Francisco J Sierro

List of Publications by Year
in descending order

70	4,637	126708 33	98622 67
papers	citations	h-index	g-index

70	70	70	3962
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Dansgaard-Oeschger and Heinrich event imprints in Alboran Sea paleotemperatures. Paleoceanography, 1999, 14, 698-705.	3.0	527
2	The Messinian Salinity Crisis: Past and future of a great challenge for marine sciences. Marine Geology, 2014, 352, 25-58.	0.9	436
3	Abrupt Temperature Changes in the Western Mediterranean over the Past 250,000 Years. Science, 2004, 306, 1762-1765.	6.0	410
4	Evidence for enhanced Mediterranean thermohaline circulation during rapid climatic coolings. Earth and Planetary Science Letters, 2000, 183, 417-429.	1.8	261
5	Age refinement of the Messinian salinity crisis onset in the Mediterranean. Terra Nova, 2013, 25, 315-322.	0.9	232
6	Correlation of Late Miocene to Early Pliocene sequences between the Mediterranean and North Atlantic. Paleoceanography, 2001, 16, 164-178.	3.0	229
7	Depositional history of estuarine infill during the last postglacial transgression (Gulf of Cadiz,) Tj ETQq1 1 0.784314 rgBT /Overlock 10	0.9	183
8	Evolution of the Late Miocene Mediterraneanâ€“Atlantic gateways and their impact on regional and global environmental change. Earth-Science Reviews, 2015, 150, 365-392.	4.0	171
9	Links between marine and atmospheric processes oscillating on a millennial time-scale. A multi-proxy study of the last 50,000yr from the Alboran Sea (Western Mediterranean Sea). Quaternary Science Reviews, 2005, 24, 1623-1636.	1.4	168
10	Onset of Mediterranean outflow into the North Atlantic. Science, 2014, 344, 1244-1250.	6.0	144
11	Ocean surface water response to short-term climate changes revealed by coccolithophores from the Gulf of Cadiz (NE Atlantic) and Alboran Sea (W Mediterranean). Palaeogeography, Palaeoclimatology, Palaeoecology, 2004, 205, 317-336.	1.0	138
12	Glacial rapid variability in deep-water temperature and Î´18O from the Western Mediterranean Sea. Quaternary Science Reviews, 2006, 25, 3294-3311.	1.4	110
13	The Gibraltar Corridor: Watergate of the Messinian Salinity Crisis. Marine Geology, 2018, 403, 238-246.	0.9	104
14	Global and regional factors controlling changes of coastlines in Southern Iberia (Spain) during the holocene. Quaternary Science Reviews, 1996, 15, 773-780.	1.4	95
15	Calcareous plankton dissolution pattern and coccolithophore assemblages during the last 600 kyr at ODP Site 1089 (Cape Basin, South Atlantic): paleoceanographic implications. Palaeogeography, Palaeoclimatology, Palaeoecology, 2003, 196, 409-426.	1.0	84
16	Phase relationship between sea level and abrupt climate change. Quaternary Science Reviews, 2009, 28, 2867-2881.	1.4	74
17	Surface water dynamics and phytoplankton communities during deposition of cyclic late Messinian sapropel sequences in the western Mediterranean. Marine Micropaleontology, 2005, 56, 50-79.	0.5	69
18	The replacement of theâ€œGloborotalia menardiiâ€•group by theGloborotalia miotumida group: An aid to recognizing the Tortonian-Messinian boundary in the Mediterranean and adjacent Atlantic. Marine Micropaleontology, 1985, 9, 525-535.	0.5	63

