

F Javier Hernández-Molina

List of Publications by Year in descending order

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Version: 2024-02-01

75
papers

3,071
citations

159358

30
h-index

168136

53
g-index

79
all docs

79
docs citations

79
times ranked

1911
citing authors

#	ARTICLE	IF	CITATIONS
1	Contourites and associated sediments controlled by deep-water circulation processes: State-of-the-art and future considerations. <i>Marine Geology</i> , 2014, 352, 111-154.	0.9	582
2	Bedform-velocity matrix: The estimation of bottom current velocity from bedform observations. <i>Geology</i> , 2009, 37, 327-330.	2.0	231
3	Contourite depositional system on the Argentine Slope: An exceptional record of the influence of Antarctic water masses. <i>Geology</i> , 2009, 37, 507-510.	2.0	160
4	Onset of Mediterranean outflow into the North Atlantic. <i>Science</i> , 2014, 344, 1244-1250.	6.0	144
5	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> , 2013, 75, 157-174.	0.6	126
6	Along-slope oceanographic processes and sedimentary products around the Iberian margin. <i>Geo-Marine Letters</i> , 2011, 31, 315-341.	0.5	106
7	Deciphering bottom current velocity and paleoclimate signals from contourite deposits in the Gulf of Cadiz during the last 140 kyr: An inorganic geochemical approach. <i>Geochemistry, Geophysics, Geosystems</i> , 2014, 15, 3145-3160.	1.0	86
8	Significance of bottom currents in deep-sea morphodynamics: An example from the Alboran Sea. <i>Marine Geology</i> , 2016, 378, 157-170.	0.9	81
9	A contourite depositional system along the Uruguayan continental margin: Sedimentary, oceanographic and paleoceanographic implications. <i>Marine Geology</i> , 2016, 378, 333-349.	0.9	69
10	The Mediterranean Overflow in the Gulf of Cadiz: A rugged journey. <i>Science Advances</i> , 2017, 3, eaao0609.	4.7	66
11	Channel-levee evolution in combined contour current-turbidity current flows from flume-tank experiments. <i>Geology</i> , 2020, 48, 353-357.	2.0	64
12	Oceanographic processes and morphosedimentary products along the Iberian margins: A new multidisciplinary approach. <i>Marine Geology</i> , 2016, 378, 127-156.	0.9	60
13	Textural characteristics and facies of sand-rich contourite depositional systems. <i>Sedimentology</i> , 2018, 65, 2223-2252.	1.6	55
14	Contourite distribution and bottom currents in the NW Mediterranean Sea: Coupling seafloor geomorphology and hydrodynamic modelling. <i>Geomorphology</i> , 2019, 333, 43-60.	1.1	53
15	Ichnological analysis of contourites: Past, present and future. <i>Earth-Science Reviews</i> , 2018, 182, 28-41.	4.0	51
16	Seismic evidence of current-controlled sedimentation in the Alboran Sea during the Pliocene and Quaternary: Palaeoceanographic implications. <i>Marine Geology</i> , 2016, 378, 292-311.	0.9	47
17	Pliocene-Quaternary contourites along the northern Gulf of Cadiz margin: sedimentary stacking pattern and regional distribution. <i>Geo-Marine Letters</i> , 2011, 31, 377-390.	0.5	46
18	Late Miocene contourite channel system reveals intermittent overflow behavior. <i>Geology</i> , 2020, 48, 1194-1199.	2.0	45

