

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	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
2	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
3	Climatic, Decadal, and Interannual Variability in the Upper Layer of the Mediterranean Sea Using Remotely Sensed and In-Situ Data. <i>Remote Sensing</i> , 2022, 14, 1322.	4.0	19
4	Sources of the Levantine Intermediate Water in Winter 2019. <i>Journal of Geophysical Research: Oceans</i> , 2022, 127, .	2.6	4
5	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
6	Frontal Convergence and Vertical Velocity Measured by Drifters in the Alboran Sea. <i>Journal of Geophysical Research: Oceans</i> , 2021, 126, e2020JC016614.	2.6	25
7	BGCâ€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
8	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
9	Submesoscale Vorticity and Divergence in the Alboran Sea: Scale and Depth Dependence. <i>Frontiers in Marine Science</i> , 2021, 8, .	2.5	10
10	On the Circulation and Thermohaline Properties of the Eastern Mediterranean Sea. <i>Frontiers in Marine Science</i> , 2021, 8, .	2.5	15
11	Copernicus Marine Service Ocean State Report, Issue 5. <i>Journal of Operational Oceanography</i> , 2021, 14, 1-185.	1.2	39
12	On the Structure and Kinematics of an Algerian Eddy in the Southwestern Mediterranean Sea. <i>Remote Sensing</i> , 2021, 13, 3039.	4.0	6
13	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
14	Copernicus Marine Service Ocean State Report, Issue 4. <i>Journal of Operational Oceanography</i> , 2020, 13, S1-S172.	1.2	47
15	Analysis of the Surface Dispersion in the Mediterranean Sub-Basins. <i>Frontiers in Marine Science</i> , 2020, 7, .	2.5	5
16	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
17	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
18	On the dynamics in the southeastern Ligurian Sea in summer 2010. <i>Continental Shelf Research</i> , 2020, 196, 104083.	1.8	7

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19	New Insights of the Sicily Channel and Southern Tyrrhenian Sea Variability. <i>Water</i> (Switzerland), 2019, 11, 1355.	2.7	20
20	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
21	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
22	On the Variability of the Circulation and Water Mass Properties in the Eastern Levantine Sea between September 2016â€“August 2017. <i>Water</i> (Switzerland), 2019, 11, 1741.	2.7	26
23	Levantine Intermediate and Levantine Deep Water Formation: An Argo Float Study from 2001 to 2017. <i>Water</i> (Switzerland), 2019, 11, 1781.	2.7	21
24	Global in situ Observations of Essential Climate and Ocean Variables at the Airâ€“Sea Interface. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	49
25	Challenges for Sustained Observing and Forecasting Systems in the Mediterranean Sea. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	47
26	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
27	Validation of HF radar sea surface currents in the Malta-Sicily Channel. <i>Remote Sensing of Environment</i> , 2019, 225, 65-76.	11.0	25
28	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
29	The Tyrrhenian Intermediate Water (TIW): Characterization and formation mechanisms. <i>Progress in Oceanography</i> , 2019, 170, 53-68.	3.2	9
30	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
31	Understanding the Dynamics of the Oxicâ€“Anoxic Interface in the Black Sea. <i>Geophysical Research Letters</i> , 2018, 45, 864-871.	4.0	27
32	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. <i>Ocean Science</i> , 2018, 14, 1461-1482.	3.4	27
33	Copernicus Marine Service Ocean State Report. <i>Journal of Operational Oceanography</i> , 2018, 11, S1-S142.	1.2	96
34	Automated estimate of fish abundance through the autonomous imaging device GUARD1. <i>Measurement: Journal of the International Measurement Confederation</i> , 2018, 126, 72-75.	5.0	30
35	Wintertime dynamics in the coastal northeastern Adriatic Sea: the NAdEx 2015 experiment. <i>Ocean Science</i> , 2018, 14, 237-258.	3.4	22
36	Mapping Mediterranean tidal currents with surface drifters. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2018, 138, 22-33.	1.4	9

