

Louis Prieur

List of Publications by Year in descending order

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Version: 2024-02-01

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 | Sources of the Levantine Intermediate Water in Winter 2019. <i>Journal of Geophysical Research: Oceans</i> , 2022, 127, . | 2.6 | 4 |
| 2 | Wind-Forced Submesoscale Symmetric Instability around Deep Convection in the Northwestern Mediterranean Sea. <i>Fluids</i> , 2021, 6, 123. | 1.7 | 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. | 9.9 | 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. | 4.0 | 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. | 3.3 | 55 |
| 6 | Preparing the New Phase of Argo: Scientific Achievements of the NAOS Project. <i>Frontiers in Marine Science</i> , 2020, 7, . | 2.5 | 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. | 3.3 | 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. | 3.2 | 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. | 2.6 | 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. | 9.9 | 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. | 2.6 | 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. | 2.6 | 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. | 2.6 | 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. | 2.6 | 23 |
| 15 | Unexpected winter phytoplankton blooms in the North Atlantic subpolar gyre. <i>Nature Geoscience</i> , 2017, 10, 836-839. | 12.9 | 52 |
| 16 | Observation of oxygen ventilation into deep waters through targeted deployment of multiple A&O ₂ floats in the northwestern Mediterranean Sea in 2013. <i>Journal of Geophysical Research: Oceans</i> , 2017, 122, 6325-6341. | 2.6 | 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. | 9.9 | 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. | 2.6 | 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. | 2.6 | 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. | 2.6 | 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. | 1.3 | 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. | 2.6 | 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. | 4.0 | 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. | 2.6 | 80 |
| 26 | Observing mixed layer depth, nitrate and chlorophyll concentrations in the northwestern Mediterranean: A combined satellite and NO ₃ profiling floats experiment. <i>Geophysical Research Letters</i> , 2014, 41, 6443-6451. | 4.0 | 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. | 2.6 | 65 |
| 28 | DMS dynamics in the most oligotrophic subtropical zones of the global ocean. <i>Biogeochemistry</i> , 2012, 110, 215-241. | 3.5 | 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. | 3.3 | 132 |
| 30 | Introduction to the Biogeochemistry from the Oligotrophic to the Ultraoligotrophic Mediterranean (BOUM) experiment. <i>Biogeosciences</i> , 2012, 9, 3817-3825. | 3.3 | 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. | 3.3 | 39 |
| 32 | Microbial food webs and metabolic state across oligotrophic waters of the Mediterranean Sea during summer. <i>Biogeosciences</i> , 2011, 8, 1839-1852. | 3.3 | 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. | 3.3 | 40 |
| 34 | Integrated survey of elemental stoichiometry (C, N, P) from the western to eastern Mediterranean Sea. <i>Biogeosciences</i> , 2011, 8, 883-899. | 3.3 | 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. | 2.1 | 9 |
| 36 | Marine ecosystemsâ€™ responses to climatic and anthropogenic forcings in the Mediterranean. <i>Progress in Oceanography</i> , 2011, 91, 97-166. | 3.2 | 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 | 3.3 | 28 |
| 38 | Short-scale temporal variability of physical, biological and biogeochemical processes in the NW Mediterranean Sea: an introduction. Biogeosciences, 2009, 6, 453-461. | 3.3 | 19 |
| 39 | A Long-Lasting Mode Water Vortex in the Northeast Atlantic Ocean. Journal of Physical Oceanography, 2009, 39, 536-558. | 1.7 | 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. | 1.4 | 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. | 2.1 | 43 |
| 42 | Submesoscale physicalâ€biogeochemical coupling across the Ligurian current (northwestern) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 542 | 3.1 | 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. | 3.1 | 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. | 1.7 | 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. | 2.3 | 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. | 1.9 | 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. | 2.3 | 43 |
| 53 | Observations of an intense anticyclonic warm eddy in the Newfoundland Basin. Geophysical Research Letters, 2001, 28, 2649-2652. | 4.0 | 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. | 3.1 | 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. | 1.7 | 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. | 2.1 | 17 |
| 58 | Continuous monitoring of surface optical properties across a geostrophic front: Biogeochemical inferences. <i>Limnology and Oceanography</i> , 2000, 45, 309-321. | 3.1 | 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. | 1.4 | 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. | 2.7 | 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. | 5.4 | 15 |
| 62 | Study of the air-sea interactions at the mesoscale: the SEMAPHORE experiment. <i>Annales Geophysicae</i> , 1996, 14, 986-1015. | 1.6 | 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. | 1.4 | 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. | 2.1 | 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. | 2.1 | 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. | 2.1 | 75 |
| 67 | Phytoplankton photoadaptation related to some frontal physical processes. <i>Journal of Marine Systems</i> , 1994, 5, 251-265. | 2.1 | 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. | 2.1 | 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. | 2.1 | 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. | 1.4 | 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. | 1.5 | 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. | 3.1 | 255 |
| 75 | Optical efficiency factors of some phytoplankters ¹ . Limnology and Oceanography, 1983, 28, 816-832. | 3.1 | 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 ¹ . Limnology and Oceanography, 1981, 26, 671-689. | 3.1 | 688 |
| 77 | Absorption by dissolved organic matter of the sea (yellow substance) in the UV and visible domains ¹ . Limnology and Oceanography, 1981, 26, 43-53. | 3.1 | 1,258 |
| 78 | Analysis of variations in ocean color ¹ . Limnology and Oceanography, 1977, 22, 709-722. | 3.1 | 1,946 |