

Montserrat Torne

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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	Lithospheric Structure Beneath the Alboran Basin: Results from 3D Gravity Modeling and Tectonic Relevance. <i>Journal of Geophysical Research</i> , 2000 , 105, 3209-3228		123
61	The transition from linear to diffuse plate boundary in the Azores-Gibraltar region: results from a thin-sheet model. <i>Earth and Planetary Science Letters</i> , 2001 , 192, 175-189	5.3	83
60	Subduction-related structures in the North Iberian Margin. <i>Journal of Geophysical Research</i> , 1997 , 102, 22497-22511		82
59	Three-dimensional gravity and magnetic modeling of crustal indentation and wedging in the western Pyrenees-Cantabrian Mountains. <i>Journal of Geophysical Research</i> , 2007 , 112,		79
58	Modeling the evolution of the Guadalquivir foreland basin (southern Spain). <i>Tectonics</i> , 2002 , 21, 9-1-9-174.3		79
57	Tertiary sedimentary history and structure of the Valencia trough (western Mediterranean). <i>Tectonophysics</i> , 1992 , 203, 57-75	3.1	74
56	Pliocene uplift of the eastern Iberian margin: Inferences from quantitative modelling of the Valencia Trough. <i>Earth and Planetary Science Letters</i> , 1993 , 119, 585-597	5.3	70
55	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> , 1992 , 97, 20021		66
54	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> , 1992 , 203, 1-20	3.1	63
53	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> , 1997 , 19, 211-230	2.3	57
52	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> , 2017 , 122, 9603-9626	3.6	54
51	Gravity constraints on the deep structure of the Pyrenean belt along the ECORS profile. <i>Tectonophysics</i> , 1989 , 165, 105-116	3.1	51
50	Lithospheric transition from the Variscan Iberian Massif to the Jurassic oceanic crust of the Central Atlantic. <i>Tectonophysics</i> , 2004 , 386, 97-115	3.1	48
49	Crustal thinning from the Betic Cordillera to the Alboran Sea. <i>Geo-Marine Letters</i> , 1992 , 12, 76-81	1.9	47
48	Gravity and multichannel seismic reflection constraints on the lithospheric structure of the Canary Swell. <i>Marine Geophysical Researches</i> , 1995 , 17, 519-534	2.3	46
47	Mantle-lithosphere bodies in the Alboran crustal domain (Ronda peridotites, Betic-Rif orogenic belt). <i>Earth and Planetary Science Letters</i> , 1992 , 110, 163-171	5.3	45
46	A deep seismic reflection survey across the Betic Chain (southern Spain): first results. <i>Tectonophysics</i> , 1994 , 232, 77-89	3.1	43

45	Crustal thinning in the Southwestern Iberia Margin. <i>Geophysical Research Letters</i> , 1996 , 23, 2477-2480	4.9	42
44	Evidence for reflectors in the lower continental crust before rifting in the Valencia trough. <i>Nature</i> , 1990 , 348, 631-635	50.4	42
43	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	4.5	41
42	Crustal structure and the mechanical properties of extended continental lithosphere in the Valencia trough (western Mediterranean). <i>Journal of the Geological Society</i> , 1992 , 149, 813-827	2.7	41
41	Crust and mantle lithospheric structure of the Iberian Peninsula deduced from potential field modeling and thermal analysis. <i>Tectonophysics</i> , 2015 , 663, 419-433	3.1	38
40	The lithosphere–asthenosphere boundary in the western Mediterranean from 3D joint gravity and geoid modeling: tectonic implications. <i>Earth and Planetary Science Letters</i> , 2003 , 209, 275-290	5.3	36
39	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> , 2016 , 121, 5389-5424	3.6	34
38	Crustal and velocity structure of the Valencia trough (western Mediterranean), Part II. Detailed interpretation of five Expanded Spread Profiles. <i>Tectonophysics</i> , 1992 , 203, 21-35	3.1	33
37	Geophysical constraints on the deep structure along the Eors Pyrenees Line. <i>Tectonics</i> , 1989 , 8, 1051-1058	4.9	33
36	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> , 1994 , 118, 159-180	2.6	31
35	From the North-Iberian Margin to the Alboran Basin: A lithosphere geo-transect across the Iberian Plate. <i>Tectonophysics</i> , 2015 , 663, 399-418	3.1	30
34	Seismic crustal structure in the Gulf of Cadiz (SW Iberian Peninsula). <i>Marine Geophysical Researches</i> , 2001 , 22, 207-223	2.3	30
33	The Alboran domain in the western Mediterranean evolution: the birth of a concept. <i>Bulletin - Societe Geologique De France</i> , 2015 , 186, 371-384	2.3	29
32	Updated Bouguer anomalies of the Iberian Peninsula: a new perspective to interpret the regional geology. <i>Journal of Maps</i> , 2016 , 12, 1089-1092	2.2	28
31	Thermal and petrophysical characterization of the lithospheric mantle along the northeastern Iberia geo-transect. <i>Gondwana Research</i> , 2015 , 27, 1430-1445	5.1	24
30	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> , 2018 , 123, 2049-2068	3.6	24
29	Crustal structure beneath the Rif Cordillera, North Morocco, from the RIFSIS wide-angle reflection seismic experiment. <i>Geochemistry, Geophysics, Geosystems</i> , 2014 , 15, 4712-4733	3.6	24
28	Deep structure of the Vering Margin: the transition from a continental shield to a young oceanic lithosphere. <i>Earth and Planetary Science Letters</i> , 2004 , 221, 131-144	5.3	24