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37	Detecting the drogue presence of SVP drifters from wind slippage in the Mediterranean Sea. Measurement: Journal of the International Measurement Confederation, 2018, 125, 447-453.	5.0	16
38	The Mediterranean Sea heat and mass budgets: Estimates, uncertainties and perspectives. Progress in Oceanography, 2017, 156, 174-208.	3.2	48
39	Frontal dynamics boost primary production in the summer stratified Mediterranean sea. Ocean Dynamics, 2017, 67, 767-782.	2.2	13
40	A Multiplatform Experiment to Unravel Meso- and Submesoscale Processes in an Intense Front (AlborEx). Frontiers in Marine Science, 2017, 4, .	2.5	68
41	The Copernicus Marine Environment Monitoring Service Ocean State Report. Journal of Operational Oceanography, 2016, 9, s235-s320.	1.2	86
42	Modelling surface currents in the Eastern Levantine Mediterranean using surface drifters and satellite altimetry. Ocean Modelling, 2016, 104, 1-14.	2.4	3
43	Observed and modeled surface Lagrangian transport between coastal regions in the Adriatic Sea with implications for marine protected areas. Continental Shelf Research, 2016, 118, 23-48.	1.8	32
44	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
45	Measurements of water-mass properties with a glider in the South-western Adriatic Sea. Journal of Operational Oceanography, 2016, 9, s3-s9.	1.2	4
46	Fifteen years of ocean observations with the global Argo array. Nature Climate Change, 2016, 6, 145-153.	18.8	380
47	Direct measurements of World Ocean tidal currents with surface drifters. Journal of Geophysical Research: Oceans, 2015, 120, 6986-7003.	2.6	25
48	Toward an integrated HF radar network in the Mediterranean Sea to improve search and rescue and oil spill response: the TOSCA project experience. Journal of Operational Oceanography, 2015, 8, 95-107.	1.2	56
49	Geostrophic currents and kinetic energies in the Black Sea estimated from merged drifter and satellite altimetry data. Ocean Science, 2014, 10, 155-165.	3.4	16
50	Computation of a new mean dynamic topography for the Mediterranean Sea from model outputs, altimeter measurements and oceanographic in situ data. Ocean Science, 2014, 10, 731-744.	3.4	83
51	Physical forcing and physical/biochemical variability of the Mediterranean Sea: a review of unresolved issues and directions for future research. Ocean Science, 2014, 10, 281-322.	3.4	154
52	Extreme winter 2012 in the Adriatic: an example of climatic effect on the BIOS rhythm. Ocean Science, 2014, 10, 513-522.	3.4	77
53	Lagrangian analysis of satellite-derived currents: Application to the North Western Mediterranean coastal dynamics. Advances in Space Research, 2014, 53, 788-801.	2.6	15
54	Influence of Dardanelles outflow induced thermal fronts and winds on drifter trajectories in the Aegean Sea. Mediterranean Marine Science, 2014, 15, 239.	1.6	6

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55	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
56	Investigating transport pathways in the ocean. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2013, 85, 81-95.	1.4	12
57	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
58	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
59	Tidal currents in the Adriatic as measured by surface drifters. <i>Journal of Geophysical Research: Oceans</i> , 2013, 118, 1434-1444.	2.6	20
60	Transit and residence times in the Adriatic Sea surface as derived from drifter data and Lagrangian numerical simulations. <i>Ocean Science</i> , 2013, 9, 713-720.	3.4	20
61	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
62	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
63	Targeted Lagrangian sampling of submesoscale dispersion at a coastal frontal zone. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	59
64	Eddy diffusivity derived from drifter data for dispersion model applications. <i>Ocean Dynamics</i> , 2012, 62, 1381-1398.	2.2	48
65	Variational assimilation of Lagrangian trajectories in the Mediterranean ocean Forecasting System. <i>Ocean Science</i> , 2012, 8, 249-259.	3.4	13
66	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
67	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
68	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
69	On the assessment of Argo float trajectory assimilation in the Mediterranean Forecasting System. <i>Ocean Dynamics</i> , 2011, 61, 1475-1490.	2.2	18
70	Multiparametric observation and analysis of the sea. <i>Ocean Dynamics</i> , 2011, 61, 1491-1493.	2.2	0
71	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
72	Mediterranean intermediate circulation estimated from Argo data in 2003â€“2010. <i>Ocean Science</i> , 2010, 6, 331-343.	3.4	41

