	Integrated survey of elemental stoichiometry (C, N, P) from the western to eastern Mediterranean Sea. <i>Biogeosciences</i> , 2011, 8, 883-899.	3.3	178
8	Daily and seasonal variations in the spatial distribution of zooplankton populations in relation to the physical structure in the Ligurian Sea Front. <i>Journal of Marine Research</i> , 1987, 45, 133-173.	0.3	146
9	Phytoplankton dynamics associated with a geostrophic front: Ecological and biogeochemical implications. <i>Journal of Marine Research</i> , 1994, 52, 711-742.	0.3	135
10	Tracing the transport of colored dissolved organic matter in water masses of the Southern Beaufort Sea: relationship with hydrographic characteristics. <i>Biogeosciences</i> , 2012, 9, 925-940.	3.3	132
11	One-month study in the open NW Mediterranean Sea (DYNAPROC experiment, May 1995): overview of the hydrobiogeochemical structures and effects of wind events. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2000, 47, 397-422.	1.4	108
12	Aspects of the seasonal and mesoscale variabilities of the Northern Current in the western Mediterranean Sea inferred from the PROLIG-2 and PROS-6 experiments. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 1995, 42, 893-917.	1.4	101
13	Submesoscale physicalâ€”biogeochemical coupling across the Ligurian current (northwestern) Tj ETQq1 1 0.784314 rgBT /Overlock 10	3.3	101
14	Spreading of Levantine Intermediate Waters by submesoscale coherent vortices in the northwestern Mediterranean Sea as observed with gliders. <i>Journal of Geophysical Research: Oceans</i> , 2015, 120, 1599-1622.	2.6	80
15	â€œAlmofront-1â€”(Aprilâ€”May 1991): an interdisciplinary study of the Almeria-Oran geostrophic front, SW Mediterranean Sea. <i>Journal of Marine Systems</i> , 1994, 5, 187-203.	2.1	75
16	Introduction to the Biogeochemistry from the Oligotrophic to the Ultraoligotrophic Mediterranean (BOUM) experiment. <i>Biogeosciences</i> , 2012, 9, 3817-3825.	3.3	74
17	Multiscale Observations of Deep Convection in the Northwestern Mediterranean Sea During Winter 2012â€”2013 Using Multiple Platforms. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 1745-1776.	2.6	71
18	Phytoplankton and primary production characteristics at selected sites in the geostrophic Almeria-Oran front system (SW Mediterranean Sea). <i>Journal of Marine Systems</i> , 1994, 5, 235-250.	2.1	65

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19	Enhancing the comprehension of mixed layer depth control on the Mediterranean phytoplankton phenology. <i>Journal of Geophysical Research: Oceans</i> , 2013, 118, 3416-3430.	2.6	65
20	Scales and dynamics of submesoscale coherent vortices formed by deep convection in the northwestern Mediterranean Sea. <i>Journal of Geophysical Research: Oceans</i> , 2016, 121, 7716-7742.	2.6	65
21	Study of the air-sea interactions at the mesoscale: the SEMAPHORE experiment. <i>Annales Geophysicae</i> , 1996, 14, 986-1015.	1.6	61
22	Seasonal variability of nutrient concentrations in the Mediterranean Sea: Contribution of BioArgo floats. <i>Journal of Geophysical Research: Oceans</i> , 2015, 120, 8528-8550.	2.6	59
23	Observing mixed layer depth, nitrate and chlorophyll concentrations in the northwestern Mediterranean: A combined satellite and NO <sub>3</sub> profiling floats experiment. <i>Geophysical Research Letters</i> , 2014, 41, 6443-6451.	4.0	57
24	A Novel Near-Real-Time Quality-Control Procedure for Radiometric Profiles Measured by Bio-Argo Floats: Protocols and Performances. <i>Journal of Atmospheric and Oceanic Technology</i> , 2016, 33, 937-951.	1.3	57
25	Physical and Biogeochemical Controls of the Phytoplankton Blooms in North Western Mediterranean Sea: A Multiplatform Approach Over a Complete Annual Cycle (2012–2013 DEWEX Experiment). <i>Journal of Geophysical Research: Oceans</i> , 2017, 122, 9999-10019.	2.6	56
26	Microbial food webs and metabolic state across oligotrophic waters of the Mediterranean Sea during summer. <i>Biogeosciences</i> , 2011, 8, 1839-1852.	3.3	55
27	Abrupt warming and salinification of intermediate waters interplays with decline of deep convection in the Northwestern Mediterranean Sea. <i>Scientific Reports</i> , 2020, 10, 20923.	3.3	55
28	Phytoplankton photoadaptation related to some frontal physical processes. <i>Journal of Marine Systems</i> , 1994, 5, 251-265.	2.1	54
29	Unexpected winter phytoplankton blooms in the North Atlantic subpolar gyre. <i>Nature Geoscience</i> , 2017, 10, 836-839.	12.9	52
30	High resolution modeling of dense water formation in the northwestern Mediterranean during winter 2012–2013: Processes and budget. <i>Journal of Geophysical Research: Oceans</i> , 2016, 121, 5367-5392.	2.6	46