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19	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> , 2019, 147, 79-99.	0.6	43
20	Mediterranean Overflow Over the Last 250 kyr: Freshwater Forcing From the Tropics to the Ice Sheets. <i>Paleoceanography and Paleoclimatology</i> , 2020, 35, e2020PA003931.	1.3	42
21	Sedimentary growth pattern on the northern Argentine slope: The impact of North Atlantic Deep Water on southern hemisphere slope architecture. <i>Marine Geology</i> , 2012, 329-331, 113-125.	0.9	41
22	Contourite characterization and its discrimination from other deep-water deposits in the Gulf of Cadiz contourite depositional system. <i>Sedimentology</i> , 2021, 68, 987-1027.	1.6	37
23	Erosive sub-circular depressions on the Guadalquivir Bank (Gulf of Cadiz): Interaction between bottom current, mass-wasting and tectonic processes. <i>Marine Geology</i> , 2016, 378, 5-19.	0.9	36
24	The influence of oceanographic processes on contourite features: A multidisciplinary study of the northern South China Sea. <i>Marine Geology</i> , 2019, 415, 105967.	0.9	35
25	Mediterranean isolation preconditioning the Earth System for late Miocene climate cooling. <i>Scientific Reports</i> , 2019, 9, 3795.	1.6	35
26	Contourite facies model: Improving contourite characterization based on the ichnological analysis. <i>Sedimentary Geology</i> , 2019, 384, 60-69.	1.0	35
27	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> , 2016, 128, 116-129.	1.0	33
28	The impact of internal waves on upper continental slopes: insights from the Mozambican margin (southwest Indian Ocean). <i>Earth Surface Processes and Landforms</i> , 2020, 45, 1469-1482.	1.2	33
29	Diagnostic criteria using microfacies for calcareous contourites, turbidites and pelagites in the Eocene-Miocene slope succession, southern Cyprus. <i>Sedimentology</i> , 2021, 68, 557-592.	1.6	33
30	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> , 2016, 377, 40-57.	0.9	32
31	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> , 2015, 35, 271-288.	0.5	29
32	Contourites within a deep-water sequence stratigraphic framework. <i>Geo-Marine Letters</i> , 2011, 31, 343-360.	0.5	27
33	Furrows in the southern Scan Basin, Antarctica: interplay between tectonic and oceanographic influences. <i>Geo-Marine Letters</i> , 2011, 31, 451-464.	0.5	25
34	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> , 2017, 156, 80-111.	1.6	24
35	Seismic stratigraphic framework and depositional history for Cretaceous and Cenozoic contourite depositional systems of the Mozambique Channel, SW Indian Ocean. <i>Marine Geology</i> , 2020, 425, 106192.	0.9	24
36	Tectonic development, sedimentation and paleoceanography of the Scan Basin (southern Scotia Sea), Tj ETQq0 0 Q rgBT /Overlock 10 T	1.6	21

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37	Depositional processes and growth patterns of isolated oceanic basins: the Protector and Pirie basins of the Southern Scotia Sea (Antarctica). <i>Marine Geology</i> , 2014, 357, 163-181.	0.9	21
38	Contourite depositional system after the exit of a strait: Case study from the late Miocene South Rifian Corridor, Morocco. <i>Sedimentology</i> , 2021, 68, 2996-3032.	1.6	21
39	Mass transport processes in the southern Scotia Sea: Evidence of paleoearthquakes. <i>Global and Planetary Change</i> , 2014, 123, 374-391.	1.6	20
40	Oceanographic and climatic consequences of the tectonic evolution of the southern scotia sea basins, Antarctica. <i>Earth-Science Reviews</i> , 2019, 198, 102922.	4.0	20
41	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> , 2019, 198, 102944.	4.0	20
42	Geomorphology of the Iberian Continental Margin. <i>Geomorphology</i> , 2013, 196, 13-35.	1.1	19
43	Contourites along the Iberian continental margins: conceptual and economic implications. <i>Geological Society Special Publication</i> , 2020, 476, 403-436.	0.8	19
44	Key evidence for distal turbiditic- and bottom-current interactions from tubular turbidite infills. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2019, 533, 109233.	1.0	18
45	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> , 2021, 439, 106539.	0.9	18
46	Tectonic activity evolution of the Scotia–Antarctic Plate boundary from mass transport deposit analysis. <i>Journal of Geophysical Research: Solid Earth</i> , 2016, 121, 2216-2234.	1.4	17
47	High-resolution seismic stratigraphy and morphology of the Scan Basin contourite fan, southern Scotia Sea, Antarctica. <i>Marine Geology</i> , 2016, 378, 361-373.	0.9	16
48	Multiple factors controlling the deep marine sedimentation of the Alboran Sea (SW Mediterranean) after the Zanclean Atlantic Mega-flood. <i>Marine Geology</i> , 2020, 423, 106138.	0.9	15
49	Deep-water dunes on drowned isolated carbonate terraces (Mozambique Channel, south-west Indian) <i>TJ ETQq1_1_0.784314 rgBT</i>	1.6	13
50	Multiprocess interaction shaping geoforms and controlling substrate types and benthic community distribution in the Gulf of Cádiz. <i>Marine Geology</i> , 2020, 423, 106139.	0.9	13
51	Quantitative characterisation of contourite deposits using medical CT. <i>Marine Geology</i> , 2019, 417, 106003.	0.9	12
52	Seasonal variability of intermediate water masses in the Gulf of Cádiz: implications of the Antarctic and subarctic seesaw. <i>Ocean Science</i> , 2019, 15, 1381-1397.	1.3	12
53	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> , 2022, 69, 1953-1991.	1.6	12
54	Sedimentary processes and cold-water coral mini-mounds at the Ferrol canyon head, NW Iberian margin. <i>Progress in Oceanography</i> , 2018, 169, 48-65.	1.5	11

