

P-M Poulain

List of Publications by Year in descending order

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113
papers

5,554
citations

71102

41
h-index

91884

69
g-index

126
all docs

126
docs citations

126
times ranked

4867
citing authors

#	ARTICLE	IF	CITATIONS
1	Fifteen years of ocean observations with the global Argo array. <i>Nature Climate Change</i> , 2016, 6, 145-153.	18.8	380
2	Quality Control and Interpolations of WOCE-TOGA Drifter Data. <i>Journal of Atmospheric and Oceanic Technology</i> , 1996, 13, 900-909.	1.3	318
3	Adriatic Sea surface circulation as derived from drifter data between 1990 and 1999. <i>Journal of Marine Systems</i> , 2001, 29, 3-32.	2.1	293
4	Near-surface circulation of the Nordic seas as measured by Lagrangian drifters. <i>Journal of Geophysical Research</i> , 1996, 101, 18237-18258.	3.3	247
5	Physical forcing and physical/biochemical variability of the Mediterranean Sea: a review of unresolved issues and directions for future research. <i>Ocean Science</i> , 2014, 10, 281-322.	3.4	154
6	Surface Geostrophic Circulation of the Mediterranean Sea Derived from Drifter and Satellite Altimeter Data. <i>Journal of Physical Oceanography</i> , 2012, 42, 973-990.	1.7	151
7	A Mean Dynamic Topography of the Mediterranean Sea computed from altimetric data, in-situ measurements and a general circulation model. <i>Journal of Marine Systems</i> , 2007, 65, 484-508.	2.1	139
8	Wind Effects on Drogued and Undrogued Drifters in the Eastern Mediterranean. <i>Journal of Atmospheric and Oceanic Technology</i> , 2009, 26, 1144-1156.	1.3	124
9	Statistical Analysis of the Surface Circulation in the California Current System Using Satellite-Tracked Drifters. <i>Journal of Physical Oceanography</i> , 1989, 19, 1588-1603.	1.7	119
10	Argo Data 1999â€“2019: Two Million Temperature-Salinity Profiles and Subsurface Velocity Observations From a Global Array of Profiling Floats. <i>Frontiers in Marine Science</i> , 2020, 7, .	2.5	117
11	On the relationship between the decadal oscillations of the northern Ionian Sea and the salinity distributions in the eastern Mediterranean. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	106
12	Surface circulation in the central Mediterranean Sea as deduced from Lagrangian drifters in the 1990s. <i>Continental Shelf Research</i> , 2007, 27, 981-1001.	1.8	103
13	Observations of Black Sea mesoscale eddies and associated horizontal mixing. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	101
14	Drifter observations of surface circulation in the Adriatic Sea between December 1994 and March 1996. <i>Journal of Marine Systems</i> , 1999, 20, 231-253.	2.1	99
15	Transport Properties in the Adriatic Sea as Deduced from Drifter Data. <i>Journal of Physical Oceanography</i> , 2000, 30, 2055-2071.	1.7	98
16	Copernicus Marine Service Ocean State Report. <i>Journal of Operational Oceanography</i> , 2018, 11, S1-S142.	1.2	96
17	The Copernicus Marine Environment Monitoring Service Ocean State Report. <i>Journal of Operational Oceanography</i> , 2016, 9, s235-s320.	1.2	86
18	Computation of a new mean dynamic topography for the Mediterranean Sea from model outputs, altimeter measurements and oceanographic in situ data. <i>Ocean Science</i> , 2014, 10, 731-744.	3.4	83