31	Distribution of pigments and fatty acid biomarkers in particulate matter from the frontal structure of the Alboran Sea (SW Mediterranean Sea). <i>Marine Chemistry</i> , 2004, 88, 103-125.	2.3	44
32	Distribution of sterol and fatty alcohol biomarkers in particulate matter from the frontal structure of the Alboran Sea (S.W. Mediterranean Sea). <i>Marine Chemistry</i> , 2003, 82, 161-183.	2.3	43
33	Effects of frontal processes on marine aggregate dynamics and fluxes: An interannual study in a permanent geostrophic front (NW Mediterranean). <i>Journal of Marine Systems</i> , 2008, 70, 1-20.	2.1	43
34	Continuous monitoring of surface optical properties across a geostrophic front: Biogeochemical inferences. <i>Limnology and Oceanography</i> , 2000, 45, 309-321.	3.1	42
35	Mesoscale distribution of zooplankton biomass in the northeast Atlantic Ocean determined with an Optical Plankton Counter: Relationships with environmental structures. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2009, 56, 1742-1756.	1.4	42
36	Two databases derived from BGC-Argo float measurements for marine biogeochemical and bio-optical applications. <i>Earth System Science Data</i> , 2017, 9, 861-880.	9.9	42

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37	Surface fluxes in the North Atlantic current during CATCH/FASTEX. Quarterly Journal of the Royal Meteorological Society, 1999, 125, 3563-3599.	2.7	40
38	Inferring phytoplankton carbon and eco-physiological rates from diel cycles of spectral particulate beam-attenuation coefficient. Biogeosciences, 2011, 8, 3423-3439.	3.3	40
39	A submesoscale coherent vortex in the Ligurian Sea: From dynamical barriers to biological implications. Journal of Geophysical Research: Oceans, 2017, 122, 6196-6217.	2.6	39
40	Influence of anticyclonic eddies on the Biogeochemistry from the Oligotrophic to the Ultraoligotrophic Mediterranean (BOUM cruise). Biogeosciences, 2012, 9, 3827-3855.	3.3	39
41	Gradients of phytoplankton abundance, composition and photosynthetic pigments across the Almeria-Oran front (SW Mediterranean Sea). Journal of Marine Systems, 1994, 5, 223-233.	2.1	38
42	Phytoplankton biomass cycles in the North Atlantic subpolar gyre: A similar mechanism for two different blooms in the Labrador Sea. Geophysical Research Letters, 2015, 42, 5403-5410.	4.0	37
43	Vertical distribution of aggregates (>110 µm) and mesoscale activity in the northeastern Atlantic: Effects on the deep vertical export of surface carbon. Limnology and Oceanography, 2007, 52, 7-18.	3.1	36
44	Seasonal and inter-annual variations of dissolved oxygen in the northwestern Mediterranean Sea (DYFAMED site). Progress in Oceanography, 2018, 162, 187-201.	3.2	34
45	HyMeX-SOP2: The Field Campaign Dedicated to Dense Water Formation in the Northwestern Mediterranean. , 2016, 29, 196-206.		33
46	Distribution of microbial biomass, production, respiration, dissolved organic carbon and factors controlling bacterial production across a geostrophic front (Almeria-Oran, SW Mediterranean Sea). Marine Ecology - Progress Series, 2004, 269, 1-15.	1.9	33
47	Short term summer to autumn variability of dissolved lipid classes in the Ligurian sea (NW) Tj ETQq1 1 0.784314 rgrBT /Overlock 10 Tf 5	3.3	28
48	Estimating dense water volume and its evolution for the year 2012–2013 in the northwestern Mediterranean Sea: An observing system simulation experiment approach. Journal of Geophysical Research: Oceans, 2016, 121, 6696-6716.	2.6	27
49	Deep microbial communities evidenced in the Liguro-Provençal front by their ETS activity. Deep-Sea Research Part I: Oceanographic Research Papers, 1993, 40, 709-725.	1.4	26
50	Observation of oxygen ventilation into deep waters through targeted deployment of multiple Argo floats in the northwestern Mediterranean Sea in 2013. Journal of Geophysical Research: Oceans, 2017, 122, 6325-6341.	2.6	24
51	A high-resolution simulation of the ocean during the POMME experiment: Simulation results and comparison with observations. Journal of Geophysical Research, 2005, 110, .	3.3	23
52	A 1 year mesoscale simulation of the northeast Atlantic: Mixed layer heat and mass budgets during the POMME experiment. Journal of Geophysical Research, 2005, 110, .	3.3	23
53	Modeling the intense 2012-2013 dense water formation event in the northwestern Mediterranean Sea: Evaluation with an ensemble simulation approach. Journal of Geophysical Research: Oceans, 2017, 122, 1297-1324.	2.6	23