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55	Geomorphological and sedimentary processes of the glacially influenced northwestern Iberian continental margin and abyssal plains. <i>Geomorphology</i> , 2018, 312, 60-85.	1.1	11
56	Late Quaternary multi-genetic processes and products on the northern Gulf of Cadiz upper continental slope (SW Iberian Peninsula). <i>Marine Geology</i> , 2020, 427, 106214.	0.9	11
57	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> , 2021, 11, 1562.	1.6	11
58	Fault-controlled contourite drifts in the southern South China Sea: Tectonic, oceanographic, and conceptual implications. <i>Marine Geology</i> , 2021, 433, 106420.	0.9	9
59	Latest Miocene restriction of the Mediterranean Outflow Water: a perspective from the Gulf of Cádiz. <i>Geo-Marine Letters</i> , 2021, 41, 1.	0.5	9
60	Lateral variability of ichnofabrics in marine cores: Improving sedimentary basin analysis using Computed Tomography images and high-resolution digital treatment. <i>Marine Geology</i> , 2018, 397, 72-78.	0.9	8
61	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> , 2020, 114, 104195.	1.5	8
62	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> , 2019, 149, 103054.	0.6	7
63	Late Miocene contourite depositional system of the Gulf of Cádiz: The sedimentary signature of the paleo-Mediterranean Outflow Water. <i>Marine Geology</i> , 2021, 442, 106605.	0.9	7
64	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> , 2020, 427, 106217.	0.9	6
65	First Record of Graphoglyptids in Cyprus: Indicative Presence of Turbidite Deposits at the Pakhna Formation. <i>Ichnos</i> , 2020, 27, 237-243.	0.8	5
66	Geomorphology of Ona Basin, southwestern Scotia Sea (Antarctica): Decoding the spatial variability of bottom-current pathways. <i>Marine Geology</i> , 2020, 422, 106113.	0.9	5
67	Virtual special issue on IODP Expedition 339: The Mediterranean outflow. <i>Global and Planetary Change</i> , 2016, 144, 263-269.	1.6	3
68	Late Miocene evolution of the eastern Deep Algarve basin: Interaction of bottom currents and gravitational processes in a foredeep setting. <i>Marine and Petroleum Geology</i> , 2022, 141, 105695.	1.5	3
69	Sequential bedform development in mixed turbidite "contourite systems: An example from the Cosmonaut Sea, East Antarctica. <i>Geomorphology</i> , 2022, 410, 108287.	1.1	3
70	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> , 2021, 170, 103459.	0.6	2
71	Structural control and tectono-sedimentary evolution of the Gulf of Cadiz, SW Iberia since the late Miocene: Implications for contourite depositional system. <i>Marine Geology</i> , 2022, 449, 106818.	0.9	2
72	Reply to comment on "Ichnological analysis of contourites: Past, present and future" by Francisco J. Rodríguez-Tovar and F. Javier Hernández-Molina [<i>Earth-Science Reviews</i> , 182 (2018), 28-41]. <i>Earth-Science Reviews</i> , 2018, 184, 50-51.	4.0	1

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73	Tide-dominated deltas responding to high-frequency sea-level changes, Pre-Messinian Rifian Corridor, Morocco: Discussion. <i>Journal of Sedimentary Research</i> , 2021, 91, 876-879.	0.8	1
74	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> , 0, 22, 49-61.	1.0	1
75	Progressive Intensification of Pacific Deep Water Circulation Since the Early Pliocene. <i>Geophysical Research Letters</i> , 2022, 49, .	1.5	1