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19	Eulerian and Lagrangian Statistics from Surface Drifters and a High-Resolution POP Simulation in the North Atlantic. <i>Journal of Physical Oceanography</i> , 2002, 32, 2472-2491.	1.7	80
20	Extreme winter 2012 in the Adriatic: an example of climatic effect on the BiOS rhythm. <i>Ocean Science</i> , 2014, 10, 513-522.	3.4	77
21	MedArgo: a drifting profiler program in the Mediterranean Sea. <i>Ocean Science</i> , 2007, 3, 379-395.	3.4	76
22	Northern Adriatic response to a wintertime bora wind event. <i>Eos</i> , 2005, 86, 157.	0.1	69
23	A Multiplatform Experiment to Unravel Meso- and Submesoscale Processes in an Intense Front (AlborEx). <i>Frontiers in Marine Science</i> , 2017, 4, .	2.5	68
24	Effects of winter convection on the deep layer of the Southern Adriatic Sea in 2012. <i>Journal of Geophysical Research: Oceans</i> , 2013, 118, 6064-6075.	2.6	66
25	On the surface circulation of the Levantine sub-basin derived from Lagrangian drifters and satellite altimetry data. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2012, 65, 46-58.	1.4	65
26	Transport properties in small-scale coastal flows: relative dispersion from VHF radar measurements in the Gulf of La Spezia. <i>Ocean Dynamics</i> , 2010, 60, 861-882.	2.2	61
27	Targeted Lagrangian sampling of submesoscale dispersion at a coastal frontal zone. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	59
28	Improvement of coastal and mesoscale observation from space: Application to the northwestern Mediterranean Sea. <i>Geophysical Research Letters</i> , 2013, 40, 2148-2153.	4.0	58
29	Super-ensemble techniques: Application to surface drift prediction. <i>Progress in Oceanography</i> , 2009, 82, 149-167.	3.2	57
30	Lagrangian and Eulerian observations of the surface circulation in the Tyrrhenian Sea. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	57
31	Toward an integrated HF radar network in the Mediterranean Sea to improve search and rescue and oil spill response: the TOSCA project experience. <i>Journal of Operational Oceanography</i> , 2015, 8, 95-107.	1.2	56
32	Eulerian current measurements in the Strait of Otranto and in the Southern Adriatic. <i>Journal of Marine Systems</i> , 1999, 20, 255-278.	2.1	51
33	Global in situ Observations of Essential Climate and Ocean Variables at the Air-Sea Interface. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	49
34	Surface circulation in the Eastern Mediterranean using drifters (2005-2007). <i>Ocean Science</i> , 2009, 5, 559-574.	3.4	48
35	Eddy diffusivity derived from drifter data for dispersion model applications. <i>Ocean Dynamics</i> , 2012, 62, 1381-1398.	2.2	48
36	The Mediterranean Sea heat and mass budgets: Estimates, uncertainties and perspectives. <i>Progress in Oceanography</i> , 2017, 156, 174-208.	3.2	48

