

Josep L. Pelegrà-

List of Publications by Year in descending order

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116
papers

2,996
citations

172207

29
h-index

197535

49
g-index

120
all docs

120
docs citations

120
times ranked

2887
citing authors

#	ARTICLE	IF	CITATIONS
1	Coupling between the open ocean and the coastal upwelling region off northwest Africa: water recirculation and offshore pumping of organic matter. <i>Journal of Marine Systems</i> , 2005, 54, 3-37.	0.9	165
2	The Canary Eddy Corridor: A major pathway for long-lived eddies in the subtropical North Atlantic. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2009, 56, 2100-2114.	0.6	153
3	An improved coastal upwelling index from sea surface temperature using satellite-based approach “The case of the Canary Current upwelling system. <i>Continental Shelf Research</i> , 2014, 81, 38-54.	0.9	119
4	The Bransfield current system. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2011, 58, 390-402.	0.6	118
5	Nutrient transport and mixing in the Gulf Stream. <i>Journal of Geophysical Research</i> , 1991, 96, 2577-2583.	3.3	107
6	Mass fluxes in the Canary Basin. <i>Progress in Oceanography</i> , 2006, 70, 416-447.	1.5	98
7	Imaging meddy finestructure using multichannel seismic reflection data. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	93
8	Nutrient irrigation of the North Atlantic. <i>Progress in Oceanography</i> , 2006, 70, 366-406.	1.5	91
9	Life history of an anticyclonic eddy. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	75
10	The North Atlantic nutrient stream. <i>Journal of Oceanography</i> , 1996, 52, 275-299.	0.7	71
11	Relative contribution of temperature and salinity to ocean acoustic reflectivity. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	68
12	Water and nutrient fluxes off Northwest Africa. <i>Continental Shelf Research</i> , 2008, 28, 915-936.	0.9	66
13	The Mediterranean Overflow in the Gulf of Cadiz: A rugged journey. <i>Science Advances</i> , 2017, 3, eaao0609.	4.7	66
14	Hydrographic cruises off northwest Africa: the Canary Current and the Cape Ghir region. <i>Journal of Marine Systems</i> , 2005, 54, 39-63.	0.9	59
15	The continental slope current system between Cape Verde and the Canary Islands. <i>Scientia Marina</i> , 2012, 76, 65-78.	0.3	59
16	On the nature of oceanic eddies shed by the Island of Gran Canaria. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2007, 54, 687-709.	0.6	55
17	Exchange of carbon by an upwelling filament off Cape Ghir (NW Africa). <i>Journal of Marine Systems</i> , 2005, 54, 83-95.	0.9	53
18	Northward Penetration of Antarctic Intermediate Water off Northwest Africa. <i>Journal of Physical Oceanography</i> , 2009, 39, 512-535.	0.7	51

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19	Diapycnal mixing in western boundary currents. <i>Journal of Geophysical Research</i> , 1994, 99, 18275.	3.3	47
20	Temporal variability of mass transport in the Canary Current. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2002, 49, 3415-3426.	0.6	45
21	Subregional characterization of mesoscale eddies across the Brazil-Malvinas Confluence. <i>Journal of Geophysical Research: Oceans</i> , 2017, 122, 3329-3357.	1.0	45
22	Water mass pathways to the North Atlantic oxygen minimum zone. <i>Journal of Geophysical Research: Oceans</i> , 2015, 120, 3350-3372.	1.0	40
23	Water masses, circulation and transport in the eastern boundary current of the North Atlantic subtropical gyre. <i>Scientia Marina</i> , 2001, 65, 177-186.	0.3	40
24	Near-surface circulation in the southern Gulf of Cadiz. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2006, 53, 1161-1181.	0.6	39
25	Physical and biogeochemical forcing of oxygen and nitrate changes during El Niño/El Viejo and La Niña/La Vieja upper-ocean phases in the tropical eastern South Pacific along 86° W. <i>Biogeosciences</i> , 2013, 10, 6339-6355.	1.3	39
26	Interaction of Mediterranean water eddies with Sedlo and Seine Seamounts, Subtropical Northeast Atlantic. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2009, 56, 2593-2605.	0.6	38
27	Dynamical characteristics of the Cape Verde frontal zone. <i>Scientia Marina</i> , 2001, 65, 241-250.	0.3	37
28	Potential changes in larval dispersal and alongshore connectivity on the central Chilean coast due to an altered wind climate. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	35
29	Dynamics at an elongated, intermediate depth seamount in the North Atlantic (Sedlo Seamount, Tj ETQq1 1 0.784314 rgBT /Overlo	0.6	33
30	On the Spatiotemporal Diversity of Atlantic Niño and Associated Rainfall Variability Over West Africa and South America. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087108.	1.5	33
31	Meridional overturning transports at 7.5N and 24.5N in the Atlantic Ocean during 1992-93 and 2010-11. <i>Progress in Oceanography</i> , 2014, 128, 98-114.	1.5	32
32	Seismic reflection along the path of the Mediterranean Undercurrent. <i>Continental Shelf Research</i> , 2009, 29, 1848-1860.	0.9	31
33	Physical drivers of interannual chlorophyll variability in the eastern subtropical North Atlantic. <i>Journal of Geophysical Research: Oceans</i> , 2013, 118, 3871-3886.	1.0	30
34	Seasonal Flow Reversals of Intermediate Waters in the Canary Current System East of the Canary Islands. <i>Journal of Physical Oceanography</i> , 2010, 40, 1902-1909.	0.7	29
35	Diapycnal mixing in Gulf Stream meanders. <i>Journal of Geophysical Research</i> , 1999, 104, 25891-25912.	3.3	28
36	Meridional changes in water mass distributions off NW Africa during November 2007/2008. <i>Ciencias Marinas</i> , 2012, 38, 223-244.	0.4	28

