

Daniel GarcÃ-a-Castellanos

List of Publications by Year in descending order

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Version: 2024-02-01

72
papers

3,420
citations

136950

32
h-index

144013

57
g-index

83
all docs

83
docs citations

83
times ranked

3552
citing authors

#	ARTICLE	IF	CITATIONS
1	Catastrophic flood of the Mediterranean after the Messinian salinity crisis. <i>Nature</i> , 2009, 462, 778-781.	27.8	380
2	Interplay between tectonics, climate, and fluvial transport during the Cenozoic evolution of the Ebro Basin (NE Iberia). <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	224
3	Messinian salinity crisis regulated by competing tectonics and erosion at the Gibraltar arc. <i>Nature</i> , 2011, 480, 359-363.	27.8	216
4	Lithospheric memory, state of stress and rheology: neotectonic controls on Europe's intraplate continental topography. <i>Quaternary Science Reviews</i> , 2005, 24, 241-304.	3.0	174
5	Crustal-scale cross-sections across the NW Zagros belt: implications for the Arabian margin reconstruction. <i>Geological Magazine</i> , 2011, 148, 739-761.	1.5	169
6	Lithospheric folding in Iberia. <i>Tectonics</i> , 2002, 21, 5-1-5-26.	2.8	131
7	Interplay between lithospheric flexure and river transport in foreland basins. <i>Basin Research</i> , 2002, 14, 89-104.	2.7	120
8	LitMod3D: An interactive 3D software to model the thermal, compositional, density, seismological, and rheological structure of the lithosphere and sublithospheric upper mantle. <i>Geochemistry, Geophysics, Geosystems</i> , 2009, 10, .	2.5	107
9	Modeling the evolution of the Guadalquivir foreland basin (southern Spain). <i>Tectonics</i> , 2002, 21, 9-1-9-17.	2.8	102
10	New constraints on the Messinian sealevel drawdown from 3D seismic data of the Ebro Margin, western Mediterranean. <i>Basin Research</i> , 2011, 23, 123-145.	2.7	84
11	3-D lithospheric structure and regional/residual Bouguer anomalies in the Arabia-Eurasia collision (Iran). <i>Geophysical Journal International</i> , 2012, 190, 1311-1324.	2.4	78
12	Modeling the flexural evolution of the Amiran and Mesopotamian foreland basins of NW Zagros (Iran-Iraq). <i>Tectonics</i> , 2015, 34, 377-395.	2.8	75
13	Cenozoic vertical motions of the Catalan Coastal Ranges (NE Spain): The role of tectonics, isostasy, and surface transport. <i>Tectonics</i> , 2004, 23, n/a-n/a.	2.8	61
14	Modelling the Middle Pleistocene uplift in the Ardennes-Rhenish Massif: thermo-mechanical weakening under the Eifel?. <i>Global and Planetary Change</i> , 2000, 27, 39-52.	3.5	54
15	Impact of pulsed Atlantic water inflow into the Alboran Basin at the time of the Zanclean flooding. <i>Geo-Marine Letters</i> , 2011, 31, 361-376.	1.1	54
16	Lithospheric structure of the Gorringe Bank: Insights into its origin and tectonic evolution. <i>Tectonics</i> , 2010, 29, n/a-n/a.	2.8	53
17	Geophysical-petrological modeling of the lithosphere beneath the Cantabrian Mountains and the North-Iberian margin: geodynamic implications. <i>Lithos</i> , 2015, 230, 46-68.	1.4	52
18	Three-dimensional flexural modelling of the Ebro Basin (NE Iberia). <i>Geophysical Journal International</i> , 2001, 145, 349-367.	2.4	51

