

Jesus GarcÃ-a Lafuente

List of Publications by Year in descending order

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92
papers

3,688
citations

101496

36
h-index

143943

57
g-index

95
all docs

95
docs citations

95
times ranked

3212
citing authors

#	ARTICLE	IF	CITATIONS
1	Upwelling mechanisms in the northwestern Alboran Sea. <i>Journal of Marine Systems</i> , 2000, 23, 317-331.	0.9	199
2	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.	1.3	154
3	Water mass circulation on the continental shelf of the Gulf of Cádiz. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2006, 53, 1182-1197.	0.6	142
4	About the seasonal variability of the Alboran Sea circulation. <i>Journal of Marine Systems</i> , 2002, 35, 229-248.	0.9	134
5	The Gulf of Cádiz pelagic ecosystem: A review. <i>Progress in Oceanography</i> , 2007, 74, 228-251.	1.5	111
6	Hydrographic phenomena influencing early life stages of the Sicilian Channel anchovy. <i>Fisheries Oceanography</i> , 2002, 11, 31-44.	0.9	107
7	Distribution and circulation of water masses in the Gulf of Cadiz from in situ observations. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2006, 53, 1144-1160.	0.6	99
8	Tide at the eastern section of the Strait of Gibraltar. <i>Journal of Geophysical Research</i> , 2000, 105, 14197-14213.	3.3	98
9	Copernicus Marine Service Ocean State Report. <i>Journal of Operational Oceanography</i> , 2018, 11, S1-S142.	0.6	96
10	Seasonal and wind-induced variability of Sea Surface Temperature patterns in the Gulf of Cádiz. <i>Journal of Marine Systems</i> , 2003, 38, 205-219.	0.9	93
11	Low-frequency variability of the exchanged flows through the Strait of Gibraltar during CANIGO. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2002, 49, 4051-4067.	0.6	91
12	Steric and mass-induced Mediterranean sea level trends from 14 years of altimetry data. <i>Global and Planetary Change</i> , 2008, 60, 563-575.	1.6	89
13	Variability in the spatio-temporal distribution and size-structure of phytoplankton across an upwelling area in the NW-Alboran Sea, (W-Mediterranean). <i>Continental Shelf Research</i> , 2005, 25, 589-608.	0.9	88
14	Physical-biological coupling in the Strait of Gibraltar. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2002, 49, 4115-4130.	0.6	81
15	Transport estimates in the Strait of Gibraltar with a tidal inverse model. <i>Journal of Geophysical Research</i> , 2001, 106, 31033-31044.	3.3	78
16	Atlantic forcing of the Mediterranean oligotrophy. <i>Global Biogeochemical Cycles</i> , 2012, 26, .	1.9	77
17	Evolution of the Alboran Sea hydrographic structures during July 1993. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 1998, 45, 39-65.	0.6	76
18	Estimation of the Atlantic inflow through the Strait of Gibraltar from climatological and in situ data. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	76