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37	Seasonal circulation over the Catalan inner-shelf (northwest Mediterranean Sea). <i>Journal of Geophysical Research: Oceans</i> , 2013, 118, 5844-5857.	1.0	26
38	A Lagrangian study tracing water parcel origins in the Canary Upwelling System. <i>Scientia Marina</i> , 2012, 76, 79-94.	0.3	26
39	Coupled CO ₂ and O ₂ -driven compromises to marine life in summer along the Chilean sector of the Humboldt Current System. <i>Biogeosciences</i> , 2012, 9, 1183-1194.	1.3	25
40	Meridional and zonal changes in water properties along the continental slope off central and northern Chile. <i>Ciencias Marinas</i> , 2012, 38, 307-332.	0.4	25
41	Chlorophyll increase due to internal waves in the shelf-break of Gran Canaria Island (Canary Islands). <i>Scientia Marina</i> , 2001, 65, 89-97.	0.3	24
42	A mechanism for layer formation in stratified geophysical flows. <i>Journal of Geophysical Research</i> , 1998, 103, 30679-30693.	3.3	23
43	On the temporal memory of coastal upwelling off NW Africa. <i>Journal of Geophysical Research: Oceans</i> , 2014, 119, 6356-6380.	1.0	23
44	Characteristics and evolution of an <i>gulhas</i> ring. <i>Journal of Geophysical Research: Oceans</i> , 2017, 122, 7049-7065.	1.0	21
45	The upper, deep, abyssal and overturning circulation in the Atlantic Ocean at 30°S in 2003 and 2011. <i>Progress in Oceanography</i> , 2019, 176, 102136.	1.5	21
46	Zonal jets in the equatorial Atlantic Ocean. <i>Progress in Oceanography</i> , 2015, 130, 1-18.	1.5	20
47	Tasman Leakage of intermediate waters as inferred from Argo floats. <i>Geophysical Research Letters</i> , 2013, 40, 5456-5460.	1.5	19
48	Water masses and mesoscale control on latitudinal and cross-shelf variations in larval fish assemblages off NW Africa. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2016, 117, 120-137.	0.6	19
49	Estimates of gradient Richardson numbers from vertically smoothed data in the Gulf Stream region. <i>Scientia Marina</i> , 2004, 68, 459-482.	0.3	18
50	Does a general relationship exist between fluorescent dissolved organic matter and microbial respiration? The case of the dark equatorial Atlantic Ocean. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2014, 89, 44-55.	0.6	17
51	Turbulence as a driver for vertical plankton distribution in the subsurface upper ocean. <i>Scientia Marina</i> , 2013, 77, 541-549.	0.3	17
52	Three-dimensional circulation in the NW Africa coastal transition zone. <i>Progress in Oceanography</i> , 2011, 91, 516-533.	1.5	15
53	Oceanography of the Cape Verde Basin and Mauritanian Slope Waters. , 2017, , 119-153.		15
54	On the role of shear mixing during transient coastal upwelling. <i>Continental Shelf Research</i> , 1993, 13, 1363-1400.	0.9	14