54	A numerical study of primary production related to vertical turbulent diffusion with special reference to vertical motions of the phytoplankton cells in nutrient and light fields. Journal of Marine Systems, 1994, 5, 267-295.	2.1	19

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55	Short-scale temporal variability of physical, biological and biogeochemical processes in the NW Mediterranean Sea: an introduction. <i>Biogeosciences</i> , 2009, 6, 453-461.	3.3	19
56	DMS dynamics in the most oligotrophic subtropical zones of the global ocean. <i>Biogeochemistry</i> , 2012, 110, 215-241.	3.5	19
57	A Simplified 3D Oceanic Model Assimilating Geostrophic Currents: Application to the POMME Experiment. <i>Journal of Physical Oceanography</i> , 2005, 35, 628-644.	1.7	18
58	Hydrography and biogeochemistry dedicated to the Mediterranean BGC-Argo network during a cruise with RV <i>Tethys 2</i> in May 2015. <i>Earth System Science Data</i> , 2018, 10, 627-641.	9.9	18
59	One-dimensional model of short-term dynamics of the pelagic ecosystem in the NW Mediterranean Sea: effects of wind events. <i>Journal of Marine Systems</i> , 2001, 30, 89-114.	2.1	17
60	A 1 year sea surface heat budget in the northeastern Atlantic basin during the POMME experiment: 1. Flux estimates. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	17
61	A deep-ocean nephelometer to detect bottom and intermediate nepheloid layers. <i>Deep-sea Research Part A, Oceanographic Research Papers</i> , 1992, 39, 1403-1416.	1.5	16
62	Planktonic bioluminescence measurements in the frontal zone of Almeria-Oran (Mediterranean Sea). <i>Oceanologica Acta: European Journal of Oceanology - Revue Europeene De Oceanologie</i> , 2001, 24, 239-250.	0.7	16
63	Essai de localisation et de quantification des surgences sous-marines d'un aquifère captif à porosité d'interstices: exemple de la nappe alluviale de la basse vallée du Var (Méditerranée, France). <i>Journal of Hydrology</i> , 1997, 190, 111-122.	5.4	15
64	Observation of the Circulation in the Newfoundland Basin in Winter 1997. <i>Journal of Physical Oceanography</i> , 2001, 31, 689-710.	1.7	14
65	Profiling float observation of thermohaline staircases in the western Mediterranean Sea and impact on nutrient fluxes. <i>Biogeosciences</i> , 2020, 17, 3343-3366.	3.3	14
66	The surface temperature field and dynamical structure of the Almeria-Oran front from simultaneous shipboard and satellite data. <i>Journal of Marine Systems</i> , 1994, 5, 205-222.	2.1	12
67	A high-resolution simulation of the ocean during the POMME experiment: Mesoscale variability and near surface processes. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	12
68	Morphological and chemical variability of colloids in the Almeria-Oran Front in the eastern Alboran Sea (SW Mediterranean Sea). <i>Limnology and Oceanography</i> , 2001, 46, 1347-1357.	3.1	11
69	A 1 year sea surface heat budget in the northeastern Atlantic basin during the POMME experiment: 2. Flux optimization. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	11
70	The MALINA oceanographic expedition: how do changes in ice cover, permafrost and UV radiation impact biodiversity and biogeochemical fluxes in the Arctic Ocean?. <i>Earth System Science Data</i> , 2021, 13, 1561-1592.	9.9	11
71	Preparing the New Phase of Argo: Scientific Achievements of the NAOS Project. <i>Frontiers in Marine Science</i> , 2020, 7, .	2.5	10
72	Short time-scale analysis of the NW Mediterranean ecosystem during summer-autumn transition: A 1D modelling approach. <i>Journal of Marine Systems</i> , 2011, 84, 1-17.	2.1	9

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73	A Long-Lasting Mode Water Vortex in the Northeast Atlantic Ocean. <i>Journal of Physical Oceanography</i> , 2009, 39, 536-558.	1.7	7
74	An inverse method to derive surface fluxes from the closure of oceanic heat and water budgets: Application to the northwestern Mediterranean Sea. <i>Journal of Geophysical Research: Oceans</i> , 2017, 122, 2884-2908.	2.6	7
75	Wind-Forced Submesoscale Symmetric Instability around Deep Convection in the Northwestern Mediterranean Sea. <i>Fluids</i> , 2021, 6, 123.	1.7	7
76	BCAArgo Floats Observe Nitrate Injection and Spring Phytoplankton Increase in the Surface Layer of Levantine Sea (Eastern Mediterranean). <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091649.	4.0	5
77	Sources of the Levantine Intermediate Water in Winter 2019. <i>Journal of Geophysical Research: Oceans</i> , 2022, 127, .	2.6	4
78	Observations of an intense anticyclonic warm eddy in the Newfoundland Basin. <i>Geophysical Research Letters</i> , 2001, 28, 2649-2652.	4.0	0