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37	Effects of Oceanic Mesoscale and Submesoscale Frontal Processes on the Vertical Transport of Phytoplankton. <i>Journal of Geophysical Research: Oceans</i> , 2019, 124, 5999-6014.	2.6	48
38	Challenges for Sustained Observing and Forecasting Systems in the Mediterranean Sea. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	47
39	Copernicus Marine Service Ocean State Report, Issue 4. <i>Journal of Operational Oceanography</i> , 2020, 13, S1-S172.	1.2	47
40	Dynamics of the circulation in the Sea of Marmara: numerical modeling experiments and observations from the Turkish straits system experiment. <i>Ocean Dynamics</i> , 2012, 62, 139-159.	2.2	44
41	A small-scale oceanic eddy off the coast of West Africa studied by multi-sensor satellite and surface drifter data. <i>Remote Sensing of Environment</i> , 2013, 129, 132-143.	11.0	44
42	Sediment Dynamics in the Adriatic Sea Investigated with Coupled Models. <i>Oceanography</i> , 2004, 17, 58-69.	1.0	43
43	Prediction of particle trajectories in the Adriatic Sea using Lagrangian data assimilation. <i>Journal of Marine Systems</i> , 2001, 29, 33-50.	2.1	42
44	Northern Adriatic Sea surface circulation and temperature/pigment fields in September and October 1997. <i>Journal of Marine Systems</i> , 2001, 29, 51-67.	2.1	41
45	Statistical description of the Black Sea near-surface circulation using drifters in 1999â€“2003. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2005, 52, 2250-2274.	1.4	41
46	Mediterranean intermediate circulation estimated from Argo data in 2003â€“2010. <i>Ocean Science</i> , 2010, 6, 331-343.	3.4	41
47	Tidal currents in the northwestern Adriatic: High-frequency radio observations and numerical model predictions. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	39
48	Copernicus Marine Service Ocean State Report, Issue 5. <i>Journal of Operational Oceanography</i> , 2021, 14, 1-185.	1.2	39
49	Model-based directed drifter launches in the Adriatic Sea: Results from the DART experiment. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	37
50	Decadal variations of circulation in the Central Mediterranean and its interactions with mesoscale gyres. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2019, 164, 14-24.	1.4	37
51	Assimilation of Argo float positions in the north western Mediterranean Sea and impact on ocean circulation simulations. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	36
52	Surface drifter derived circulation in the northern and middle Adriatic Sea: Response to wind regime and season. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	33
53	MODIS chlorophyll variability in the northern Adriatic Sea and relationship with forcing parameters. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	33
54	Observed and modeled surface Lagrangian transport between coastal regions in the Adriatic Sea with implications for marine protected areas. <i>Continental Shelf Research</i> , 2016, 118, 23-48.	1.8	32

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55	Validation of HF Radar-Derived Currents in the Gulf of Naples With Lagrangian Data. IEEE Geoscience and Remote Sensing Letters, 2016, 13, 1452-1456.	3.1	31
56	Synoptic three-dimensional circulation in an onshore-flowing filament of the California Current. Deep-sea Research Part A, Oceanographic Research Papers, 1989, 36, 385-405.	1.5	30
57	Automated estimate of fish abundance through the autonomous imaging device GUARD1. Measurement: Journal of the International Measurement Confederation, 2018, 126, 72-75.	5.0	30
58	Analysis of velocity field in the eastern Black Sea from satellite data during the Black Sea '99 experiment. Journal of Geophysical Research, 2002, 107, 13-1.	3.3	28
59	Unusual upwelling event and current reversal off the Italian Adriatic coast in summer 2003. Geophysical Research Letters, 2004, 31, n/a-n/a.	4.0	27
60	Understanding the Dynamics of the Oxidic-Anoxic Interface in the Black Sea. Geophysical Research Letters, 2018, 45, 864-871.	4.0	27
61	Linking sardine recruitment in coastal areas to ocean currents using surface drifters and HF radar: a case study in the Gulf of Manfredonia, Adriatic Sea. Ocean Science, 2018, 14, 1461-1482.	3.4	27
62	On the Variability of the Circulation and Water Mass Properties in the Eastern Levantine Sea between September 2016 and August 2017. Water (Switzerland), 2019, 11, 1741.	2.7	26
63	Direct measurements of World Ocean tidal currents with surface drifters. Journal of Geophysical Research: Oceans, 2015, 120, 6986-7003.	2.6	25
64	Validation of HF radar sea surface currents in the Malta-Sicily Channel. Remote Sensing of Environment, 2019, 225, 65-76.	11.0	25
65	Frontal Convergence and Vertical Velocity Measured by Drifters in the Alboran Sea. Journal of Geophysical Research: Oceans, 2021, 126, e2020JC016614.	2.6	25
66	Wintertime dynamics in the coastal northeastern Adriatic Sea: the NAdEx 2015 experiment. Ocean Science, 2018, 14, 237-258.	3.4	22
67	Levantine Intermediate and Levantine Deep Water Formation: An Argo Float Study from 2001 to 2017. Water (Switzerland), 2019, 11, 1781.	2.7	21
68	Tidal currents in the Adriatic as measured by surface drifters. Journal of Geophysical Research: Oceans, 2013, 118, 1434-1444.	2.6	20
69	Transit and residence times in the Adriatic Sea surface as derived from drifter data and Lagrangian numerical simulations. Ocean Science, 2013, 9, 713-720.	3.4	20
70	New Insights of the Sicily Channel and Southern Tyrrhenian Sea Variability. Water (Switzerland), 2019, 11, 1355.	2.7	20
71	Lagrangian turbulence in the Adriatic Sea as computed from drifter data: Effects of inhomogeneity and nonstationarity. Journal of Geophysical Research, 2004, 109, .	3.3	19
72	Climatic, Decadal, and Interannual Variability in the Upper Layer of the Mediterranean Sea Using Remotely Sensed and In-Situ Data. Remote Sensing, 2022, 14, 1322.	4.0	19