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55	Impact of anthropogenic CO ₂ on the next glacial cycle. <i>Climatic Change</i> , 2014, 122, 283-298.	1.7	14
56	Tracking the Mediterranean outflow in the Gulf of Cadiz. <i>Progress in Oceanography</i> , 2017, 157, 47-71.	1.5	14
57	Oxygen Pathways and Budget for the Eastern South Pacific Oxygen Minimum Zone. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 1722-1744.	1.0	14
58	Net Additions of Recalcitrant Dissolved Organic Carbon in the Deep Atlantic Ocean. <i>Global Biogeochemical Cycles</i> , 2019, 33, 1162-1173.	1.9	14
59	Eastern boundary drainage of the North Atlantic subtropical gyre. <i>Ocean Dynamics</i> , 2012, 62, 1287-1310.	0.9	13
60	Turbulence and high-frequency variability in a deep gravity current outflow. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	13
61	Winter and spring surface velocity fields in the Cape Blanc region as deduced with the maximum cross-correlation technique. <i>International Journal of Remote Sensing</i> , 2013, 34, 3587-3606.	1.3	13
62	Cut-off low systems over Iraq: Contribution to annual precipitation and synoptic analysis of extreme events. <i>International Journal of Climatology</i> , 2020, 40, 908-926.	1.5	13
63	Tidal fronts in estuaries. <i>Estuarine, Coastal and Shelf Science</i> , 1988, 27, 45-60.	0.9	12
64	Inverse Modeling the Brazil-Malvinas Confluence. <i>Journal of Geophysical Research: Oceans</i> , 2019, 124, 527-554.	1.0	12
65	Slope Control in Western Boundary Currents. <i>Journal of Physical Oceanography</i> , 2001, 31, 3349-3360.	0.7	11
66	CZCS chlorophyll patterns in the South Atlantic Bight during low vertical stratification conditions. <i>Continental Shelf Research</i> , 2006, 26, 429-457.	0.9	10
67	Topographic control on the nascent Mediterranean outflow. <i>Geo-Marine Letters</i> , 2011, 31, 301-314.	0.5	10
68	Geostrophic and ageostrophic circulation of a shallow anticyclonic eddy off Cape Bojador. <i>Journal of Geophysical Research: Oceans</i> , 2014, 119, 1257-1270.	1.0	10
69	Applicability of T-S algorithms to the Canary Islands region. <i>Scientia Marina</i> , 2001, 65, 195-204.	0.3	10
70	On the relevance of diapycnal mixing for the stability of frontal meanders. <i>Scientia Marina</i> , 2001, 65, 259-267.	0.3	10
71	Vorticity balance of boundary currents. <i>Journal of Marine Research</i> , 1995, 53, 171-187.	0.3	9
72	Effect of the Canary Islands in the blockage and mixing of the North Atlantic eastern water masses. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	9

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73	Mass and nutrient fluxes around Sedlo Seamount. Deep-Sea Research Part II: Topical Studies in Oceanography, 2009, 56, 2606-2617.	0.6	9
74	Transports and budgets of anthropogenic CO_2 in the tropical North Atlantic in 1992–1993 and 2010–2011. Global Biogeochemical Cycles, 2015, 29, 1075-1091.	1.9	9
75	Response of the surface tropical Atlantic Ocean to wind forcing. Progress in Oceanography, 2015, 134, 271-292.	1.5	9
76	A view of the Brazil-Malvinas confluence, March 2015. Deep-Sea Research Part I: Oceanographic Research Papers, 2021, 172, 103533.	0.6	9
77	Inter-decadal changes in stratification and double diffusion in a transatlantic section along 7.5°N . Scientia Marina, 2012, 76, 189-207.	0.3	9
78	Seasonal variability of the upper warmwatersphere in the Canary Basin. Scientia Marina, 2001, 65, 251-258.	0.3	9
79	Sensitivity of an idealized subtropical gyre to the eastern boundary conditions. Scientia Marina, 2001, 65, 187-194.	0.3	8
80	Wind-driven surface circulation in the Cape Blanc region. Continental Shelf Research, 2013, 60, 87-103.	0.9	7
81	Salinity intrusion and convective mixing in the Atlantic Equatorial Undercurrent. Scientia Marina, 2012, 76, 117-129.	0.3	7
82	Interaction of Mediterranean Water lenses with Antarctic Intermediate Water off Northwest Africa. Scientia Marina, 2016, 80, 205-214.	0.3	7
83	Analytic salinity-temperature relations for the upper-thermocline waters of the eastern North Atlantic subtropical gyre. Scientia Marina, 2006, 70, 167-175.	0.3	7
84	Modelling the early evolution of a Loop Current ring. Journal of Marine Systems, 2010, 80, 160-171.	0.9	6
85	Temperature Spatiotemporal Correlation Scales in the Brazil–Malvinas Confluence from High-Resolution In Situ and Remote Sensing Data. Geophysical Research Letters, 2019, 46, 13234-13243.	1.5	6
86	Subtropical–Tropical Transfer in the South Atlantic Ocean. Journal of Geophysical Research: Oceans, 2019, 124, 4820-4837.	1.0	6
87	Heat Gain in the Eastern North Atlantic Subtropical Gyre. , 1997, , 419-436.		6
88	Detection of a weak meddy-like anomaly from high-resolution satellite SST maps. Scientia Marina, 2012, 76, 229-234.	0.3	6
89	Thirty years of research and development of Lagrangian buoys at the Institute of Marine Sciences. Scientia Marina, 2016, 80, 141-158.	0.3	6
90	Tidal currents and mixing in the Lake Maracaibo estuarine system. Scientia Marina, 2001, 65, 155-166.	0.3	6

