

# F Javier Hernandez-Molina

## List of Publications by Citations

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75  
papers

2,321  
citations

24  
h-index

47  
g-index

79  
ext. papers

2,797  
ext. citations

4.2  
avg, IF

5.2  
L-index

#	Paper	IF	Citations
75	Contourites and associated sediments controlled by deep-water circulation processes: State-of-the-art and future considerations. <i>Marine Geology</i> , <b>2014</b> , 352, 111-154	3.3	458
74	Bedform-velocity matrix: The estimation of bottom current velocity from bedform observations. <i>Geology</i> , <b>2009</b> , 37, 327-330	5	180
73	Contourite depositional system on the Argentine Slope: An exceptional record of the influence of Antarctic water masses. <i>Geology</i> , <b>2009</b> , 37, 507-510	5	137
72	Paleoceanography. Onset of Mediterranean outflow into the North Atlantic. <i>Science</i> , <b>2014</b> , 344, 1244-5033	3.3	119
71	Morphosedimentary and hydrographic features of the northern Argentine margin: The interplay between erosive, depositional and gravitational processes and its conceptual implications. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , <b>2013</b> , 75, 157-174	2.5	107
70	Along-slope oceanographic processes and sedimentary products around the Iberian margin. <i>Geo-Marine Letters</i> , <b>2011</b> , 31, 315-341	1.9	88
69	Deciphering bottom current velocity and paleoclimate signals from contourite deposits in the Gulf of Cádiz during the last 140 kyr: An inorganic geochemical approach. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2014</b> , 15, 3145-3160	3.6	76
68	Significance of bottom currents in deep-sea morphodynamics: An example from the Alboran Sea. <i>Marine Geology</i> , <b>2016</b> , 378, 157-170	3.3	64
67	A contourite depositional system along the Uruguayan continental margin: Sedimentary, oceanographic and paleoceanographic implications. <i>Marine Geology</i> , <b>2016</b> , 378, 333-349	3.3	54
66	The Mediterranean Overflow in the Gulf of Cadiz: A rugged journey. <i>Science Advances</i> , <b>2017</b> , 3, eaao0609	14.3	49
65	Oceanographic processes and morphosedimentary products along the Iberian margins: A new multidisciplinary approach. <i>Marine Geology</i> , <b>2016</b> , 378, 127-156	3.3	46
64	Channel-levee evolution in combined contour current turbidity current flows from flume-tank experiments. <i>Geology</i> , <b>2020</b> , 48, 353-357	5	42
63	Ichnological analysis of contourites: Past, present and future. <i>Earth-Science Reviews</i> , <b>2018</b> , 182, 28-41	10.2	41
62	Pliocene-Quaternary contourites along the northern Gulf of Cadiz margin: sedimentary stacking pattern and regional distribution. <i>Geo-Marine Letters</i> , <b>2011</b> , 31, 377-390	1.9	41
61	Textural characteristics and facies of sand-rich contourite depositional systems. <i>Sedimentology</i> , <b>2018</b> , 65, 2223-2252	3.3	40
60	Seismic evidence of current-controlled sedimentation in the Alboran Sea during the Pliocene and Quaternary: Palaeoceanographic implications. <i>Marine Geology</i> , <b>2016</b> , 378, 292-311	3.3	38
59	Sedimentary growth pattern on the northern Argentine slope: The impact of North Atlantic Deep Water on southern hemisphere slope architecture. <i>Marine Geology</i> , <b>2012</b> , 329-331, 113-125	3.3	35

