

# Montserrat Torne

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

62

papers

2,023

citations

29

h-index

43

g-index

71

ext. papers

2,153

ext. citations

4.2

avg, IF

4.33

L-index

#	Paper	IF	Citations
62	Four decades of geophysical research on Iberia and adjacent margins. <i>Earth-Science Reviews</i> , <b>2021</b> , 222, 103841	10.2	1
61	Opposite Symmetry in the Lithospheric Structure of the Alboran and Algerian Basins and Their Margins (Western Mediterranean): Geodynamic Implications. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2021</b> , 126, e2020JB021388	3.6	4
60	LitMod2D_2.0: An Improved Integrated Geophysical-Petrological Modeling Tool for the Physical Interpretation of Upper Mantle Anomalies. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2020</b> , 21, e2019GC008777	3.6	6
59	Regional crustal and lithospheric thickness model for Alaska, the Chukchi shelf, and the inner and outer bering shelves. <i>Geophysical Journal International</i> , <b>2020</b> , 220, 522-540	2.6	1
58	An Introduction to the Alpine Cycle in Iberia. <i>Regional Geology Reviews</i> , <b>2019</b> , 1-14	2.5	12
57	Evidence of Segmentation in the Iberia-Africa Plate Boundary: A Jurassic Heritage?. <i>Geosciences (Switzerland)</i> , <b>2019</b> , 9, 343	2.7	9
56	3-D seismic travel-time tomography validation of a detailed subsurface model: a case study of the Z̄bcara river basin (Cuenca, Spain). <i>Solid Earth</i> , <b>2019</b> , 10, 177-192	3.3	3
55	Deep Seated Density Anomalies Across the Iberia-Africa Plate Boundary and Its Topographic Response. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2019</b> , 124, 13310-13332	3.6	9
54	Curie Point Depth of the Iberian Peninsula and Surrounding Margins. A Thermal and Tectonic Perspective of its Evolution. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2018</b> , 123, 2049-2068	3.6	24
53	Crustal structure of the SW Iberian passive margin: The westernmost remnant of the Ligurian Tethys?. <i>Tectonophysics</i> , <b>2017</b> , 705, 42-62	3.1	20
52	The nature of crustal reflectivity at the southwest Iberian margin. <i>Tectonophysics</i> , <b>2017</b> , 721, 239-253	3.1	2
51	Evidence for mantle heterogeneities in the westernmost Mediterranean from a statistical approach to volcanic petrology. <i>Lithos</i> , <b>2017</b> , 276, 62-74	2.9	10
50	A New Southern North Atlantic Isochron Map: Insights Into the Drift of the Iberian Plate Since the Late Cretaceous. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2017</b> , 122, 9603-9626	3.6	54
49	New insights into the crust and lithospheric mantle structure of Africa from elevation, geoid, and thermal analysis. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2016</b> , 121, 5389-5424	3.6	34
48	Updated Bouguer anomalies of the Iberian Peninsula: a new perspective to interpret the regional geology. <i>Journal of Maps</i> , <b>2016</b> , 12, 1089-1092	2.2	28
47	The Alboran domain in the western Mediterranean evolution: the birth of a concept. <i>Bulletin - Societe Geologique De France</i> , <b>2015</b> , 186, 371-384	2.3	29
46	Crust and mantle lithospheric structure of the Iberian Peninsula deduced from potential field modeling and thermal analysis. <i>Tectonophysics</i> , <b>2015</b> , 663, 419-433	3.1	38