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19	Quantification of fluvial incision in the Duero Basin (NW Iberia) from longitudinal profile analysis and terrestrial cosmogenic nuclide concentrations. <i>Geomorphology</i> , 2012, 165-166, 50-61.	2.6	49
20	Evidence of the Zanclean megaflood in the eastern Mediterranean Basin. <i>Scientific Reports</i> , 2018, 8, 1078.	3.3	49
21	Drainage network dynamics and knickpoint evolution in the Ebro and Duero basins: From endorheism to exorheism. <i>Geomorphology</i> , 2019, 327, 554-571.	2.6	49
22	The role of climate during high plateau formation. Insights from numerical experiments. <i>Earth and Planetary Science Letters</i> , 2007, 257, 372-390.	4.4	47
23	Numerical modeling of foreland basin formation: a program relating thrusting, flexure, sediment geometry and lithosphere rheology. <i>Computers and Geosciences</i> , 1997, 23, 993-1003.	4.2	46
24	Magmatic pulse driven by sea-level changes associated with the Messinian salinity crisis. <i>Nature Geoscience</i> , 2017, 10, 783-787.	12.9	46
25	The evolution of the Danube gateway between Central and Eastern Paratethys (SE Europe): Insight from numerical modelling of the causes and effects of connectivity between basins and its expression in the sedimentary record. <i>Tectonophysics</i> , 2011, 502, 175-195.	2.2	44
26	River transport effects on compressional belts: First results from an integrated analogue-numerical model. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	43
27	Quantifying the post-tectonic topographic evolution of closed basins: The Ebro basin (northeast) Tj ETQq1 1 0.784314 rgBT /Overlock	4.4	42
28	Role of the 3-D distributions of load and lithospheric strength in orogenic arcs: polystage subsidence in the Carpathians foredeep. <i>Earth and Planetary Science Letters</i> , 2004, 221, 163-180.	4.4	41
29	Freshening of the Mediterranean Salt Giant: controversies and certainties around the terminal (Upper) Tj ETQq1 1 0.784314 rgBT /Overlock	9.1	39
30	Faulting within the Pacific plate at the Mariana Trench: Implications for plate interface coupling and subduction of hydrous minerals. <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 3076-3095.	3.4	38
31	Poles of inaccessibility: A calculation algorithm for the remotest places on earth. <i>Scottish Geographical Journal</i> , 2007, 123, 227-233.	1.1	36
32	From the North-Iberian Margin to the Alboran Basin: A lithosphere geo-transect across the Iberian Plate. <i>Tectonophysics</i> , 2015, 663, 399-418.	2.2	34
33	Restored topography of the Po Plainâ€Northern Adriatic region during the Messinian baseâ€level dropâ€Implications for the physiography and compartmentalization of the palaeoâ€Mediterranean basin. <i>Basin Research</i> , 2018, 30, 1247-1263.	2.7	34
34	Outburst floods provide erodability estimates consistent with long-term landscape evolution. <i>Scientific Reports</i> , 2018, 8, 10573.	3.3	34
35	The Zanclean megaflood of the Mediterranean â€ Searching for independent evidence. <i>Earth-Science Reviews</i> , 2020, 201, 103061.	9.1	34
36	Decoupled crust-mantle accommodation of Africa-Eurasia convergence in the NW Moroccan margin. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	30

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37	Deep structure of the VÃaring Margin: the transition from a continental shield to a young oceanic lithosphere. <i>Earth and Planetary Science Letters</i> , 2004, 221, 131-144.	4.4	26
38	Geophysical and geological constraints on the evolution of the Guadalquivir foreland basin, Spain. <i>Geological Society Special Publication</i> , 1998, 134, 29-48.	1.3	25
39	Western Alpine back-thrusting as subsidence mechanism in the Tertiary Piedmont Basin (Western Po) Tj ETQq1 1 0.784314 rgBT /Overl	2.2	25
40	Gravitational and tectonic forces controlling postcollisional deformation and the present-day stress field of the Alps: Constraints from numerical modeling. <i>Tectonics</i> , 2005, 24, n/a-n/a.	2.8	25
41	Numerical modelling of Quaternary terrace staircase formation in the Ebro foreland basin, southernÃPyrenees, <scp>NE</scp> Iberia. <i>Basin Research</i> , 2016, 28, 124-146.	2.7	25
42	Geomorphic evolution of the Malta Escarpment and implications for the Messinian evaporative drawdown in the eastern Mediterranean Sea. <i>Geomorphology</i> , 2019, 327, 264-283.	2.6	24
43	Slab pull effects from a flexural analysis of the Tonga and Kermadec trenches (Pacific Plate). <i>Geophysical Journal International</i> , 2000, 141, 479-484.	2.4	23
44	Long-term evolution of tectonic lakes: Climatic controls on the development of internally drained basins. , 2006, , .		22
45	Survival of a submarine canyon during long-term outbuilding of a continental margin. <i>Geology</i> , 2012, 40, 543-546.	4.4	21
46	Early Pliocene climatic optimum, cooling and early glaciation deduced by terrestrial and marine environmental changes in SW Spain. <i>Global and Planetary Change</i> , 2019, 180, 89-99.	3.5	19
47	Dates and rates of endo-exorheic drainage development: Insights from fluvial terraces (Duero River,) Tj ETQq1 1 0.784314 rgBT /Overl	3.5	18
48	Modelling depositional shifts between sedimentary basins: Sediment pathways in Paratethys basins during the Messinian Salinity Crisis. <i>Tectonophysics</i> , 2012, 536-537, 110-121.	2.2	17
49	Deep Seated Density Anomalies Across the Iberiaâ€Africa Plate Boundary and Its Topographic Response. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 13310-13332.	3.4	17
50	Topographic Evolution and Climate Aridification during Continental Collision: Insights from Computer Simulations. <i>PLoS ONE</i> , 2015, 10, e0132252.	2.5	16
51	Lithospheric mantle buoyancy: the role of tectonic convergence and mantle composition. <i>Scientific Reports</i> , 2019, 9, 17953.	3.3	16
52	Probing tectonic topography in the aftermath of continental convergence in central Europe. <i>Eos</i> , 2003, 84, 89.	0.1	15
53	Thin-sheet modelling of lithospheric deformation and surface mass transport. <i>Tectonophysics</i> , 2005, 407, 239-255.	2.2	15
54	The accretion of the Levant continental shelf alongside the Nile Delta by immense margin-parallel sediment transport. <i>Marine and Petroleum Geology</i> , 2021, 126, 104876.	3.3	15

