

Javier Fullea

List of Publications by Year in descending order

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Version: 2024-02-01

43
papers

1,794
citations

279798

23
h-index

265206

42
g-index

45
all docs

45
docs citations

45
times ranked

1608
citing authors

#	ARTICLE	IF	CITATIONS
1	Effective elastic thickness of Africa and its relationship to other proxies for lithospheric structure and surface tectonics. <i>Earth and Planetary Science Letters</i> , 2009, 287, 152-167.	4.4	142
2	The structure and evolution of the lithosphere–asthenosphere boundary beneath the Atlantic–Mediterranean Transition Region. <i>Lithos</i> , 2010, 120, 74-95.	1.4	126
3	3D multiobservable probabilistic inversion for the compositional and thermal structure of the lithosphere and upper mantle. I: <i>a priori</i> petrological information and geophysical observables. <i>Journal of Geophysical Research: Solid Earth</i> , 2013, 118, 2586-2617.	3.4	121
4	FA2BOUG—A FORTRAN 90 code to compute Bouguer gravity anomalies from gridded free-air anomalies: Application to the Atlantic-Mediterranean transition zone. <i>Computers and Geosciences</i> , 2008, 34, 1665-1681.	4.2	116
5	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
6	A rapid method to map the crustal and lithospheric thickness using elevation, geoid anomaly and thermal analysis. Application to the Gibraltar Arc System, Atlas Mountains and adjacent zones. <i>Tectonophysics</i> , 2007, 430, 97-117.	2.2	106
7	The structure of the Atlantic–Mediterranean transition zone from the Alboran Sea to the Horseshoe Abyssal Plain (Iberia–Africa plate boundary). <i>Marine Geology</i> , 2007, 243, 97-119.	2.1	82
8	3D multiobservable probabilistic inversion for the compositional and thermal structure of the lithosphere and upper mantle. II: General methodology and resolution analysis. <i>Journal of Geophysical Research: Solid Earth</i> , 2013, 118, 1650-1676.	3.4	78
9	3D multiobservable probabilistic inversion for the compositional and thermal structure of the lithosphere and upper mantle: III. Thermochemical tomography in the Western–Central U.S.. <i>Journal of Geophysical Research: Solid Earth</i> , 2016, 121, 7337-7370.	3.4	67
10	Electrical conductivity of continental lithospheric mantle from integrated geophysical and petrological modeling: Application to the Kaapvaal Craton and Rehoboth Terrane, southern Africa. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	66
11	Water in cratonic lithosphere: Calibrating laboratory-determined models of electrical conductivity of mantle minerals using geophysical and petrological observations. <i>Geochemistry, Geophysics, Geosystems</i> , 2012, 13, .	2.5	63
12	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
13	Lithospheric structure in the Baikal–central Mongolia region from integrated geophysical–petrological inversion of surface–wave data and topographic elevation. <i>Geochemistry, Geophysics, Geosystems</i> , 2012, 13, .	2.5	53
14	Seismic tomography of the Arctic region: inferences for the thermal structure and evolution of the lithosphere. <i>Geological Society Special Publication</i> , 2018, 460, 419-440.	1.3	52
15	WINTERC-G: mapping the upper mantle thermochemical heterogeneity from coupled geophysical–petrological inversion of seismic waveforms, heat flow, surface elevation and gravity satellite data. <i>Geophysical Journal International</i> , 2021, 226, 146-191.	2.4	49
16	Integrated geophysical-petrological modeling of lithosphere-asthenosphere boundary in central Tibet using electromagnetic and seismic data. <i>Geochemistry, Geophysics, Geosystems</i> , 2014, 15, 3965-3988.	2.5	40
17	Lithospheric structure in the Atlantic–Mediterranean transition zone (southern Spain, northern) <i>Tj ETQq1 1 0.784314 rgBT /Overload</i> 2006, 338, 140-151.	1.2	38
18	The Canary Islands hot spot: New insights from 3D coupled geophysical–petrological modelling of the lithosphere and uppermost mantle. <i>Earth and Planetary Science Letters</i> , 2015, 409, 71-88.	4.4	37

