

# Louis Prieur

## List of Publications by Year in descending order

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Version: 2024-02-01

78  
papers

7,906  
citations

94269

37  
h-index

69108

77  
g-index

80  
all docs

80  
docs citations

80  
times ranked

5260  
citing authors

#	ARTICLE	IF	CITATIONS
1	Sources of the Levantine Intermediate Water in Winter 2019. <i>Journal of Geophysical Research: Oceans</i> , 2022, 127, .	1.0	4
2	Wind-Forced Submesoscale Symmetric Instability around Deep Convection in the Northwestern Mediterranean Sea. <i>Fluids</i> , 2021, 6, 123.	0.8	7
3	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.	3.7	11
4	BGC-Argo 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.	1.5	5
5	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.	1.6	55
6	Preparing the New Phase of Argo: Scientific Achievements of the NAOS Project. <i>Frontiers in Marine Science</i> , 2020, 7, .	1.2	10
7	Profiling float observation of thermohaline staircases in the western Mediterranean Sea and impact on nutrient fluxes. <i>Biogeosciences</i> , 2020, 17, 3343-3366.	1.3	14
8	Seasonal and inter-annual variations of dissolved oxygen in the northwestern Mediterranean Sea (DYFAMED site). <i>Progress in Oceanography</i> , 2018, 162, 187-201.	1.5	34
9	Multiscale Observations of Deep Convection in the Northwestern Mediterranean Sea During Winter 2012-2013 Using Multiple Platforms. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 1745-1776.	1.0	71
10	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.	3.7	18
11	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.	1.0	56
12	A submesoscale coherent vortex in the Ligurian Sea: From dynamical barriers to biological implications. <i>Journal of Geophysical Research: Oceans</i> , 2017, 122, 6196-6217.	1.0	39
13	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.	1.0	7
14	Modeling the intense 2012-2013 dense water formation event in the northwestern Mediterranean Sea: Evaluation with an ensemble simulation approach. <i>Journal of Geophysical Research: Oceans</i> , 2017, 122, 1297-1324.	1.0	23
15	Unexpected winter phytoplankton blooms in the North Atlantic subpolar gyre. <i>Nature Geoscience</i> , 2017, 10, 836-839.	5.4	52
16	Observation of oxygen ventilation into deep waters through targeted deployment of multiple A&O <sub>2</sub> floats in the northwestern Mediterranean Sea in 2013. <i>Journal of Geophysical Research: Oceans</i> , 2017, 122, 6325-6341.	1.0	24
17	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.	3.7	42
18	HyMeX-SOP2: The Field Campaign Dedicated to Dense Water Formation in the Northwestern Mediterranean. , 2016, 29, 196-206.		33

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19	Estimating dense water volume and its evolution for the year 2012â€“2013 in the northwestern Mediterranean Sea: An observing system simulation experiment approach. <i>Journal of Geophysical Research: Oceans</i> , 2016, 121, 6696-6716.	1.0	27
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.	1.0	65
21	High resolution modeling of dense water formation in the northwestern Mediterranean during winter 2012â€“2013: Processes and budget. <i>Journal of Geophysical Research: Oceans</i> , 2016, 121, 5367-5392.	1.0	46
22	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.	0.5	57
23	Seasonal variability of nutrient concentrations in the Mediterranean Sea: Contribution of Bio-Argo floats. <i>Journal of Geophysical Research: Oceans</i> , 2015, 120, 8528-8550.	1.0	59
24	Phytoplankton biomass cycles in the North Atlantic subpolar gyre: A similar mechanism for two different blooms in the Labrador Sea. <i>Geophysical Research Letters</i> , 2015, 42, 5403-5410.	1.5	37
25	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.	1.0	80
26	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.	1.5	57
27	Enhancing the comprehension of mixed layer depth control on the Mediterranean phytoplankton phenology. <i>Journal of Geophysical Research: Oceans</i> , 2013, 118, 3416-3430.	1.0	65
28	DMS dynamics in the most oligotrophic subtropical zones of the global ocean. <i>Biogeochemistry</i> , 2012, 110, 215-241.	1.7	19
29	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.	1.3	132
30	Introduction to the Biogeochemistry from the Oligotrophic to the Ultraoligotrophic Mediterranean (BOUM) experiment. <i>Biogeosciences</i> , 2012, 9, 3817-3825.	1.3	74
31	Influence of anticyclonic eddies on the Biogeochemistry from the Oligotrophic to the Ultraoligotrophic Mediterranean (BOUM cruise). <i>Biogeosciences</i> , 2012, 9, 3827-3855.	1.3	39
32	Microbial food webs and metabolic state across oligotrophic waters of the Mediterranean Sea during summer. <i>Biogeosciences</i> , 2011, 8, 1839-1852.	1.3	55
33	Inferring phytoplankton carbon and eco-physiological rates from diel cycles of spectral particulate beam-attenuation coefficient. <i>Biogeosciences</i> , 2011, 8, 3423-3439.	1.3	40
34	Integrated survey of elemental stoichiometry (C, N, P) from the western to eastern Mediterranean Sea. <i>Biogeosciences</i> , 2011, 8, 883-899.	1.3	178
35	Short time-scale analysis of the NW Mediterranean ecosystem during summerâ€“autumn transition: A 1D modelling approach. <i>Journal of Marine Systems</i> , 2011, 84, 1-17.	0.9	9
36	Marine ecosystemsâ€™ responses to climatic and anthropogenic forcings in the Mediterranean. <i>Progress in Oceanography</i> , 2011, 91, 97-166.	1.5	385

