

Xavier Garcia

List of Publications by Year in descending order

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32
papers

1,080
citations

430754

18
h-index

434063

31
g-index

34
all docs

34
docs citations

34
times ranked

736
citing authors

#	ARTICLE	IF	CITATIONS
1	The electrical structure of the Slave craton. <i>Lithos</i> , 2003, 71, 505-527.	0.6	133
2	Lithospheric structure, evolution and diamond prospectivity of the Rehoboth Terrane and western Kaapvaal Craton, southern Africa: Constraints from broadband magnetotellurics. <i>Lithos</i> , 2009, 112, 93-105.	0.6	87
3	Atmospheric sources for audio-magnetotelluric (AMT) sounding. <i>Geophysics</i> , 2002, 67, 448-458.	1.4	85
4	Electrical lithosphere beneath the Kaapvaal craton, southern Africa. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	85
5	Magnetotelluric 3-D inversion—a review of two successful workshops on forward and inversion code testing and comparison. <i>Geophysical Journal International</i> , 2013, 193, 1216-1238.	1.0	79
6	Robust processing of magnetotelluric data in the AMT dead band using the continuous wavelet transform. <i>Geophysics</i> , 2008, 73, F223-F234.	1.4	67
7	Area selection for diamonds using magnetotellurics: Examples from southern Africa. <i>Lithos</i> , 2009, 112, 83-92.	0.6	65
8	Lithospheric structures and Precambrian terrane boundaries in northeastern Botswana revealed through magnetotelluric profiling as part of the Southern African Magnetotelluric Experiment. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	64
9	Electrical anisotropy of South African lithosphere compared with seismic anisotropy from shear-wave splitting analyses. <i>Physics of the Earth and Planetary Interiors</i> , 2006, 158, 226-239.	0.7	55
10	The electrical resistivity structure of Archean to Tertiary lithosphere along 3200 km of SNORCLE profiles, northwestern Canada. <i>Canadian Journal of Earth Sciences</i> , 2005, 42, 1257-1275.	0.6	42
11	Nonstationary magnetotelluric data processing with instantaneous parameter. <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 1634-1654.	1.4	41
12	Okak Bay AMT dataset case study: Lessons in dimensionality and scale. <i>Geophysics</i> , 2003, 68, 70-91.	1.4	34
13	Robust Processing of Magnetotelluric Data from the Auroral Zone. <i>Journal of Geomagnetism and Geoelectricity</i> , 1997, 49, 1451-1468.	0.8	30
14	A new methodology for the acquisition and processing of audio-magnetotelluric (AMT) data in the AMT dead band. <i>Geophysics</i> , 2005, 70, G119-G126.	1.4	30
15	Lithospheric thinning under the Araripe Basin (NE Brazil) from a long-period magnetotelluric survey: Constraints for tectonic inversion. <i>Gondwana Research</i> , 2019, 68, 174-184.	3.0	24
16	2D inversion of 3D magnetotelluric data: The Kayabe dataset. <i>Earth, Planets and Space</i> , 1999, 51, 1135-1143.	0.9	21
17	Thin lithosphere beneath the central Appalachian Mountains: A combined seismic and magnetotelluric study. <i>Earth and Planetary Science Letters</i> , 2019, 519, 308-316.	1.8	19
18	Structure of the mantle beneath the Boran Basin from magnetotelluric soundings. <i>Geochemistry, Geophysics, Geosystems</i> , 2015, 16, 4261-4274.	1.0	18

#	ARTICLE	IF	CITATIONS
19	Electric and magnetic galvanic distortion decomposition of tensor CSAMT data. Application to data from the Buchans Mine (Newfoundland, Canada). <i>Geophysical Journal International</i> , 2003, 154, 957-969.	1.0	15
20	Internal structure of the western flank of the Cumbre Vieja volcano, La Palma, Canary Islands, from land magnetotelluric imaging. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	13
21	Geophysical and geochemical survey of a large marine pockmark on the Malin Shelf, Ireland. <i>Geochemistry, Geophysics, Geosystems</i> , 2012, 13, .	1.0	13
22	Electrical Resistivity Anomalies Offshore a Carbonate Coastline: Evidence for Freshened Groundwater?. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091909.	1.5	13
23	Chapter 13 Decomposition of three-dimensional magnetotelluric data. <i>Methods in Geochemistry and Geophysics</i> , 2002, , 235-250.	0.2	7
24	Electromagnetic image of the Trans-Hudson orogen – THO94 transect. <i>Canadian Journal of Earth Sciences</i> , 2005, 42, 479-493.	0.6	7
25	Optimizing an experimental design for a CSEM experiment: methodology and synthetic tests. <i>Geophysical Journal International</i> , 2014, 197, 135-148.	1.0	6
26	Constraints on a shallow offshore gas environment determined by a multidisciplinary geophysical approach: The Malin Sea, NW Ireland. <i>Geochemistry, Geophysics, Geosystems</i> , 2014, 15, 867-885.	1.0	6
27	Lithospheric structure of the western Borborema Province from receiver functions and surface-wave dispersion: Implications for basin inversion. <i>Tectonophysics</i> , 2021, 816, 229024.	0.9	6
28	NONSTATIONARY TIME SERIES CONVOLUTION: ON THE RELATION BETWEEN THE HILBERT – HUANG AND FOURIER TRANSFORM. <i>Advances in Adaptive Data Analysis</i> , 2013, 05, 1350004.	0.6	5
29	The use of multibeam backscatter angular response for marine sediment characterisation by comparison with shallow electromagnetic conductivity. <i>Applied Acoustics</i> , 2016, 112, 181-191.	1.7	4
30	Amplitude-phase decomposition of the magnetotelluric impedance tensor. <i>Geophysics</i> , 2019, 84, E301-E310.	1.4	3
31	Appraisal of magnetotelluric galvanic electric distortion by optimizing amplitude and phase tensor relations. <i>Geophysics</i> , 2020, 85, E79-E98.	1.4	3
32	Advances in aspects of the application of magnetotellurics for mineral exploration. , 2000, , .		0