58	Contourite distribution and bottom currents in the NW Mediterranean Sea: Coupling seafloor geomorphology and hydrodynamic modelling. <i>Geomorphology</i> , <b>2019</b> , 333, 43-60	4.3	35
57	Erosive sub-circular depressions on the Guadalquivir Bank (Gulf of Cadiz): Interaction between bottom current, mass-wasting and tectonic processes. <i>Marine Geology</i> , <b>2016</b> , 378, 5-19	3.3	31
56	Contourite facies model: Improving contourite characterization based on the ichnological analysis. <i>Sedimentary Geology</i> , <b>2019</b> , 384, 60-69	2.8	30
55	Contourite depositional systems along the Mozambique channel: The interplay between bottom currents and sedimentary processes. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , <b>2019</b> , 147, 79-99	2.5	28
54	Quaternary chronostratigraphic framework and sedimentary processes for the Gulf of Cadiz and Portuguese Contourite Depositional Systems derived from Natural Gamma Ray records. <i>Marine Geology</i> , <b>2016</b> , 377, 40-57	3.3	26
53	Late Miocene contourite channel system reveals intermittent overflow behavior. <i>Geology</i> , <b>2020</b> , 48, 1194-1199	4.26	26
52	Middle Miocene reworked turbidites in the Baiyun Sag of the Pearl River Mouth Basin, northern South China Sea margin: Processes, genesis, and implications. <i>Journal of Asian Earth Sciences</i> , <b>2016</b> , 128, 116-129	2.8	24
51	Mediterranean isolation preconditioning the Earth System for late Miocene climate cooling. <i>Scientific Reports</i> , <b>2019</b> , 9, 3795	4.9	23
50	Furrows in the southern Scan Basin, Antarctica: interplay between tectonic and oceanographic influences. <i>Geo-Marine Letters</i> , <b>2011</b> , 31, 451-464	1.9	23
49	Contourites within a deep-water sequence stratigraphic framework. <i>Geo-Marine Letters</i> , <b>2011</b> , 31, 343-360	3.0	23
48	Mediterranean Overflow Over the Last 250 kyr: Freshwater Forcing From the Tropics to the Ice Sheets. <i>Paleoceanography and Paleoclimatology</i> , <b>2020</b> , 35, e2020PA003931	3.3	22
47	Erosional and depositional contourite features at the transition between the western Scotia Sea and southern South Atlantic Ocean: links with regional water-mass circulation since the Middle Miocene. <i>Geo-Marine Letters</i> , <b>2015</b> , 35, 271-288	1.9	21
46	The influence of oceanographic processes on contourite features: A multidisciplinary study of the northern South China Sea. <i>Marine Geology</i> , <b>2019</b> , 415, 105967	3.3	20
45	Diagnostic criteria using microfacies for calcareous contourites, turbidites and pelagites in the Eocene-Miocene slope succession, southern Cyprus. <i>Sedimentology</i> , <b>2021</b> , 68, 557-592	3.3	20
44	Mass transport processes in the southern Scotia Sea: Evidence of paleoearthquakes. <i>Global and Planetary Change</i> , <b>2014</b> , 123, 374-391	4.2	19
43	Tectonic development, sedimentation and paleoceanography of the Scan Basin (southern Scotia Sea, Antarctica). <i>Global and Planetary Change</i> , <b>2014</b> , 123, 344-358	4.2	18
42	Seismic stratigraphic framework and depositional history for Cretaceous and Cenozoic contourite depositional systems of the Mozambique Channel, SW Indian Ocean. <i>Marine Geology</i> , <b>2020</b> , 425, 106192	3.3	17
41	Depositional processes and growth patterns of isolated oceanic basins: the Protector and Pirie basins of the Southern Scotia Sea (Antarctica). <i>Marine Geology</i> , <b>2014</b> , 357, 163-181	3.3	17