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37	Short term summer to autumn variability of dissolved lipid classes in the Ligurian sea (NW) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50	1.3	28
38	Short-scale temporal variability of physical, biological and biogeochemical processes in the NW Mediterranean Sea: an introduction. Biogeosciences, 2009, 6, 453-461.	1.3	19
39	A Long-Lasting Mode Water Vortex in the Northeast Atlantic Ocean. Journal of Physical Oceanography, 2009, 39, 536-558.	0.7	7
40	Mesoscale distribution of zooplankton biomass in the northeast Atlantic Ocean determined with an Optical Plankton Counter: Relationships with environmental structures. Deep-Sea Research Part I: Oceanographic Research Papers, 2009, 56, 1742-1756.	0.6	42
41	Effects of frontal processes on marine aggregate dynamics and fluxes: An interannual study in a permanent geostrophic front (NW Mediterranean). Journal of Marine Systems, 2008, 70, 1-20.	0.9	43
42	Submesoscale physicalâ€biogeochemical coupling across the Ligurian current (northwestern) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 542	1.6	101
43	Vertical distribution of aggregates (>110 Åµm) and mesoscale activity in the northeastern Atlantic: Effects on the deep vertical export of surface carbon. Limnology and Oceanography, 2007, 52, 7-18.	1.6	36
44	A high-resolution simulation of the ocean during the POMME experiment: Mesoscale variability and near surface processes. Journal of Geophysical Research, 2007, 112, .	3.3	12
45	A Simplified 3D Oceanic Model Assimilating Geostrophic Currents: Application to the POMME Experiment. Journal of Physical Oceanography, 2005, 35, 628-644.	0.7	18
46	A 1 year sea surface heat budget in the northeastern Atlantic basin during the POMME experiment: 1. Flux estimates. Journal of Geophysical Research, 2005, 110, .	3.3	17
47	A 1 year sea surface heat budget in the northeastern Atlantic basin during the POMME experiment: 2. Flux optimization. Journal of Geophysical Research, 2005, 110, .	3.3	11
48	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
49	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
50	Distribution of pigments and fatty acid biomarkers in particulate matter from the frontal structure of the Alboran Sea (SW Mediterranean Sea). Marine Chemistry, 2004, 88, 103-125.	0.9	44
51	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.	0.9	33
52	Distribution of sterol and fatty alcohol biomarkers in particulate matter from the frontal structure of the Alboran Sea (S.W. Mediterranean Sea). Marine Chemistry, 2003, 82, 161-183.	0.9	43
53	Observations of an intense anticyclonic warm eddy in the Newfoundland Basin. Geophysical Research Letters, 2001, 28, 2649-2652.	1.5	0
54	Morphological and chemical variability of colloids in the Almeria-Oran Front in the eastern Alboran Sea (SW Mediterranean Sea). Limnology and Oceanography, 2001, 46, 1347-1357.	1.6	11

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55	Observation of the Circulation in the Newfoundland Basin in Winter 1997. <i>Journal of Physical Oceanography</i> , 2001, 31, 689-710.	0.7	14
56	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
57	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.	0.9	17
58	Continuous monitoring of surface optical properties across a geostrophic front: Biogeochemical inferences. <i>Limnology and Oceanography</i> , 2000, 45, 309-321.	1.6	42
59	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.	0.6	108
60	Surface fluxes in the North Atlantic current during CATCH/FASTEX. <i>Quarterly Journal of the Royal Meteorological Society</i> , 1999, 125, 3563-3599.	1.0	40
61	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.	2.3	15
62	Study of the air-sea interactions at the mesoscale: the SEMAPHORE experiment. <i>Annales Geophysicae</i> , 1996, 14, 986-1015.	0.6	61
63	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.	0.6	101
64	Gradients of phytoplankton abundance, composition and photosynthetic pigments across the Almeria-Oran front (SW Mediterranean Sea). <i>Journal of Marine Systems</i> , 1994, 5, 223-233.	0.9	38
65	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. <i>Journal of Marine Systems</i> , 1994, 5, 267-295.	0.9	19
66	Almofront-1 (April-May 1991): an interdisciplinary study of the Almeria-Oran geostrophic front, SW Mediterranean Sea. <i>Journal of Marine Systems</i> , 1994, 5, 187-203.	0.9	75
67	Phytoplankton photoadaptation related to some frontal physical processes. <i>Journal of Marine Systems</i> , 1994, 5, 251-265.	0.9	54
68	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.	0.9	65
69	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.	0.9	12
70	Phytoplankton dynamics associated with a geostrophic front: Ecological and biogeochemical implications. <i>Journal of Marine Research</i> , 1994, 52, 711-742.	0.3	135
71	Deep microbial communities evidenced in the Liguro-Provençal front by their ETS activity. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 1993, 40, 709-725.	0.6	26
72	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.	1.6	16

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73	Daily and seasonal variations in the spatial distribution of zooplankton populations in relation to the physical structure in the Ligurian Sea Front. Journal of Marine Research, 1987, 45, 133-173.	0.3	146
74	Variations in the spectral values of specific absorption of phytoplankton. Limnology and Oceanography, 1987, 32, 403-415.	1.6	255
75	Optical efficiency factors of some phytoplankters <sup>1</sup> . Limnology and Oceanography, 1983, 28, 816-832.	1.6	290
76	An optical classification of coastal and oceanic waters based on the specific spectral absorption curves of phytoplankton pigments, dissolved organic matter, and other particulate materials <sup>1</sup> . Limnology and Oceanography, 1981, 26, 671-689.	1.6	688
77	Absorption by dissolved organic matter of the sea (yellow substance) in the UV and visible domains <sup>1</sup> . Limnology and Oceanography, 1981, 26, 43-53.	1.6	1,258
78	Analysis of variations in ocean color <sup>1</sup> . Limnology and Oceanography, 1977, 22, 709-722.	1.6	1,946