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19	Integrated geophysical modelling of a lateral transition zone in the lithospheric mantle under Norway and Sweden. <i>Geophysical Journal International</i> , 2013, 194, 1358-1373.	2.4	32
20	Velocity-conductivity relations for cratonic lithosphere and their application: Example of Southern Africa. <i>Geochemistry, Geophysics, Geosystems</i> , 2013, 14, 806-827.	2.5	31
21	The lithosphere-asthenosphere system beneath Ireland from integrated geophysical-petrological modeling II: 3D thermal and compositional structure. <i>Lithos</i> , 2014, 189, 49-64.	1.4	31
22	Decoupled crust-mantle accommodation of Africa-Eurasia convergence in the NW Moroccan margin. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	30
23	Perturbing effects of sub-lithospheric mass anomalies in GOCE gravity gradient and other gravity data modelling: Application to the Atlantic-Mediterranean transition zone. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2015, 35, 54-69.	2.8	27
24	Shear-Wave Velocity Structure of Southern Africa's Lithosphere: Variations in the Thickness and Composition of Cratons and Their Effect on Topography. <i>Geochemistry, Geophysics, Geosystems</i> , 2018, 19, 1499-1518.	2.5	24
25	Hot Upper Mantle Beneath the Tristan da Cunha Hotspot From Probabilistic Rayleigh-Wave Inversion and Petrological Modeling. <i>Geochemistry, Geophysics, Geosystems</i> , 2018, 19, 1412-1428.	2.5	23
26	Constraining the geotherm beneath the British Isles from Bayesian inversion of Curie depth: integrated modelling of magnetic, geothermal, and seismic data. <i>Solid Earth</i> , 2019, 10, 839-850.	2.8	23
27	The lithosphere-asthenosphere system beneath Ireland from integrated geophysical-petrological modeling I: Observations, 1D and 2D hypothesis testing and modeling. <i>Lithos</i> , 2014, 189, 28-48.	1.4	22
28	Geochemical and geophysical constrains on the dynamic topography of the southern African plateau. <i>Geochemistry, Geophysics, Geosystems</i> , 2017, 18, 3556-3575.	2.5	20
29	On Joint Modelling of Electrical Conductivity and Other Geophysical and Petrological Observables to Infer the Structure of the Lithosphere and Underlying Upper Mantle. <i>Surveys in Geophysics</i> , 2017, 38, 963-1004.	4.6	18
30	Lithospheric structure of Central Europe: Puzzle pieces from Pannonian Basin to Trans-European Suture Zone resolved by geophysical-petrological modeling. <i>Tectonics</i> , 2016, 35, 722-753.	2.8	17
31	Geodynamic Modeling of Edge-Delamination Driven by Subduction-Transform Edge Propagator Faults: The Westernmost Mediterranean Margin (Central Betic Orogen) Case Study. <i>Frontiers in Earth Science</i> , 2020, 8, .	1.8	12
32	3-D thermochemical structure of lithospheric mantle beneath the Iranian plateau and surrounding areas from geophysical-petrological modelling. <i>Geophysical Journal International</i> , 2020, 222, 1295-1315.	2.4	12
33	On the origin of the Canary Islands: Insights from mantle convection modelling. <i>Earth and Planetary Science Letters</i> , 2022, 584, 117506.	4.4	12
34	Integrating Gravity and Surface Elevation With Magnetic Data: Mapping the Curie Temperature Beneath the British Isles and Surrounding Areas. <i>Frontiers in Earth Science</i> , 2018, 6, .	1.8	9
35	A refined model of sedimentary rock cover in the southeastern part of the Congo basin from GOCE gravity and vertical gravity gradient observations. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2015, 35, 70-87.	2.8	8
36	The topography of the Iberian Peninsula from integrated geophysical-petrological multi-data inversion. <i>Physics of the Earth and Planetary Interiors</i> , 2021, 314, 106691.	1.9	6

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37	Comment on "Deep resistivity cross section of the intraplate Atlas Mountains (NW Africa): New evidence of anomalous mantle and related Quaternary volcanism". <i>Tectonics</i> , 2012, 31, .	2.8	4
38	Probabilistic Surface Heat Flow Estimates Assimilating Paleoclimate History: New Implications for the Thermochemical Structure of Ireland. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 10,951.	3.4	4
39	Benchmark forward gravity schemes: the gravity field of a realistic lithosphere model WINTERC-G. <i>Solid Earth</i> , 2022, 13, 849-873.	2.8	4
40	Long-Wavelength Gravity Field Constraint on the Lower Mantle Viscosity in North America. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2020JB020484.	3.4	2
41	A new integrated geophysical-petrological global 3-D model of upper-mantle electrical conductivity validated by the Swarm M_2 tidal magnetic field. <i>Geophysical Journal International</i> , 2021, 226, 742-763.	2.4	2
42	Inversion of the satellite observations of the tidally induced magnetic field in terms of 3-D upper-mantle electrical conductivity: method and synthetic tests. <i>Geophysical Journal International</i> , 2022, 229, 2115-2132.	2.4	1
43	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