45	Lithospheric velocity model across the Southern Central Iberian Zone (Variscan Iberian Massif): The ALCUDIA wide-angle seismic reflection transect. <i>Tectonics</i> , <b>2015</b> , 34, 535-554	4.3	20
44	From the North-Iberian Margin to the Alboran Basin: A lithosphere geo-transect across the Iberian Plate. <i>Tectonophysics</i> , <b>2015</b> , 663, 399-418	3.1	30
43	Crustal structure of an intraplate thrust belt: The Iberian Chain revealed by wide-angle seismic, magnetotelluric soundings and gravity data. <i>Tectonophysics</i> , <b>2015</b> , 663, 339-353	3.1	14
42	Thermal and petrophysical characterization of the lithospheric mantle along the northeastern Iberia geo-transect. <i>Gondwana Research</i> , <b>2015</b> , 27, 1430-1445	5.1	24
41	Crustal structure beneath the Rif Cordillera, North Morocco, from the RIFSIS wide-angle reflection seismic experiment. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2014</b> , 15, 4712-4733	3.6	24
40	Three-dimensional gravity and magnetic modeling of crustal indentation and wedging in the western Pyrenees-Cantabrian Mountains. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112,		79
39	3D gravity modeling of the Triassic salt diapirs of the Cubeta Alavesa (northern Spain). <i>Tectonophysics</i> , <b>2005</b> , 405, 65-75	3.1	20
38	Lithospheric structure of the Mid-Norwegian Margin: comparison between the MĒe and VĒng margins. <i>Journal of the Geological Society</i> , <b>2005</b> , 162, 1005-1012	2.7	19
37	Lithospheric transition from the Variscan Iberian Massif to the Jurassic oceanic crust of the Central Atlantic. <i>Tectonophysics</i> , <b>2004</b> , 386, 97-115	3.1	48
36	Extensional geometry of the Mid Norwegian Margin before Early Tertiary continental breakup. <i>Marine and Petroleum Geology</i> , <b>2004</b> , 21, 177-194	4.7	20
35	Deep structure of the VĒng Margin: the transition from a continental shield to a young oceanic lithosphere. <i>Earth and Planetary Science Letters</i> , <b>2004</b> , 221, 131-144	5.3	24
34	The lithosphereĒsthenosphere boundary in the western Mediterranean from 3D joint gravity and geoid modeling: tectonic implications. <i>Earth and Planetary Science Letters</i> , <b>2003</b> , 209, 275-290	5.3	36
33	Modeling the evolution of the Guadalquivir foreland basin (southern Spain). <i>Tectonics</i> , <b>2002</b> , 21, 9-1-9-17	4.3	79
32	Seismic crustal structure in the Gulf of Cadiz (SW Iberian Peninsula). <i>Marine Geophysical Researches</i> , <b>2001</b> , 22, 207-223	2.3	30
31	The transition from linear to diffuse plate boundary in the AzoresĒGibraltar region: results from a thin-sheet model. <i>Earth and Planetary Science Letters</i> , <b>2001</b> , 192, 175-189	5.3	83
30	Slab pull effects from a flexural analysis of the Tonga and Kermadec trenches (Pacific Plate). <i>Geophysical Journal International</i> , <b>2000</b> , 141, 479-484	2.6	18
29	Crustal structure of the southernmost Chilean margin from seismic and gravity data. <i>Tectonophysics</i> , <b>2000</b> , 323, 39-60	3.1	13
28	Lithospheric Structure Beneath the Alboran Basin: Results from 3D Gravity Modeling and Tectonic Relevance. <i>Journal of Geophysical Research</i> , <b>2000</b> , 105, 3209-3228		123