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91	Vertical alignment of the Gulf Stream. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2005, 57, 691-700.	0.8	5
92	Temporal evolution of the momentum balance terms and frictional adjustment observed over the inner shelf during a storm. <i>Ocean Science</i> , 2016, 12, 137-151.	1.3	5
93	Dataset on the TIC-MOC cruise onboard the R/V Hesp�rides, March 2015, Brazil-Malvinas Confluence. <i>Data in Brief</i> , 2019, 22, 185-194.	0.5	5
94	Ocean rheology. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2006, 133, 121-131.	1.0	4
95	Real time visualization of thermohaline finestructure using Seismic Offset Groups. <i>Methods in Oceanography</i> , 2012, 3-4, 1-13.	1.5	4
96	Anthropogenic CO2 changes in the Equatorial Atlantic Ocean. <i>Progress in Oceanography</i> , 2015, 134, 256-270.	1.5	4
97	Seasonal Variability of Retroflection Structures and Transports in the Atlantic Ocean as Inferred from Satellite-Derived Salinity Maps. <i>Remote Sensing</i> , 2019, 11, 802.	1.8	4
98	Diapycnal mixing in a frontal system forced by an oscillating deformation field. <i>Physics and Chemistry of the Earth</i> , 2001, 26, 293-298.	0.3	3
99	Global constraints on net primary production and inorganic carbon supply during glacial and interglacial cycles. <i>Paleoceanography</i> , 2013, 28, 713-725.	3.0	3
100	Dataset on the RETRO-BMC cruise onboard the R/V Hesp�rides, April 2017, Brazil-Malvinas Confluence. <i>Data in Brief</i> , 2020, 30, 105412.	0.5	3
101	Experiments on layer formation in stratified shear flow. <i>Scientia Marina</i> , 2001, 65, 117-126.	0.3	3
102	Field validation of a semi-spherical Lagrangian drifter. <i>Scientia Marina</i> , 2001, 65, 139-143.	0.3	3
103	Barcelona Coastal Monitoring with the ‘Pat�a Vela’, a Traditional Sailboat Turned into an Oceanographic Platform. <i>Journal of Marine Science and Engineering</i> , 2022, 10, 591.	1.2	3
104	Water Mass Transports and Pathways in the North Brazil�Equatorial Undercurrent Retroflection. <i>Journal of Geophysical Research: Oceans</i> , 2022, 127, .	1.0	3
105	Integral descriptors of the vertical structure of the ocean. <i>Journal of Oceanography</i> , 2009, 65, 499-510.	0.7	2
106	Inverse modeling of salinity�temperature�depth relationships: Application to the upper eastern North Atlantic subtropical gyre. <i>Journal of Marine Systems</i> , 2010, 80, 144-159.	0.9	2
107	A Simple Nonlinear and End-Member-Free Approach for Obtaining Ocean Remineralization Patterns. <i>Journal of Atmospheric and Oceanic Technology</i> , 2017, 34, 2443-2455.	0.5	2
108	Differences between 1999 and 2010 across the Falkland Plateau: fronts and water masses. <i>Ocean Science</i> , 2017, 13, 577-587.	1.3	2

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109	The Transfer of Antarctic Circumpolar Waters to the Western South Atlantic Ocean. Journal of Geophysical Research: Oceans, 2021, 126, e2020JC017025.	1.0	2
110	An Overview on Biodiversity and Ecosystems Off Mauritanian Deep-Waters. , 2017, , 615-659.		1
111	Evolution of geoids in recent years and its impact on oceanography. Scientia Marina, 2014, 78, 155-164.	0.3	1
112	Gabriel T. Csanady: Understanding the physics of the ocean. Progress in Oceanography, 2006, 70, 91-112.	1.5	0
113	Crucial times for Spanish physical oceanography. Scientia Marina, 2012, 76, 11-28.	0.3	0
114	Analysis of the planetary thermal distribution with a simple three-zone maximum-flux model. International Journal of Heat and Mass Transfer, 2020, 160, 120185.	2.5	0
115	The ocean, our climate and the earth's health. Scientia Marina, 2001, 65, 3-6.	0.3	0
116	La memòria oceànica del clima: El sistema circulatori d'un planeta viu. Mètode Revista De Difusió De La Investigació De La Universitat De València, 2013, .	0.0	0