27	Long-listening multichannel seismic profiles in the Valencia trough (Valsis 2) and the Gulf of Lions (ECORS): A comparison. <i>Tectonophysics</i> , 1992 , 203, 285-304	3.1	24
26	Crustal structure of the SW Iberian passive margin: The westernmost remnant of the Ligurian Tethys?. <i>Tectonophysics</i> , 2017 , 705, 42-62	3.1	20
25	Lithospheric velocity model across the Southern Central Iberian Zone (Variscan Iberian Massif): The ALCUDIA wide-angle seismic reflection transect. <i>Tectonics</i> , 2015 , 34, 535-554	4.3	20
24	3D gravity modeling of the Triassic salt diapirs of the Cubeta Alavesa (northern Spain). <i>Tectonophysics</i> , 2005 , 405, 65-75	3.1	20
23	Extensional geometry of the Mid Norwegian Margin before Early Tertiary continental breakup. <i>Marine and Petroleum Geology</i> , 2004 , 21, 177-194	4.7	20
22	Numerical modeling of simultaneous extension and compression: The Valencia trough (western Mediterranean). <i>Tectonics</i> , 1999 , 18, 361-374	4.3	20
21	Lithospheric structure of the Mid-Norwegian Margin: comparison between the Møre and Vøring margins. <i>Journal of the Geological Society</i> , 2005 , 162, 1005-1012	2.7	19
20	Slab pull effects from a flexural analysis of the Tonga and Kermadec trenches (Pacific Plate). <i>Geophysical Journal International</i> , 2000 , 141, 479-484	2.6	18
19	Geophysical and geological constraints on the evolution of the Guadalquivir foreland basin, Spain. <i>Geological Society Special Publication</i> , 1998 , 134, 29-48	1.7	18
18	Lithospheric thermal structure of NE Spain and the North-Balearic basin. <i>Journal of Geodynamics</i> , 1990 , 12, 253-267	2.2	18
17	The lithosphere-asthenosphere boundary of the Valencia Trough (western Mediterranean) deduced from 2D Geoid and Gravity Modelling. <i>Geophysical Research Letters</i> , 1996 , 23, 3131-3134	4.9	16
16	Crustal structure of an intraplate thrust belt: The Iberian Chain revealed by wide-angle seismic, magnetotelluric soundings and gravity data. <i>Tectonophysics</i> , 2015 , 663, 339-353	3.1	14
15	Modelling of thermal anomalies in the NW border of the Valencia Trough by groundwater convection. <i>Geophysical Research Letters</i> , 1990 , 17, 105-108	4.9	14
14	Crustal structure of the southernmost Chilean margin from seismic and gravity data. <i>Tectonophysics</i> , 2000 , 323, 39-60	3.1	13
13	An Introduction to the Alpine Cycle in Iberia. <i>Regional Geology Reviews</i> , 2019 , 1-14	2.5	12
12	Evidence for mantle heterogeneities in the westernmost Mediterranean from a statistical approach to volcanic petrology. <i>Lithos</i> , 2017 , 276, 62-74	2.9	10
11	Evidence of Segmentation in the Iberia-Africa Plate Boundary: A Jurassic Heritage?. <i>Geosciences (Switzerland)</i> , 2019 , 9, 343	2.7	9
10	Regional Geothermal Gradients and Lithospheric Structure in Spain. <i>Exploration of the Deep Continental Crust</i> , 1991 , 176-186		9

9	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	3.6	9
8	Two-dimensional geoid modelling: some remarks on Chapman's algorithm. <i>Geophysical Journal International</i> , 1996 , 127, 542-544	2.6	7
7	LitMod2D_2.0: An Improved Integrated Geophysical-Petrological Modeling Tool for the Physical Interpretation of Upper Mantle Anomalies. <i>Geochemistry, Geophysics, Geosystems</i> , 2020 , 21, e2019GC008777	3.6	6
6	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> , 2021 , 126, e2020JB021388	3.6	4
5	3-D seismic travel-time tomography validation of a detailed subsurface model: a case study of the Zúrcara river basin (Cuenca, Spain). <i>Solid Earth</i> , 2019 , 10, 177-192	3.3	3
4	The nature of crustal reflectivity at the southwest Iberian margin. <i>Tectonophysics</i> , 2017 , 721, 239-253	3.1	2
3	Four decades of geophysical research on Iberia and adjacent margins. <i>Earth-Science Reviews</i> , 2021 , 222, 103841	10.2	1
2	Regional crustal and lithospheric thickness model for Alaska, the Chukchi shelf, and the inner and outer Bering shelves. <i>Geophysical Journal International</i> , 2020 , 220, 522-540	2.6	1
1	The lithosphere of the Valencia Trough: a brief review 1996 , 49-54		