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73	On the assessment of Argo float trajectory assimilation in the Mediterranean Forecasting System. <i>Ocean Dynamics</i> , 2011, 61, 1475-1490.	2.2	18
74	Historical Drifter Data and Statistical Prediction of Particle Motion: A Case Study in the Central Adriatic Sea. <i>Journal of Atmospheric and Oceanic Technology</i> , 2007, 24, 235-254.	1.3	17
75	Current measurements in the Strait of Otranto reveal unforeseen aspects of its hydrodynamics. <i>Eos</i> , 1996, 77, 345.	0.1	16
76	Geostrophic currents and kinetic energies in the Black Sea estimated from merged drifter and satellite altimetry data. <i>Ocean Science</i> , 2014, 10, 155-165.	3.4	16
77	Detecting the drogue presence of SVP drifters from wind slippage in the Mediterranean Sea. <i>Measurement: Journal of the International Measurement Confederation</i> , 2018, 125, 447-453.	5.0	16
78	Assessment of the Water-Following Capabilities of CODE Drifters Based on Direct Relative Flow Measurements. <i>Journal of Atmospheric and Oceanic Technology</i> , 2019, 36, 621-633.	1.3	16
79	Variational analysis of drifter positions and model outputs for the reconstruction of surface currents in the central Adriatic during fall 2002. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	15
80	Lagrangian analysis of satellite-derived currents: Application to the North Western Mediterranean coastal dynamics. <i>Advances in Space Research</i> , 2014, 53, 788-801.	2.6	15
81	On the Circulation and Thermohaline Properties of the Eastern Mediterranean Sea. <i>Frontiers in Marine Science</i> , 2021, 8, .	2.5	15
82	Estimation of Surface Currents in the Adriatic Sea from Sequential Infrared Satellite Images. <i>Journal of Atmospheric and Oceanic Technology</i> , 2008, 25, 271-285.	1.3	14
83	Near-surface thermal structure and surface diurnal warming in the Adriatic Sea using satellite and drifter data. <i>Remote Sensing of Environment</i> , 2006, 101, 194-211.	11.0	13
84	Spatial and temporal variability of the sea surface temperature in the Gulf of Trieste between January 2000 and December 2006. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	13
85	Variational assimilation of Lagrangian trajectories in the Mediterranean ocean Forecasting System. <i>Ocean Science</i> , 2012, 8, 249-259.	3.4	13
86	Frontal dynamics boost primary production in the summer stratified Mediterranean sea. <i>Ocean Dynamics</i> , 2017, 67, 767-782.	2.2	13
87	Investigating transport pathways in the ocean. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2013, 85, 81-95.	1.4	12
88	Investigating the Formation of Submesoscale Structures along Mesoscale Fronts and Estimating Kinematic Quantities Using Lagrangian Drifters. <i>Fluids</i> , 2020, 5, 159.	1.7	12
89	On the surface circulation of the Marmara Sea as deduced from drifters. <i>Turkish Journal of Earth Sciences</i> , 2013, 22, 919-930.	1.0	11
90	Characterization of the Atlantic Water and Levantine Intermediate Water in the Mediterranean Sea using 20 years of Argo data. <i>Ocean Science</i> , 2022, 18, 129-142.	3.4	11