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73	Lagrangian and Eulerian observations of the surface circulation in the Tyrrhenian Sea. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	57
74	Surface circulation in the Eastern Mediterranean using drifters (2005â€“2007). <i>Ocean Science</i> , 2009, 5, 559-574.	3.4	48
75	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
76	Super-ensemble techniques: Application to surface drift prediction. <i>Progress in Oceanography</i> , 2009, 82, 149-167.	3.2	57
77	Remote Oceanographic Instrumentation Integrated in a GRID Environment. <i>Computational Methods in Science and Technology</i> , 2009, 15, 49-55.	0.3	5
78	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
79	Modeling the trajectories of satelliteâ€“tracked drifters in the Adriatic Sea during a summertime bora event. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	10
80	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
81	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
82	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
83	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
84	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
85	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
86	MODIS chlorophyll variability in the northern Adriatic Sea and relationship with forcing parameters. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	33
87	Model-based directed drifter launches in the Adriatic Sea: Results from the DART experiment. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	37
88	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
89	MedArgo: a drifting profiler program in the Mediterranean Sea. <i>Ocean Science</i> , 2007, 3, 379-395.	3.4	76
90	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

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91	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
92	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
93	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
94	Northern Adriatic response to a wintertime bora wind event. <i>Eos</i> , 2005, 86, 157.	0.1	69
95	Unusual upwelling event and current reversal off the Italian Adriatic coast in summer 2003. <i>Geophysical Research Letters</i> , 2004, 31, n/a-n/a.	4.0	27
96	Lagrangian turbulence in the Adriatic Sea as computed from drifter data: Effects of inhomogeneity and nonstationarity. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	19
97	Sediment Dynamics in the Adriatic Sea Investigated with Coupled Models. <i>Oceanography</i> , 2004, 17, 58-69.	1.0	43
98	Observations of Black Sea mesoscale eddies and associated horizontal mixing. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	101
99	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
100	Analysis of velocity field in the eastern Black Sea from satellite data during the Black Sea '99 experiment. <i>Journal of Geophysical Research</i> , 2002, 107, 13-1.	3.3	28
101	31st International Liège Colloquium on Ocean Hydrodynamics Liège, Belgium, May 3â€“7, 1999. <i>Journal of Marine Systems</i> , 2001, 29, 1.	2.1	2
102	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
103	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
104	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
105	Transport Properties in the Adriatic Sea as Deduced from Drifter Data. <i>Journal of Physical Oceanography</i> , 2000, 30, 2055-2071.	1.7	98
106	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
107	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
108	Current measurements in the Strait of Otranto reveal unforeseen aspects of its hydrodynamics. <i>Eos</i> , 1996, 77, 345.	0.1	16

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109	Near-surface circulation of the Nordic seas as measured by Lagrangian drifters. Journal of Geophysical Research, 1996, 101, 18237-18258.	3.3	247
110	Quality Control and Interpolations of WOCE-TOGA Drifter Data. Journal of Atmospheric and Oceanic Technology, 1996, 13, 900-909.	1.3	318
111	Statistical Analysis of the Surface Circulation in the California Current System Using Satellite-Tracked Drifters. Journal of Physical Oceanography, 1989, 19, 1588-1603.	1.7	119
112	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
113	Preliminary deployment of Grid-assisted oceanographic applications. Advances in Geosciences, 0, 28, 39-45.	12.0	3