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19	The Mediterranean Overflow in the Gulf of Cadiz: A rugged journey. <i>Science Advances</i> , 2017, 3, eaao0609.	4.7	66
20	Anthropogenic and natural CO ₂ exchange through the Strait of Gibraltar. <i>Biogeosciences</i> , 2009, 6, 647-662.	1.3	62
21	Oceanographic processes and morphosedimentary products along the Iberian margins: A new multidisciplinary approach. <i>Marine Geology</i> , 2016, 378, 127-156.	0.9	60
22	Transport estimates at the western section of the Strait of Gibraltar: A combined experimental and numerical modeling study. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	58
23	Analysis of mixing and biogeochemical effects induced by tides on the Atlantic-Mediterranean flow in the Strait of Gibraltar through a physical-biological coupled model. <i>Progress in Oceanography</i> , 2007, 74, 252-272.	1.5	54
24	Circulation of the Mediterranean Sea and its Variability. , 2012, , 187-256.		54
25	Long-term monitoring programme of the hydrological variability in the Mediterranean Sea: a first overview of the HYDROCHANGES network. <i>Ocean Science</i> , 2013, 9, 301-324.	1.3	49
26	What does cause the collapse of the Western Alboran Gyre? Results of an operational ocean model. <i>Progress in Oceanography</i> , 2013, 116, 142-153.	1.5	48
27	The Mediterranean Sea heat and mass budgets: Estimates, uncertainties and perspectives. <i>Progress in Oceanography</i> , 2017, 156, 174-208.	1.5	48
28	Challenges for Sustained Observing and Forecasting Systems in the Mediterranean Sea. <i>Frontiers in Marine Science</i> , 2019, 6, .	1.2	47
29	Fueling Plankton Production by a Meandering Frontal Jet: A Case Study for the Alboran Sea (Western) Tj ETQq1 1 0,784314 rgBT /Overde	1.1	47
30	Mediterranean Sea level and barotropic flow through the Strait of Gibraltar for the period 1958-2001 and reconstructed since 1659. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	46
31	Three-Dimensional Evolution of Large-Amplitude Internal Waves in the Strait of Gibraltar. <i>Journal of Physical Oceanography</i> , 2009, 39, 2230-2246.	0.7	46
32	Trends of pH decrease in the Mediterranean Sea through high frequency observational data: indication of ocean acidification in the basin. <i>Scientific Reports</i> , 2015, 5, 16770.	1.6	46
33	Interannual variability of the Mediterranean outflow observed in Espartel sill, western Strait of Gibraltar. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	42
34	Seasonal and interannual variability of surface heat and freshwater fluxes in the Mediterranean Sea: budgets and exchange through the Strait of Gibraltar. <i>International Journal of Climatology</i> , 2012, 32, 286-302.	1.5	41
35	Tidal motions and tidally induced fluxes through La Lãnea submarine canyon, western Alboran Sea. <i>Journal of Geophysical Research</i> , 1999, 104, 3109-3119.	3.3	40
36	On the steric and mass-induced contributions to the annual sea level variations in the Mediterranean Sea. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	39

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37	The very first transformation of the Mediterranean outflow in the Strait of Gibraltar. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	39
38	Consistency of long sea-level time series in the northern coast of Spain. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	38
39	Interannual fluctuations in acoustic biomass estimates and in landings of small pelagic fish populations in relation to hydrology in the Strait of Sicily. <i>Chemistry and Ecology</i> , 2004, 20, 365-375.	0.6	37
40	How much do tides affect the circulation of the Mediterranean Sea? From local processes in the Strait of Gibraltar to basin-scale effects. <i>Progress in Oceanography</i> , 2014, 127, 108-116.	1.5	35
41	Ten years of marine current measurements in Espartel sill, Strait of Gibraltar. <i>Journal of Geophysical Research: Oceans</i> , 2015, 120, 6309-6328.	1.0	35
42	Inflow interruption by meteorological forcing in the Strait of Gibraltar. <i>Geophysical Research Letters</i> , 2002, 29, 20-1-20-4.	1.5	34
43	Evaluation of regional ocean circulation models for the Mediterranean Sea at the Strait of Gibraltar: volume transport and thermohaline properties of the outflow. <i>Climate Dynamics</i> , 2015, 44, 1277-1292.	1.7	33
44	Observations of internal waves and associated mixing phenomena in the Portimao Canyon area. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2006, 53, 1219-1240.	0.6	31
45	Seasonal and interannual variability of the surface circulation in the eastern Gulf of Cadiz (SW) Tj ETQq1 1 0.784314 rgBT /Overlock 1	3.3	31
46	Fortnightly and monthly variability of the exchange through the Strait of Gibraltar. <i>Progress in Oceanography</i> , 2006, 70, 466-485.	1.5	30
47	The Western Alboran Gyre helps ventilate the Western Mediterranean Deep Water through Gibraltar. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2012, 63, 157-163.	0.6	28
48	A numerical model analysis of the tidal flows in the Bay of Algeciras, Strait of Gibraltar. <i>Continental Shelf Research</i> , 2014, 72, 34-46.	0.9	27
49	Mediterranean waters along and across the Strait of Gibraltar, characterization and zonal modification. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2015, 105, 41-52.	0.6	27
50	The interface mixing layer and the tidal dynamics at the eastern part of the Strait of Gibraltar. <i>Journal of Marine Systems</i> , 2013, 117-118, 31-42.	0.9	25
51	Assessing the variability of hydrographic processes influencing the life cycle of the Sicilian Channel anchovy, <i>Engraulis encrasicolus</i> , by satellite imagery. <i>Fisheries Oceanography</i> , 2005, 14, 32-46.	0.9	24
52	Small-scale temporal variations in biogeochemical features in the Strait of Gibraltar, Mediterranean side—the role of NACW and the interface oscillation. <i>Journal of Marine Systems</i> , 2001, 30, 207-220.	0.9	22
53	Vertical structure of tidal currents over Espartel and Camarinal sills, Strait of Gibraltar. <i>Journal of Marine Systems</i> , 2008, 74, 120-133.	0.9	22
54	The Mediterranean outflow in the Strait of Gibraltar and its connection with upstream conditions in the Alborán Sea. <i>Ocean Science</i> , 2017, 13, 195-207.	1.3	20

