Francisco J Sierro

List of Publications by Citations

69 papers	3,759 citations	29 h-index	61 g-index
70 ext. papers	4,202 ext. citations	4.1 avg, IF	4.87 L-index

#	Paper	IF	Citations
69	Dansgaard-Oeschger and Heinrich event imprints in Alboran Sea paleotemperatures. *Paleoceanography*, **1999**, 14, 698-705		453
68	Abrupt temperature changes in the Western Mediterranean over the past 250,000 years. *Science*, **2004**, 306, 1762-5	33.3	368
67	The Messinian Salinity Crisis: Past and future of a great challenge for marine sciences. *Marine Geology*, **2014**, 352, 25-58	3.3	328
66	Evidence for enhanced Mediterranean thermohaline circulation during rapid climatic coolings. *Earth and Planetary Science Letters*, **2000**, 183, 417-429	5.3	234
65	Correlation of Late Miocene to Early Pliocene sequences between the Mediterranean and North Atlantic. *Paleoceanography*, **2001**, 16, 164-178		199
64	Age refinement of the Messinian salinity crisis onset in the Mediterranean. *Terra Nova*, **2013**, 25, 315-322	3	184
63	Depositional history of estuarine infill during the last postglacial transgression (Gulf of Cadiz, Southern Spain). *Marine Geology*, **2000**, 162, 381-404	3.3	159
62	Links between marine and atmospheric processes oscillating on a millennial time-scale. A multi-proxy study of the last 50,000 yr from the Alboran Sea (Western Mediterranean Sea). *Quaternary Science Reviews*, **2005**, 24, 1623-1636	3.9	154
61	Evolution of the Late Miocene Mediterranean–Atlantic gateways and their impact on regional and global environmental change. *Earth-Science Reviews*, **2015**, 150, 365-392	10.2	136
60	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	2.9	124
59	Paleoceanography. Onset of Mediterranean outflow into the North Atlantic. *Science*, **2014**, 344, 1244-50	33.3	119
58	Glacial rapid variability in deep-water temperature and δ18O from the Western Mediterranean Sea. *Quaternary Science Reviews*, **2006**, 25, 3294-3311	3.9	99
57	Global and regional factors controlling changes of coastlines in Southern Iberia (Spain) during the holocene. *Quaternary Science Reviews*, **1996**, 15, 773-780	3.9	84
56	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	2.9	66
55	The Gibraltar Corridor: Watergate of the Messinian Salinity Crisis. *Marine Geology*, **2018**, 403, 238-246	3.3	65
54	Phase relationship between sea level and abrupt climate change. *Quaternary Science Reviews*, **2009**, 28, 2867-2881	3.9	64
53	Surface water dynamics and phytoplankton communities during deposition of cyclic late Messinian sapropel sequences in the western Mediterranean. *Marine Micropaleontology*, **2005**, 56, 50-79	1.7	57

52	The replacement of the Globorotalia menardii group by the Globorotalia miotumida group: An aid to recognizing the Tortonian-Messinian boundary in the Mediterranean and adjacent Atlantic. *Marine Micropaleontology*, **1985**, 9, 525-535	1.7	50
51	Biometry of Emiliania huxleyi and its biostratigraphic significance in the Eastern North Atlantic Ocean and Western Mediterranean Sea in the last 20 000 years. *Marine Micropaleontology*, **2002**, 46, 247-263	1.7	49
50	Seasonal and interannual changes of planktic foraminiferal fluxes in the Gulf of Lions (NW Mediterranean) and their implications for paleoceanographic studies: Two 12-year sediment trap records. *Deep-Sea Research Part I: Oceanographic Research Papers*, **2012**, 66, 26-40	2.5	48
49	Sonic and gamma-ray astrochronology: Cycle to cycle calibration of Atlantic climatic records to Mediterranean sapropels and astronomical oscillations. *Geology*, **2000**, 28, 695	5	39
48	The use of circularly polarized light for biometry, identification and estimation of mass of coccoliths. *Marine Micropaleontology*, **2014**, 113, 44-55	1.7	38
47	Thick-skinned tectonics closing the Rifian Corridor. *Tectonophysics*, **2017**, 710-711, 249-265	3.1	37
46	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	1.7	36
45	Seasonal to interannual variability and geographic distribution of the silicoflagellate fluxes in the Western Mediterranean. *Marine Micropaleontology*, **2010**, 77, 46-57	1.7	34
44	Arctic front shifts in the subpolar North Atlantic during the Mid-Pleistocene (800–400ka) and their implications for ocean circulation. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **2011**, 311, 268-280	2.9	33
43	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	2.2	32
42	Synchronous onset of the Messinian evaporite precipitation: First Mediterranean offshore evidence. *Earth and Planetary Science Letters*, **2015**, 427, 112-124	5.3	30
41	Response of macrobenthic and foraminifer communities to changes in deep-sea environmental conditions from Marine Isotope Stage (MIS) 12 to 11 at the Shackleton Site. *Global and Planetary Change*, **2015**, 133, 176-187	4.2	30
40	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	1.7	29
39	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	3.3	26
38	Late Miocene contourite channel system reveals intermittent overflow behavior. *Geology*, **2020**, 48, 1194-1199	5	26
37	Atmospheric patterns driving Holocene productivity in the Alboran Sea (Western Mediterranean): A multiproxy approach. *Holocene*, **2015**, 25, 583-595	2.6	24
36	Mediterranean isolation preconditioning the Earth System for late Miocene climate cooling. *Scientific Reports*, **2019**, 9, 3795	4.9	23
35	Coccolithophore biodiversity controls carbonate export in the Southern Ocean. *Biogeosciences*, **2020**, 17, 245-263	4.6	22