27	Numerical modeling of simultaneous extension and compression: The Valencia trough (western Mediterranean). <i>Tectonics</i> , <b>1999</b> , 18, 361-374	4.3	20
26	Geophysical and geological constraints on the evolution of the Guadalquivir foreland basin, Spain. <i>Geological Society Special Publication</i> , <b>1998</b> , 134, 29-48	1.7	18
25	Subduction-related structures in the North Iberian Margin. <i>Journal of Geophysical Research</i> , <b>1997</b> , 102, 22497-22511		82
24	Numerical modeling of foreland basin formation: a program relating thrusting, flexure, sediment geometry and lithosphere rheology. <i>Computers and Geosciences</i> , <b>1997</b> , 23, 993-1003	4.5	41
23	Geodynamic Evolution of the Eastern Segment of the Azores-Gibraltar Zone: The Gorringe Bank and the Gulf of Cadiz Region. <i>Marine Geophysical Researches</i> , <b>1997</b> , 19, 211-230	2.3	57
22	Crustal thinning in the Southwestern Iberia Margin. <i>Geophysical Research Letters</i> , <b>1996</b> , 23, 2477-2480	4.9	42
21	The lithosphere-asthenosphere boundary of the Valencia Trough (western Mediterranean) deduced from 2D Geoid and Gravity Modelling. <i>Geophysical Research Letters</i> , <b>1996</b> , 23, 3131-3134	4.9	16
20	The lithosphere of the Valencia Trough: a brief review <b>1996</b> , 49-54		
19	Two-dimensional geoid modelling: some remarks on Chapman's algorithm. <i>Geophysical Journal International</i> , <b>1996</b> , 127, 542-544	2.6	7
18	Gravity and multichannel seismic reflection constraints on the lithospheric structure of the Canary Swell. <i>Marine Geophysical Researches</i> , <b>1995</b> , 17, 519-534	2.3	46
17	Moho and lower crustal reflectivity beneath a young rift basin: results from a two-ship, wide-aperture seismic-reflection experiment in the Valencia Trough (western Mediterranean). <i>Geophysical Journal International</i> , <b>1994</b> , 118, 159-180	2.6	31
16	A deep seismic reflection survey across the Betic Chain (southern Spain): first results. <i>Tectonophysics</i> , <b>1994</b> , 232, 77-89	3.1	43
15	Pliocene uplift of the eastern Iberian margin: Inferences from quantitative modelling of the Valencia Trough. <i>Earth and Planetary Science Letters</i> , <b>1993</b> , 119, 585-597	5.3	70
14	Crustal structure and the mechanical properties of extended continental lithosphere in the Valencia trough (western Mediterranean). <i>Journal of the Geological Society</i> , <b>1992</b> , 149, 813-827	2.7	41
13	Crustal and velocity structure of the Valencia trough (western Mediterranean), Part I. A combined refraction/ wide-angle reflection and near-vertical reflection study. <i>Tectonophysics</i> , <b>1992</b> , 203, 1-20	3.1	63
12	Crustal and velocity structure of the Valencia trough (western Mediterranean), Part II. Detailed interpretation of five Expanded Spread Profiles. <i>Tectonophysics</i> , <b>1992</b> , 203, 21-35	3.1	33
11	Tertiary sedimentary history and structure of the Valencia trough (western Mediterranean). <i>Tectonophysics</i> , <b>1992</b> , 203, 57-75	3.1	74
10	Long-listening multichannel seismic profiles in the Valencia trough (Valsis 2) and the Gulf of Lions (ECORS): A comparison. <i>Tectonophysics</i> , <b>1992</b> , 203, 285-304	3.1	24

9	Subsidence history, crustal structure, and thermal evolution of the Valencia Trough: A young extensional basin in the western Mediterranean. <i>Journal of Geophysical Research</i> , <b>1992</b> , 97, 20021		66
8	Mantle-lithosphere bodies in the Alboran crustal domain (Ronda peridotites, Betic-Rif orogenic belt). <i>Earth and Planetary Science Letters</i> , <b>1992</b> , 110, 163-171	5.3	45
7	Crustal thinning from the Betic Cordillera to the Alboran Sea. <i>Geo-Marine Letters</i> , <b>1992</b> , 12, 76-81	1.9	47
6	Regional Geothermal Gradients and Lithospheric Structure in Spain. <i>Exploration of the Deep Continental Crust</i> , <b>1991</b> , 176-186		9
5	Evidence for reflectors in the lower continental crust before rifting in the Valencia trough. <i>Nature</i> , <b>1990</b> , 348, 631-635	50.4	42
4	Modelling of thermal anomalies in the NW border of the Valencia Trough by groundwater convection. <i>Geophysical Research Letters</i> , <b>1990</b> , 17, 105-108	4.9	14
3	Lithospheric thermal structure of NE Spain and the North-Balearic basin. <i>Journal of Geodynamics</i> , <b>1990</b> , 12, 253-267	2.2	18
2	Geophysical constraints on the deep structure along the Eors Pyrenees Line. <i>Tectonics</i> , <b>1989</b> , 8, 1051-1058		33
1	Gravity constraints on the deep structure of the Pyrenean belt along the ECORS profile. <i>Tectonophysics</i> , <b>1989</b> , 165, 105-116	3.1	51