40	Key evidence for distal turbiditic- and bottom-current interactions from tubular turbidite infills. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , <b>2019</b> , 533, 109233	2.9	16
39	Tectonic activity evolution of the Scotia-Antarctic Plate boundary from mass transport deposit analysis. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2016</b> , 121, 2216-2234	3.6	16
38	Neogene to Quaternary stratigraphic evolution of the Antarctic Peninsula, Pacific Margin offshore of Adelaide Island: Transitions from a non-glacial, through glacially-influenced to a fully glacial state. <i>Global and Planetary Change</i> , <b>2017</b> , 156, 80-111	4.2	16
37	The impact of internal waves on upper continental slopes: insights from the Mozambican margin (southwest Indian Ocean). <i>Earth Surface Processes and Landforms</i> , <b>2020</b> , 45, 1469-1482	3.7	15
36	Geomorphology of the Iberian Continental Margin. <i>Geomorphology</i> , <b>2013</b> , 196, 13-35	4.3	15
35	Contourite characterization and its discrimination from other deep-water deposits in the Gulf of Cadiz contourite depositional system. <i>Sedimentology</i> , <b>2021</b> , 68, 987-1027	3.3	14
34	Review of the late Quaternary stratigraphy of the northern Gulf of Cadiz continental margin: New insights into controlling factors and global implications. <i>Earth-Science Reviews</i> , <b>2019</b> , 198, 102944	10.2	13
33	Multiple factors controlling the deep marine sedimentation of the Alboran Sea (SW Mediterranean) after the Zanclean Atlantic Mega-flood. <i>Marine Geology</i> , <b>2020</b> , 423, 106138	3.3	12
32	Geomorphological and sedimentary processes of the glacially influenced northwestern Iberian continental margin and abyssal plains. <i>Geomorphology</i> , <b>2018</b> , 312, 60-85	4.3	11
31	Oceanographic and climatic consequences of the tectonic evolution of the southern scotia sea basins, Antarctica. <i>Earth-Science Reviews</i> , <b>2019</b> , 198, 102922	10.2	11
30	Contourites along the Iberian continental margins: conceptual and economic implications. <i>Geological Society Special Publication</i> , <b>2020</b> , 476, 403-436	1.7	11
29	Sedimentary processes and cold-water coral mini-mounds at the Ferrol canyon head, NW Iberian margin. <i>Progress in Oceanography</i> , <b>2018</b> , 169, 48-65	3.8	10
28	High-resolution seismic stratigraphy and morphology of the Scan Basin contourite fan, southern Scotia Sea, Antarctica. <i>Marine Geology</i> , <b>2016</b> , 378, 361-373	3.3	10
27	Multiprocess interaction shaping geofoms and controlling substrate types and benthic community distribution in the Gulf of Cádiz. <i>Marine Geology</i> , <b>2020</b> , 423, 106139	3.3	10
26	Late Quaternary multi-genetic processes and products on the northern Gulf of Cadiz upper continental slope (SW Iberian Peninsula). <i>Marine Geology</i> , <b>2020</b> , 427, 106214	3.3	9
25	Lateral variability of ichnofabrics in marine cores: Improving sedimentary basin analysis using Computed Tomography images and high-resolution digital treatment. <i>Marine Geology</i> , <b>2018</b> , 397, 72-78	3.3	8
24	Quantitative characterisation of contourite deposits using medical CT. <i>Marine Geology</i> , <b>2019</b> , 417, 106003	3.3	8
23	Contourite depositional system after the exit of a strait: Case study from the late Miocene South Rifian Corridor, Morocco. <i>Sedimentology</i> ,	3.3	8

