Ivone Jimnez-Munt

List of Publications by Citations

39 papers	1,533 citations	20 h-index	39 g-index
49 ext. papers	1,716 ext. citations	4.8 avg, IF	4.37 L-index

#	Paper	IF	Citations
39	Catastrophic flood of the Mediterranean after the Messinian salinity crisis. *Nature*, **2009**, 462, 778-81	50.4	319
38	Lithosphere structure underneath the Tibetan Plateau inferred from elevation, gravity and geoid anomalies. *Earth and Planetary Science Letters*, **2008**, 267, 276-289	5.3	144
37	Crustal-scale cross-sections across the NW Zagros belt: implications for the Arabian margin reconstruction. *Geological Magazine*, **2011**, 148, 739-761	2	134
36	Radiogenic heat production variability of some common lithological groups and its significance to lithospheric thermal modeling. *Tectonophysics*, **2010**, 490, 152-164	3.1	124
35	The transition from linear to diffuse plate boundary in the Azores□Gibraltar region: results from a thin-sheet model. *Earth and Planetary Science Letters*, **2001**, 192, 175-189	5.3	83
34	Active deformation in the Mediterranean from Gibraltar to Anatolia inferred from numerical modeling and geodetic and seismological data. *Journal of Geophysical Research*, **2003**, 108, ETG 2-1-ETG 2-24		79
33	3-D lithospheric structure and regional/residual Bouguer anomalies in the Arabia-Eurasia collision (Iran). *Geophysical Journal International*, **2012**, 190, 1311-1324	2.6	63
32	Neotectonic modelling of the western part of the Africa□Eurasia plate boundary: from the Mid-Atlantic ridge to Algeria. *Earth and Planetary Science Letters*, **2003**, 205, 257-271	5.3	53
31	Lithospheric structure of the Gorringe Bank: Insights into its origin and tectonic evolution. *Tectonics* , **2010**, 29, n/a-n/a	4.3	48
30	Geophysical-petrological modeling of the lithosphere beneath the Cantabrian Mountains and the North-Iberian margin: geodynamic implications. *Lithos*, **2015**, 230, 46-68	2.9	44
29	Influence of mantle dynamics on the topographic evolution of the Tibetan Plateau: Results from numerical modeling. *Tectonics*, **2006**, 25, n/a-n/a	4.3	41
28	Crust and mantle lithospheric structure of the Iberian Peninsula deduced from potential field modeling and thermal analysis. *Tectonophysics*, **2015**, 663, 419-433	3.1	38
27	Lithospheric mantle heterogeneities beneath the Zagros Mountains and the Iranian Plateau: a petrological-geophysical study. *Geophysical Journal International*, **2014**, 200, 596-614	2.6	34
26	From the North-Iberian Margin to the Alboran Basin: A lithosphere geo-transect across the Iberian Plate. *Tectonophysics*, **2015**, 663, 399-418	3.1	30
25	Decoupled crust-mantle accommodation of Africa-Eurasia convergence in the NW Moroccan margin. *Journal of Geophysical Research*, **2011**, 116,		28
24	Thin-shell modeling of neotectonics in the Azores-Gibraltar Region. *Geophysical Research Letters*, **2001**, 28, 1083-1086	4.9	27
23	Deep and near-surface consequences of root removal by asymmetric continental delamination. *Tectonophysics*, **2011**, 502, 257-265	3.1	26

22	Thermal and petrophysical characterization of the lithospheric mantle along the northeastern Iberia geo-transect. *Gondwana Research*, **2015**, 27, 1430-1445	5.1	24
21	Geophysical-petrological model of the crust and upper mantle in the India-Eurasia collision zone. *Tectonics*, **2016**, 35, 1642-1669	4.3	23
20	Gravitational and tectonic forces controlling postcollisional deformation and the present-day stress field of the Alps: Constraints from numerical modeling. *Tectonics*, **2005**, 24, n/a-n/a	4.3	22
19	The block-like behavior of Anatolia envisaged in the modeled and geodetic strain rates. *Geophysical Research Letters*, **2002**, 29, 39-1-39-4	4.9	20
18	Lithospheric structure in Central Eurasia derived from elevation, geoid anomaly and thermal analysis. *Geological Society Special Publication*, **2017**, 427, 271-293	1.7	19
17	Evidence for eastward mantle flow beneath the Caribbean plate from neotectonic modeling. *Geophysical Research Letters*, **2004**, 31, n/a-n/a	4.9	14
16	A 3-D shear velocity model of the southern North American and Caribbean plates from ambient noise and earthquake tomography. *Solid Earth*, **2015**, 6, 271-284	3.3	13
15	Thin-sheet modelling of lithospheric deformation and surface mass transport. *Tectonophysics*, **2005**, 407, 239-255	3.1	13
14	Topographic Evolution and Climate Aridification during Continental Collision: Insights from Computer Simulations. *PLoS ONE*, **2015**, 10, e0132252	3.7	11
13	Dates and rates of endo-exorheic drainage development: Insights from fluvial terraces (Duero River, Iberian Peninsula). *Global and Planetary Change*, **2020**, 193, 103271	4.2	11
12	Lithospheric mantle buoyancy: the role of tectonic convergence and mantle composition. *Scientific Reports*, **2019**, 9, 17953	4.9	10
11	Deep Seated Density Anomalies Across the Iberia-Africa Plate Boundary and Its Topographic Response. *Journal of Geophysical Research: Solid Earth*, **2019**, 124, 13310-13332	3.6	9
10	LitMod2D_2.0: An Improved Integrated Geophysical-Petrological Modeling Tool for the Physical Interpretation of Upper Mantle Anomalies. *Geochemistry, Geophysics, Geosystems*, **2020**, 21, e2019GC008777	3.6	6
9	Lateral migration of a foundering high-density root: Insights from numerical modeling applied to the southern Sierra Nevada. *Lithos*, **2014**, 189, 77-88	2.9	5
8	Coupled mantle dripping and lateral dragging controlling the lithosphere structure of the NW-Moroccan margin and the Atlas Mountains: A numerical experiment. *Lithos*, **2014**, 189, 16-27	2.9	5
7	Neotectonic Deformation in Central Eurasia: A Geodynamic Model Approach. *Journal of Geophysical Research: Solid Earth*, **2017**, 122, 9461-9484	3.6	5
6	Opposite Symmetry in the Lithospheric Structure of the Alboran and Algerian Basins and Their Margins (Western Mediterranean): Geodynamic Implications. *Journal of Geophysical Research: Solid Earth*, **2021**, 126, e2020JB021388	3.6	4
5	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 Peninsula). *Earth Surface Processes and Landforms*, **2020**, 45, 1013-1027	3.7	2

4	Regional crustal and lithospheric thickness model for Alaska, the Chukchi shelf, and the inner and outer bering shelves. *Geophysical Journal International*, **2020**, 220, 522-540	2.6	1
3	Can changes in deformation regimes be inferred from crystallographic preferred orientations in polar ice?. *Cryosphere*, **2022**, 16, 2009-2024	5.5	1
2	Numerical modelling of opposing subduction in the Western Mediterranean. *Tectonophysics*, **2022**, 830, 229309	3.1	0
1	La estructura profunda del Zagros y de la meseta de Irán: un modelo geofísico y petrológico. *Física De La Tierra*, **1970**, 23, 93		