34	The "white ocean" hypothesis: a late pleistocene southern ocean governed by coccolithophores and driven by phosphorus. *Frontiers in Microbiology*, **2012**, 3, 233	5.7	22
33	Mediterranean Overflow Over the Last 250 kyr: Freshwater Forcing From the Tropics to the Ice Sheets. *Paleoceanography and Paleoclimatology*, **2020**, 35, e2020PA003931	3.3	22
32	Paleomagnetic and paleoenvironmental implications of magnetofossil occurrences in late Miocene marine sediments from the Guadalquivir Basin, SW Spain. *Frontiers in Microbiology*, **2014**, 5, 71	5.7	21
31	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	3.9	16
30	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	4.2	14
29	Late neogene molluscan faunasfrom the Northeast Atlantic (Portugal, Spain, Morocco). *Geobios*, **1995**, 28, 459-471	1.5	14
28	Benthic foraminifera-based reconstruction of the first Mediterranean-Atlantic exchange in the early Pliocene Gulf of Cadiz. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **2017**, 472, 93-107	2.9	13
27	New age constraints on the western Betic intramontane basins: A late Tortonian closure of the Guadalhorce Corridor?. *Terra Nova*, **2018**, 30, 325-332	3	12
26	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	4.6	12
25	High-resolution productivity record and reconstruction of ENSO dynamics during the Holocene in the Eastern Equatorial Pacific using coccolithophores. *Holocene*, **2014**, 24, 176-187	2.6	11
24	Imprint of Messinian Salinity Crisis events on the Spanish Atlantic margin. *Newsletters on Stratigraphy*, **2018**, 51, 93-115	2.9	11
23	Miocene to Pleistocene osmium isotopic records of the Mediterranean sediments. *Paleoceanography*, **2016**, 31, 148-166		10
22	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	4.2	9
21	Monitoring fluctuations of the Subtropical Front in the Tasman Sea between 3.45 and 2.45 Ma (ODP site 1172). *Palaeogeography, Palaeoclimatology, Palaeoecology*, **2012**, 313-314, 215-224	2.9	9
20	Origin and implications of orbital-induced sedimentary cyclicity in Pliocene well-logs of the Western Mediterranean. *Marine Geology*, **2018**, 403, 150-164	3.3	8
19	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	3.9	8
18	Messinian West Alboran Sea record in the proximity of Gibraltar: Early signs of Atlantic-Mediterranean gateway restriction. *Marine Geology*, **2021**, 434, 106430	3.3	7
17	Change in the North Atlantic circulation associated with the mid-Pleistocene transition. *Climate of the Past*, **2018**, 14, 1639-1651	3.9	6

16	Alpine Foreland Basins. *Regional Geology Reviews*, **2019**, 7-59	2.5	5
15	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	3.9	5
14	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	2.9	4
13	Deciphering latitudinal shifts in coccolith accumulation in the eastern tropical Pacific Ocean through the Pleistocene. *Marine Micropaleontology*, **2019**, 152, 101739	1.7	3
12	Temperature and stable isotope variations in different water masses from the Alboran Sea (Western Mediterranean) between 250 and 150 ka. *Geochemistry, Geophysics, Geosystems*, **2008**, 9, n/a-n/a	2.6	3
11	Latest Miocene restriction of the Mediterranean Outflow Water: a perspective from the Gulf of C□diz. *Geo-Marine Letters*, **2021**, 41, 1	1.9	3
10	Low-Latitude Miocene Calcareous and Siliceous Microfossil Biostratigraphy from NW South America: Ladrilleros-Juanchaco Section, Colombian Pacific. *Ameghiniana*, **2016**, 53, 629-644	0.9	3
9	Late Miocene contourite depositional system of the Gulf of C□diz: The sedimentary signature of the paleo-Mediterranean Outflow Water. *Marine Geology*, **2021**, 442, 106605	3.3	3
8	Thermal impact of Heinrich stadials in cave temperature and speleothem oxygen isotope records. *Quaternary Research*,1-14	1.9	2
7	First record of middle Miocene marine diatoms from the Colombian Pacific (NW South America) and their paleoceanographic significance. *Marine Micropaleontology*, **2018**, 140, 17-32	1.7	1
6	Tide-dominated deltas responding to high-frequency sea-level changes, Pre-Messinian Rifian Corridor, Morocco: Discussion. *Journal of Sedimentary Research*, **2021**, 91, 876-879	2.1	1
5	Meltwater flux from northern ice-sheets to the mediterranean during MIS 12. *Quaternary Science Reviews*, **2021**, 268, 107108	3.9	1
4	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**, 105695	4.7	1
3	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	4.2	0
2	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	3.3	
1	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	3.9	