22	Seasonal variability of intermediate water masses in the Gulf of Cádiz: implications of the Antarctic and subarctic seesaw. <i>Ocean Science</i> , <b>2019</b> , 15, 1381-1397	4	8
21	Deep-water dunes on drowned isolated carbonate terraces (Mozambique Channel, south-west Indian Ocean). <i>Sedimentology</i> , <b>2019</b> , 66, 1222-1242	3.3	8
20	A synthesis of the sedimentary evolution of the Demerara Plateau (Central Atlantic Ocean) from the late Albian to the Holocene. <i>Marine and Petroleum Geology</i> , <b>2020</b> , 114, 104195	4.7	6
19	Morphological features and associated bottom-current dynamics in the Le Danois Bank region (southern Bay of Biscay, NE Atlantic): A model in a topographically constrained small basin. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , <b>2019</b> , 149, 103054	2.5	5
18	Fault-controlled contourite drifts in the southern South China Sea: Tectonic, oceanographic, and conceptual implications. <i>Marine Geology</i> , <b>2021</b> , 433, 106420	3.3	5
17	The erosive power of the Malvinas Current: Influence of bottom currents on morpho-sedimentary features along the northern Argentine margin (SW Atlantic Ocean). <i>Marine Geology</i> , <b>2021</b> , 439, 106539	3.3	5
16	First Record of Graphoglyptids in Cyprus: Indicative Presence of Turbidite Deposits at the Pakhna Formation. <i>Ichnos</i> , <b>2020</b> , 27, 237-243	0.9	4
15	Isolation of the South China Sea from the North Pacific Subtropical Gyre since the latest Miocene due to formation of the Luzon Strait. <i>Scientific Reports</i> , <b>2021</b> , 11, 1562	4.9	4
14	Geomorphology of Ona Basin, southwestern Scotia Sea (Antarctica): Decoding the spatial variability of bottom-current pathways. <i>Marine Geology</i> , <b>2020</b> , 422, 106113	3.3	3
13	Recognizing key sedimentary facies and their distribution in mixed turbidite-contourite depositional systems: The case of the Pacific margin of the Antarctic Peninsula. <i>Sedimentology</i> ,	3.3	3
12	Sedimentary evolution of the Le Danois contourite drift systems (southern Bay of Biscay, NE Atlantic): A reconstruction of the Atlantic Mediterranean Water circulation since the Pliocene. <i>Marine Geology</i> , <b>2020</b> , 427, 106217	3.3	3
11	Latest Miocene restriction of the Mediterranean Outflow Water: a perspective from the Gulf of Cádiz. <i>Geo-Marine Letters</i> , <b>2021</b> , 41, 1	1.9	3
10	Late Miocene contourite depositional system of the Gulf of Cádiz: The sedimentary signature of the paleo-Mediterranean Outflow Water. <i>Marine Geology</i> , <b>2021</b> , 442, 106605	3.3	3
9	Virtual special issue on IODP Expedition 339: The Mediterranean outflow. <i>Global and Planetary Change</i> , <b>2016</b> , 144, 263-269	4.2	2
8	Reply to comment on Technological analysis of contourites: Past, present and future [by Francisco J. Rodríguez-Tovar and F. Javier Hernández-Molina [Earth-Science Reviews, 182 (2018), 28-41]. <i>Earth-Science Reviews</i> , <b>2018</b> , 184, 50-51	10.2	1
7	IODP workshop: developing scientific drilling proposals for the Argentina Passive Volcanic Continental Margin (APVCM) basin evolution, deep biosphere, hydrates, sediment dynamics and ocean evolution. <i>Scientific Drilling</i> , <b>2022</b> , 49-61		1
6	Contourite processes associated with the overflow of Pacific Deep Water within the Luzon Trough: Conceptual and regional implications. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , <b>2021</b> , 170, 103459	2.5	1
5	Tide-dominated deltas responding to high-frequency sea-level changes, Pre-Messinian Rifian Corridor, Morocco: Discussion. <i>Journal of Sedimentary Research</i> , <b>2021</b> , 91, 876-879	2.1	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 Progressive intensification of Pacific Deep Water circulation since the early Pliocene. *Geophysical Research Letters*, 4.9 0
- 2 Sequential bedform development in mixed turbidite-contourite systems: An example from the Cosmonaut Sea, East Antarctica. *Geomorphology*, **2022**, 410, 108287 4.3 0
- 1 Structural control and tectono-sedimentary evolution of the Gulf of Cadiz, SW Iberia since the late Miocene: Implications for contourite depositional system. *Marine Geology*, **2022**, 106818 3.3