#	Article	IF	Citations
19	Seasonal and interannual changes of planktic foraminiferal fluxes in the Gulf of Lions (NW) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 5(records. Deep-Sea Research Part I: Oceanographic Research Papers, 2012, 66, 26-40.	0.6	63
20	Biometry of Emiliania huxleyi and its biostratigraphic significance in the Eastern North Atlantic Ocean and Western Mediterranean Sea in the last 20â€ˆ000 years. Marine Micropaleontology, 2002, 46, 247-263.	0.5	56
21	The use of circularly polarized light for biometry, identification and estimation of mass of coccoliths. Marine Micropaleontology, 2014, 113, 44-55.	0.5	54
22	Sonic and gamma-ray astrochronology: Cycle to cycle calibration of Atlantic climatic records to Mediterranean sapropels and astronomical oscillations. Geology, 2000, 28, 695.	2.0	52
23	Thick-skinned tectonics closing the Rifian Corridor. Tectonophysics, 2017, 710-711, 249-265.	0.9	45
24	Late Miocene contourite channel system reveals intermittent overflow behavior. Geology, 2020, 48, 1194-1199.	2.0	45
25	Synchronous onset of the Messinian evaporite precipitation: First Mediterranean offshore evidence. Earth and Planetary Science Letters, 2015, 427, 112-124.	1.8	44
26	Arctic front shifts in the subpolar North Atlantic during the Mid-Pleistocene (800â€“400ka) and their implications for ocean circulation. Palaeogeography, Palaeoclimatology, Palaeoecology, 2011, 311, 268-280.	1.0	43
27	Mediterranean Overflow Over the Last 250Âkyr: Freshwater Forcing From the Tropics to the Ice Sheets. Paleoceanography and Paleoclimatology, 2020, 35, e2020PA003931.	1.3	42
28	Sea surface distribution of coccolithophores in the eastern Pacific sector of the Southern Ocean (Bellingshausen and Amundsen Seas) during the late austral summer of 2001. Marine Micropaleontology, 2008, 69, 16-25.	0.5	39
29	Distribution of large Emiliania huxleyi in the Central and Northeast Atlantic as a tracer of surface ocean dynamics during the last 25,000years. Marine Micropaleontology, 2010, 76, 53-66.	0.5	39
30	Coccolithophore biodiversity controls carbonate export in the Southern Ocean. Biogeosciences, 2020, 17, 245-263.	1.3	38
31	Seasonal to interannual variability and geographic distribution of the silicoflagellate fluxes in the Western Mediterranean. Marine Micropaleontology, 2010, 77, 46-57.	0.5	37
32	Diatom fluxes in the NW Mediterranean: evidence from a 12-year sediment trap record and surficial sediments. Journal of Plankton Research, 2013, 35, 1109-1125.	0.8	37
33	Response of macrobenthic and foraminifer communities to changes in deep-sea environmental conditions from Marine Isotope Stage (MIS) 12 to 11 at the â€œShackleton Siteâ€• Global and Planetary Change, 2015, 133, 176-187.	1.6	35
34	Mediterranean isolation preconditioning the Earth System for late Miocene climate cooling. Scientific Reports, 2019, 9, 3795.	1.6	35
35	Quaternary chronostratigraphic framework and sedimentary processes for the Gulf of Cadiz and Portuguese Contourite Depositional Systems derived from Natural Gamma Ray records. Marine Geology, 2016, 377, 40-57.	0.9	32
36	The â€œWhite Oceanâ€•Hypothesis: A Late Pleistocene Southern Ocean Governed by Coccolithophores and Driven by Phosphorus. Frontiers in Microbiology, 2012, 3, 233.	1.5	29

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37	Atmospheric patterns driving Holocene productivity in the Alboran Sea (Western Mediterranean): A multiproxy approach. Holocene, 2015, 25, 583-595.	0.9	29
38	Paleomagnetic and paleoenvironmental implications of magnetofossil occurrences in late Miocene marine sediments from the Guadalquivir Basin, SW Spain. Frontiers in Microbiology, 2014, 5, 71.	1.5	26
39	Changes in western Mediterranean thermohaline circulation in association with a deglacial Organic Rich Layer formation in the Alboran Sea. Quaternary Science Reviews, 2020, 228, 106075.	1.4	20
40	Late neogene molluscan faunasfrom the Northeast Atlantic (Portugal, Spain, Morocco). Geobios, 1995, 28, 459-471.	0.7	19
41	Severe cooling episodes at the onset of deglaciations on the Southwestern Iberian margin from MIS 21 to 13 (IODP site U1385). Global and Planetary Change, 2015, 135, 159-169.	1.6	19
42	Early Pliocene climatic optimum, cooling and early glaciation deduced by terrestrial and marine environmental changes in SW Spain. Global and Planetary Change, 2019, 180, 89-99.	1.6	19
43	Benthic foraminifera-based reconstruction of the first Mediterranean-Atlantic exchange in the early Pliocene Gulf of Cadiz. Palaeogeography, Palaeoclimatology, Palaeoecology, 2017, 472, 93-107.	1.0	17
44	New age constraints on the western Betic intramontane basins: A late Tortonian closure of the Guadalhorce Corridor?. Terra Nova, 2018, 30, 325-332.	0.9	17
45	Imprint of Messinian Salinity Crisis events on the Spanish Atlantic margin. Newsletters on Stratigraphy, 2018, 51, 93-115.	0.5	16
46	Impact of the Mediterranean-Atlantic connectivity and the late Miocene carbon shift on deep-sea communities in the Western Alboran Basin. Palaeogeography, Palaeoclimatology, Palaeoecology, 2022, 589, 110841.	1.0	16
47	Coccolithophore populations and their contribution to carbonate export during an annual cycle in the Australian sector of the Antarctic zone. Biogeosciences, 2018, 15, 1843-1862.	1.3	15
48	High-resolution productivity record and reconstruction of ENSO dynamics during the Holocene in the Eastern Equatorial Pacific using coccolithophores. Holocene, 2014, 24, 176-187.	0.9	14
49	Origin and implications of orbital-induced sedimentary cyclicity in Pliocene well-logs of the Western Mediterranean. Marine Geology, 2018, 403, 150-164.	0.9	14
50	Messinian West Alboran Sea record in the proximity of Gibraltar: Early signs of Atlantic-Mediterranean gateway restriction. Marine Geology, 2021, 434, 106430.	0.9	14
51	Monitoring fluctuations of the Subtropical Front in the Tasman Sea between 3.45 and 2.45Ma (ODP site) Tj ETQq1 1 0.784314 rgBT /O	1.0	13
52	Ocean-atmosphere interconnections from the last interglacial to the early glacial: An integration of marine and cave records in the Iberian region. Quaternary Science Reviews, 2019, 226, 106037.	1.4	13
53	A new perspective of the Alboran Upwelling System reconstruction during the Marine Isotope Stage 11: A high-resolution coccolithophore record. Quaternary Science Reviews, 2020, 245, 106520.	1.4	13
54	Miocene to Pleistocene osmium isotopic records of the Mediterranean sediments. Paleoceanography, 2016, 31, 148-166.	3.0	12