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55	Exchange of planktonic biomass through the Strait of Gibraltar in late summer conditions. Deep-Sea Research Part II: Topical Studies in Oceanography, 2002, 49, 4131-4144.	0.6	19
56	Meteorologically-driven circulation and flushing times of the Bay of Algeciras, Strait of Gibraltar. Marine Pollution Bulletin, 2014, 80, 97-106.	2.3	19
57	Modeling the impact of tidal flows on the biological productivity of the Alboran Sea. Journal of Geophysical Research: Oceans, 2015, 120, 7329-7345.	1.0	19
58	Inter-annual variability and long term predictability of exchanges through the Strait of Gibraltar. Global and Planetary Change, 2014, 114, 23-37.	1.6	18
59	Effects of tidal and river discharge forcings on tidal propagation along the Guadiana Estuary. Journal of Sea Research, 2019, 146, 1-13.	0.6	18
60	Spatial and temporal variability of tidal flow in the Strait of Gibraltar. Journal of Marine Systems, 2012, 98-99, 9-17.	0.9	17
61	Surface circulation at the Strait of Gibraltar: A combined HF radar and high resolution model study. Journal of Geophysical Research: Oceans, 2016, 121, 2016-2034.	1.0	17
62	Filament generation off the Strait of Gibraltar in response to Gap winds. Dynamics of Atmospheres and Oceans, 2009, 46, 36-45.	0.7	15
63	Recent changes (2004-2016) of temperature and salinity in the Mediterranean outflow. Geophysical Research Letters, 2017, 44, 5665-5672.	1.5	15
64	Wind induced variability of hydrographic features and water masses distribution in the Gulf of Cadiz (SW Iberia) from in situ data. Journal of Marine Systems, 2006, 63, 130-140.	0.9	14
65	About the tidal oscillations of temperature in a tidally driven estuary: The case of Guadalquivir estuary, southwest Spain. Estuarine, Coastal and Shelf Science, 2012, 111, 60-66.	0.9	14
66	Large-Scale Atmospheric Forcing Influencing the Long-Term Variability of Mediterranean Heat and Freshwater Budgets: Climatic Indices. Journal of Hydrometeorology, 2014, 15, 650-663.	0.7	14
67	Energy of marine currents in the Strait of Gibraltar and its potential as a renewable energy resource. Renewable and Sustainable Energy Reviews, 2014, 34, 98-109.	8.2	12
68	Hotter and Weaker Mediterranean Outflow as a Response to Basin-Wide Alterations. Frontiers in Marine Science, 2021, 8, .	1.2	12
69	A new insight on the decreasing sea level trend over the Ionian basin in the last decades. Global and Planetary Change, 2009, 68, 232-235.	1.6	11
70	Decadal-scale variability of sardine and anchovy simulated with an end-to-end coupled model of the Canary Current ecosystem. Progress in Oceanography, 2019, 171, 212-230.	1.5	11
71	Topographic control on the nascent Mediterranean outflow. Geo-Marine Letters, 2011, 31, 301-314.	0.5	10
72	The Meandering Path of a Drifter around the Western Alboran Gyre. Journal of Physical Oceanography, 2004, 34, 685-692.	0.7	9

