

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	Plio-Quaternary strike-slip tectonics in the Central Mallorca Depression, Balearic Promontory: Land-sea correlation. <i>Tectonophysics</i> , 2022, 829, 229295.	2.2	4
2	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
3	Can changes in deformation regimes be inferred from crystallographic preferred orientations in polar ice?. <i>Cryosphere</i> , 2022, 16, 2009-2024.	3.9	4
4	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
5	Freshening of the Mediterranean Salt Giant: controversies and certainties around the terminal (Upper) Tj ETQq1 1 0,784314 rgBT /Overlock 10	9.1	39
6	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
7	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
8	Topographic, lithospheric and lithologic controls on the transient landscape evolution after the opening of internally-drained basins. Modelling the North Iberian Neogene drainage. <i>Bulletin - Societe Geologique De France</i> , 2021, 192, 45.	2.2	4
9	Four decades of geophysical research on Iberia and adjacent margins. <i>Earth-Science Reviews</i> , 2021, 222, 103841.	9.1	8
10	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 ETQq0 0,20rgBT /Overlock 10	9.1	39
11	The Zanclean megaflood of the Mediterranean â€“ Searching for independent evidence. <i>Earth-Science Reviews</i> , 2020, 201, 103061.	9.1	34
12	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
13	Dates and rates of endo-exorheic drainage development: Insights from fluvial terraces (Duero River,) Tj ETQq1 1 0,784314 rgBT /Overlock 10	3.5	18
14	Endorheic-Exorheic Transitions of the Rio Grande and East African Rifts. <i>Geochemistry, Geophysics, Geosystems</i> , 2019, 20, 3705-3729.	2.5	11
15	Alpine Foreland Basins. <i>Regional Geology Reviews</i> , 2019, , 7-59.	1.2	7
16	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
17	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
18	Deep Seated Density Anomalies Across the Iberia-Africa Plate Boundary and Its Topographic Response. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 13310-13332.	3.4	17

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19	Lithospheric mantle buoyancy: the role of tectonic convergence and mantle composition. <i>Scientific Reports</i> , 2019, 9, 17953.	3.3	16
20	Geomorphologic 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
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	Evidence of the Zanclean megaflood in the eastern Mediterranean Basin. <i>Scientific Reports</i> , 2018, 8, 1078.	3.3	49
23	Computational Fluid Dynamics simulations of the Late Pleistocene Lake Bonneville Flood. <i>Journal of Hydrology</i> , 2018, 561, 1-15.	5.4	13
24	Restored topography of the Po Plain–Northern Adriatic region during the Messinian base-level drop—Implications for the physiography and compartmentalization of the palaeo-Mediterranean basin. <i>Basin Research</i> , 2018, 30, 1247-1263.	2.7	34
25	Outburst floods provide erodability estimates consistent with long-term landscape evolution. <i>Scientific Reports</i> , 2018, 8, 10573.	3.3	34
26	Magmatic pulse driven by sea-level changes associated with the Messinian salinity crisis. <i>Nature Geoscience</i> , 2017, 10, 783-787.	12.9	46
27	Numerical modelling of Quaternary terrace staircase formation in the Ebro foreland basin, southern Pyrenees, NE Iberia. <i>Basin Research</i> , 2016, 28, 124-146.	2.7	25
28	Topographic Evolution and Climate Aridification during Continental Collision: Insights from Computer Simulations. <i>PLoS ONE</i> , 2015, 10, e0132252.	2.5	16
29	Tectonic Models for the Evolution of Sedimentary Basins. , 2015, , 513-592.		6
30	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
31	Quantifying the post-tectonic topographic evolution of closed basins: The Ebro basin (northeast) Tj ETQq1 1 0.784314 rgBT /Overlock	4.4	42
32	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
33	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
34	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
35	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
36	Survival of a submarine canyon during long-term outbuilding of a continental margin. <i>Geology</i> , 2012, 40, 543-546.	4.4	21

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37	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
38	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
39	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
40	Decoupled crust-mantle accommodation of Africa-Eurasia convergence in the NW Moroccan margin. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	30
41	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
42	Messinian salinity crisis regulated by competing tectonics and erosion at the Gibraltar arc. <i>Nature</i> , 2011, 480, 359-363.	27.8	216
43	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
44	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
45	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
46	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
47	Lithospheric structure of the Goringe Bank: Insights into its origin and tectonic evolution. <i>Tectonics</i> , 2010, 29, n/a-n/a.	2.8	53
48	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
49	Catastrophic flood of the Mediterranean after the Messinian salinity crisis. <i>Nature</i> , 2009, 462, 778-781.	27.8	380
50	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
51	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
52	Poles of inaccessibility: A calculation algorithm for the remotest places on earth. <i>Scottish Geographical Journal</i> , 2007, 123, 227-233.	1.1	36
53	Long-term evolution of tectonic lakes: Climatic controls on the development of internally drained basins. , 2006, , .		22
54	Western Alpine back-thrusting as subsidence mechanism in the Tertiary Piedmont Basin (Western Po) Tj ETQq0 0 0,rgBT /Overlock 10 Tf	2.2	25

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55	Thin-sheet modelling of lithospheric deformation and surface mass transport. <i>Tectonophysics</i> , 2005, 407, 239-255.	2.2	15
56	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
57	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
58	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
59	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
60	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
61	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
62	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
63	Probing tectonic topography in the aftermath of continental convergence in central Europe. <i>Eos</i> , 2003, 84, 89.	0.1	15
64	Modeling the evolution of the Guadalquivir foreland basin (southern Spain). <i>Tectonics</i> , 2002, 21, 9-1-9-17.	2.8	102
65	Lithospheric folding in Iberia. <i>Tectonics</i> , 2002, 21, 5-1-5-26.	2.8	131
66	Interplay between lithospheric flexure and river transport in foreland basins. <i>Basin Research</i> , 2002, 14, 89-104.	2.7	120
67	Three-dimensional flexural modelling of the Ebro BasinÃ½ (NE Iberia). <i>Geophysical Journal International</i> , 2001, 145, 349-367.	2.4	51
68	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
69	Modelling the Middle Pleistocene uplift in the Ardennesâ€“Rhenish Massif: thermo-mechanical weakening under the Eifel?. <i>Global and Planetary Change</i> , 2000, 27, 39-52.	3.5	54
70	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
71	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
72	Flexuralâ€“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