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55	Change in the North Atlantic circulation associated with the mid-Pleistocene transition. Climate of the Past, 2018, 14, 1639-1651.	1.3	10
56	Latest Miocene restriction of the Mediterranean Outflow Water: a perspective from the Gulf of CÃ¡diz. Geo-Marine Letters, 2021, 41, 1.	0.5	9
57	Alpine Foreland Basins. Regional Geology Reviews, 2019, , 7-59.	1.2	7
58	Meltwater flux from northern ice-sheets to the mediterranean during MIS 12. Quaternary Science Reviews, 2021, 268, 107108.	1.4	7
59	Late Miocene contourite depositional system of the Gulf of CÃ¡diz: The sedimentary signature of the paleo-Mediterranean Outflow Water. Marine Geology, 2021, 442, 106605.	0.9	7
60	Thermal impact of Heinrich stadials in cave temperature and speleothem oxygen isotope records. Quaternary Research, 0, , 1-14.	1.0	6
61	Temperature and stable isotope variations in different water masses from the Alboran Sea (Western) Tj ETQq1 1 0.784314 rgBT /Over	1.0	3
62	Low-Latitude Miocene Calcareous and Siliceous Microfossil Biostratigraphy from NW South America: Ladrilleros-Juanchaco Section, Colombian Pacific. Ameghiniana, 2016, 53, 629-644.	0.3	3
63	Deciphering latitudinal shifts in coccolith accumulation in the eastern tropical Pacific Ocean through the Pleistocene. Marine Micropaleontology, 2019, 152, 101739.	0.5	3
64	Late Miocene evolution of the eastern Deep Algarve basin: Interaction of bottom currents and gravitational processes in a foredeep setting. Marine and Petroleum Geology, 2022, 141, 105695.	1.5	3
65	Globorotalia truncatulinoides in the Mediterranean Basin during the Middleâ€“Late Holocene: Bio-Chronological and Oceanographic Indicator. Geosciences (Switzerland), 2022, 12, 244.	1.0	3
66	Paleocirculation and paleoclimate conditions in the western Mediterranean basins over the last deglaciation: New insights from sediment composition variations. Global and Planetary Change, 2022, 209, 103732.	1.6	2
67	An exceptional record of millennial-scale climate variability in the southern Iberian Margin during MIS 6: Impact on the formation of sapropel S6. Quaternary Science Reviews, 2022, 286, 107527.	1.4	2
68	First record of middle Miocene marine diatoms from the Colombian Pacific (NW South America) and their paleoceanographic significance. Marine Micropaleontology, 2018, 140, 17-32.	0.5	1
69	Tide-dominated deltas responding to high-frequency sea-level changes, Pre-Messinian Rifian Corridor, Morocco: Discussion. Journal of Sedimentary Research, 2021, 91, 876-879.	0.8	1
70	Trace fossil characterization during Termination V and MIS 11 at the western Mediterranean: Connection between surface conditions and deep environment. Marine Geology, 2022, 446, 106774.	0.9	1