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73	Low-frequency variability of the Mediterranean undercurrent off Galicia, northwestern Iberian Peninsula. <i>Journal of Marine Systems</i> , 2008, 74, 351-363.	0.9	9
74	Recent thermohaline trends of the Atlantic waters inflowing to the Mediterranean Sea. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	9
75	A simple model for submaximal exchange through the Strait of Gibraltar. <i>Scientia Marina</i> , 2001, 65, 313-322.	0.3	9
76	About the seasonal and fortnightly variabilities of the Mediterranean outflow. <i>Ocean Science</i> , 2011, 7, 421-428.	1.3	8
77	Vertical structure and bottom-intensification of tidal currents off Northwestern Spain. <i>Journal of Marine Systems</i> , 2006, 62, 55-70.	0.9	7
78	Water renewal in semi-enclosed basins: A high resolution Lagrangian approach with application to the Bay of Algeciras, Strait of Gibraltar. <i>Limnology and Oceanography: Methods</i> , 2018, 16, 106-118.	1.0	7
79	Experimental and numerical characterization of harbor oscillations in the port of Málaga, Spain. <i>Ocean Engineering</i> , 2014, 88, 110-119.	1.9	6
80	On the seasonality of waters below the seasonal thermocline in the Gulf of Cádiz. <i>Continental Shelf Research</i> , 2020, 204, 104190.	0.9	6
81	On the origin of the seasonal and interannual S variability of the inflow through the Strait of Gibraltar. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2015, 101, 38-53.	0.6	5
82	Biophysical Processes Determining the Connectivity of the Alboran Sea Fish Populations. , 2021, , 459-487.		5
83	Short period sea level oscillations at Strait of Gibraltar: Observations versus model results. <i>Estuarine, Coastal and Shelf Science</i> , 2011, 95, 307-313.	0.9	4
84	Two decades of mesoscale phenomena on either side of the Strait of Gibraltar. <i>Scientia Marina</i> , 2012, 76, 95-102.	0.3	4
85	Climatic Indices Influencing the Long-Term Variability of Mediterranean Heat and Water Fluxes: The North Atlantic and Mediterranean Oscillations. <i>Atmosphere - Ocean</i> , 2014, 52, 103-114.	0.6	3
86	Hydrodynamic connectivity and dispersal patterns of a transboundary species (<i>Pagellus</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 384-401.	0.9	3
87	Asymmetric Baroclinic Response to Tidal Forcing Along the Main Sill of the Strait of Gibraltar Inferred from Mooring Observations. <i>Springer Oceanography</i> , 2018, , 193-210.	0.2	2
88	On the role of the bay of algeciras in the exchange across the strait of Gibraltar. <i>Regional Studies in Marine Science</i> , 2019, 29, 100620.	0.4	2
89	Reply to comment by L. Fenoglio-Marc et al. on "On the steric and mass-induced contributions to the annual sea level variations in the Mediterranean Sea". <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	1
90	Evolving from Fry Fisheries to Early Life Research on Pelagic Fish Resources. , 2021, , 489-519.		1

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91	Corrigendum to "Exchange of planktonic biomass through the Strait of Gibraltar in late summer conditions", Deep-Sea Research Part II: Topical Studies in Oceanography, 2005, 52, 371-372.	0.6	0
92	Variabilidad oceánica y cambios de nivel del mar alrededor de la península ibérica, Baleares y Canarias. , 0, , 32-38.		0