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91	Modeling the trajectories of satellite-tracked drifters in the Adriatic Sea during a summertime bora event. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	10
92	18 Review of the Circulation and Characteristics of Intermediate Water Masses of the Mediterranean: Implications for Cold-Water Coral Habitats. <i>Coral Reefs of the World</i> , 2019, , 195-211.	0.7	10
93	Submesoscale Vorticity and Divergence in the Alboran Sea: Scale and Depth Dependence. <i>Frontiers in Marine Science</i> , 2021, 8, .	2.5	10
94	Introduction to special section: Recent Advances in Oceanography and Marine Meteorology of the Adriatic Sea. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	9
95	Mapping Mediterranean tidal currents with surface drifters. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2018, 138, 22-33.	1.4	9
96	The Tyrrhenian Intermediate Water (TIW): Characterization and formation mechanisms. <i>Progress in Oceanography</i> , 2019, 170, 53-68.	3.2	9
97	Spreading of Lagrangian Particles in the Black Sea: A Comparison between Drifters and a High-Resolution Ocean Model. <i>Remote Sensing</i> , 2021, 13, 2603.	4.0	9
98	Response of the Pacific Sector of the Southern Ocean to Wind Stress Variability From 1995 to 2017. <i>Journal of Geophysical Research: Oceans</i> , 2020, 125, e2019JC015696.	2.6	7
99	On the dynamics in the southeastern Ligurian Sea in summer 2010. <i>Continental Shelf Research</i> , 2020, 196, 104083.	1.8	7
100	The AlborEX dataset: sampling of sub-mesoscale features in the Alboran Sea. <i>Earth System Science Data</i> , 2019, 11, 129-145.	9.9	7
101	Comparing the Currents Measured by CARTHE, CODE and SVP Drifters as a Function of Wind and Wave Conditions in the Southwestern Mediterranean Sea. <i>Sensors</i> , 2022, 22, 353.	3.8	7
102	On the Structure and Kinematics of an Algerian Eddy in the Southwestern Mediterranean Sea. <i>Remote Sensing</i> , 2021, 13, 3039.	4.0	6
103	Influence of Dardanelles outflow induced thermal fronts and winds on drifter trajectories in the Aegean Sea. <i>Mediterranean Marine Science</i> , 2014, 15, 239.	1.6	6
104	Analysis of the Surface Dispersion in the Mediterranean Sub-Basins. <i>Frontiers in Marine Science</i> , 2020, 7, .	2.5	5
105	Multi-Platform, High-Resolution Study of a Complex Coastal System: The TOSCA Experiment in the Gulf of Trieste. <i>Journal of Marine Science and Engineering</i> , 2021, 9, 469.	2.6	5
106	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
107	Remote Oceanographic Instrumentation Integrated in a GRID Environment. <i>Computational Methods in Science and Technology</i> , 2009, 15, 49-55.	0.3	5
108	Measurements of water-mass properties with a glider in the South-western Adriatic Sea. <i>Journal of Operational Oceanography</i> , 2016, 9, s3-s9.	1.2	4

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109	Sources of the Levantine Intermediate Water in Winter 2019. <i>Journal of Geophysical Research: Oceans</i> , 2022, 127, .	2.6	4
110	Modelling surface currents in the Eastern Levantine Mediterranean using surface drifters and satellite altimetry. <i>Ocean Modelling</i> , 2016, 104, 1-14.	2.4	3
111	Preliminary deployment of Grid-assisted oceanographic applications. <i>Advances in Geosciences</i> , 0, 28, 39-45.	12.0	3
112	31st International Liège Colloquium on Ocean Hydrodynamics Liège, Belgium, May 3-7, 1999. <i>Journal of Marine Systems</i> , 2001, 29, 1.	2.1	2
113	Multiparametric observation and analysis of the sea. <i>Ocean Dynamics</i> , 2011, 61, 1491-1493.	2.2	0