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55	Computational Fluid Dynamics simulations of the Late Pleistocene Lake Bonneville Flood. <i>Journal of Hydrology</i> , 2018, 561, 1-15.	5.4	13
56	Long-term growth and subsidence of Ascension Island: Constraints on the rheology of young oceanic lithosphere. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	12
57	Endorheic Exorheic Transitions of the Rio Grande and East African Rifts. <i>Geochemistry, Geophysics, Geosystems</i> , 2019, 20, 3705-3729.	2.5	11
58	A single-stage megaflood at the termination of the Messinian salinity crisis: Geophysical and modelling evidence from the eastern Mediterranean Basin. <i>Marine Geology</i> , 2020, 430, 106337.	2.1	11
59	Catastrophic Drainage From the Northwestern Outlet of Glacial Lake Agassiz During the Younger Dryas. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL093919.	4.0	11
60	Flexural isostatic reconstruction of the Western Mediterranean during the Messinian Salinity Crisis: Implications for water level and basin connectivity. <i>Basin Research</i> , 0, , .	2.7	8
61	Four decades of geophysical research on Iberia and adjacent margins. <i>Earth-Science Reviews</i> , 2021, 222, 103841.	9.1	8
62	Alpine Foreland Basins. <i>Regional Geology Reviews</i> , 2019, , 7-59.	1.2	7
63	Tectonic Models for the Evolution of Sedimentary Basins. , 2015, , 513-592.		6
64	An exploratory modelling study on sediment transport during the Zanclean flood of the Mediterranean. <i>SN Applied Sciences</i> , 2019, 1, 1.	2.9	5
65	Probing connections between deep earth and surface processes in a land-locked ocean basin transformed into a giant saline basin: The Mediterranean GOLD project#. <i>Marine and Petroleum Geology</i> , 2015, 66, 6-17.	3.3	4
66	Topographic, lithospheric and lithologic controls on the transient landscape evolution after the opening of internally-drained basins. <i>Modelling the North Iberian Neogene drainage. Bulletin - Societe Geologique De France</i> , 2021, 192, 45.	2.2	4
67	Plio-Quaternary strike-slip tectonics in the Central Mallorca Depression, Balearic Promontory: Land-sea correlation. <i>Tectonophysics</i> , 2022, 829, 229295.	2.2	4
68	Can changes in deformation regimes be inferred from crystallographic preferred orientations in polar ice?. <i>Cryosphere</i> , 2022, 16, 2009-2024.	3.9	4
69	A GIS method to identify flat surfaces and restore relict fluvial long profiles from terrace remnants gives new clues on how large basins respond to endorheic exorheic transitions (Duero basin, Iberian) Tj ETQq1 1x5784314rgBT /Ome		
70	Formation of Stanley Patch volcanic cone: New insights into the evolution of Deception Island caldera (Antarctica). <i>Journal of Volcanology and Geothermal Research</i> , 2021, 415, 107249.	2.1	2
71	Towards a Digital Twin of the Earth System: Geo-Soft-CoRe, a Geoscientific Software & Code Repository. <i>Frontiers in Earth Science</i> , 2022, 10, .	1.8	1
72	Correction to "New constraints on the Messinian sealevel drawdown from 3D seismic data of the Ebro Margin, western Mediterranean". <i>Basin Research</i> , 2011, 23, 376-376.	2.7	0