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	Electrical Resistivity Anomalies Offshore a Carbonate Coastline: Evidence for Freshened Groundwater?. Geophysical Research Letters, 2021, 48, e2020GL091909.	1.5	13
2	Lithospheric structure of the western Borborema Province from receiver functions and surface-wave dispersion: Implications for basin inversion. Tectonophysics, 2021, 816, 229024.	0.9	6
3	Appraisal of magnetotelluric galvanic electric distortion by optimizing amplitude and phase tensor relations. Geophysics, 2020, 85, E79-E98.	1.4	3
4	Amplitude-phase decomposition of the magnetotelluric impedance tensor. Geophysics, 2019, 84, E301-E310.	1.4	3
5	Thin lithosphere beneath the central Appalachian Mountains: A combined seismic and magnetotelluric study. Earth and Planetary Science Letters, 2019, 519, 308-316.	1.8	19
6	Lithospheric thinning under the Araripe Basin (NE Brazil) from a long-period magnetotelluric survey: Constraints for tectonic inversion. Gondwana Research, 2019, 68, 174-184.	3.0	24
7	The use of multibeam backscatter angular response for marine sediment characterisation by comparison with shallow electromagnetic conductivity. Applied Acoustics, 2016, 112, 181-191.	1.7	4
8	Structure of the mantle beneath the <scp>A</scp>lboran <scp>B</scp>asin from magnetotelluric soundings. Geochemistry, Geophysics, Geosystems, 2015, 16, 4261-4274.	1.0	18
9	Optimizing an experimental design for a CSEM experiment: methodology and synthetic tests. Geophysical Journal International, 2014, 197, 135-148.	1.0	6
10	Constraints on a shallow offshore gas environment determined by a multidisciplinary geophysical approach: The Malin Sea, NW Ireland. Geochemistry, Geophysics, Geosystems, 2014, 15, 867-885.	1.0	6
11	Nonstationary magnetotelluric data processing with instantaneous parameter. Journal of Geophysical Research: Solid Earth, 2014, 119, 1634-1654.	1.4	41
12	NONSTATIONARY TIME SERIES CONVOLUTION: ON THE RELATION BETWEEN THE HILBERTâ€“HUANG AND FOURIER TRANSFORM. Advances in Adaptive Data Analysis, 2013, 05, 1350004.	0.6	5
13	Magnetotelluric 3-D inversionâ€”a review of two successful workshops on forward and inversion code testing and comparison. Geophysical Journal International, 2013, 193, 1216-1238.	1.0	79
14	Geophysical and geochemical survey of a large marine pockmark on the Malin Shelf, Ireland. Geochemistry, Geophysics, Geosystems, 2012, 13, .	1.0	13
15	Lithospheric structures and Precambrian terrane boundaries in northeastern Botswana revealed through magnetotelluric profiling as part of the Southern African Magnetotelluric Experiment. Journal of Geophysical Research, 2011, 116, .	3.3	64
16	Electrical lithosphere beneath the Kaapvaal craton, southern Africa. Journal of Geophysical Research, 2011, 116, .	3.3	85
17	Internal structure of the western flank of the Cumbre Vieja volcano, La Palma, Canary Islands, from land magnetotelluric imaging. Journal of Geophysical Research, 2010, 115, .	3.3	13
18	Area selection for diamonds using magnetotellurics: Examples from southern Africa. Lithos, 2009, 112, 83-92.	0.6	65

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19	Lithospheric structure, evolution and diamond prospectivity of the Rehoboth Terrane and western Kaapvaal Craton, southern Africa: Constraints from broadband magnetotellurics. Lithos, 2009, 112, 93-105.	0.6	87
20	Robust processing of magnetotelluric data in the AMT dead band using the continuous wavelet transform. Geophysics, 2008, 73, F223-F234.	1.4	67
21	Electrical anisotropy of South African lithosphere compared with seismic anisotropy from shear-wave splitting analyses. Physics of the Earth and Planetary Interiors, 2006, 158, 226-239.	0.7	55
22	A new methodology for the acquisition and processing of audio-magnetotelluric (AMT) data in the AMT dead band. Geophysics, 2005, 70, G119-G126.	1.4	30
23	The electrical resistivity structure of Archean to Tertiary lithosphere along 3200 km of SNORCLE profiles, northwestern Canada. Canadian Journal of Earth Sciences, 2005, 42, 1257-1275.	0.6	42
24	Electromagnetic image of the Trans-Hudson orogen Â— THO94 transect. Canadian Journal of Earth Sciences, 2005, 42, 479-493.	0.6	7
25	The electrical structure of the Slave craton. Lithos, 2003, 71, 505-527.	0.6	133
26	Electric and magnetic galvanic distortion decomposition of tensor CSAMT data. Application to data from the Buchans Mine (Newfoundland, Canada). Geophysical Journal International, 2003, 154, 957-969.	1.0	15
27	Okak Bay AMT dataâ€set case study: Lessons in dimensionality and scale. Geophysics, 2003, 68, 70-91.	1.4	34
28	Atmospheric sources for audio-magnetotelluric (AMT) sounding. Geophysics, 2002, 67, 448-458.	1.4	85
29	Chapter 13 Decomposition of three-dimensional magnetotelluric data. Methods in Geochemistry and Geophysics, 2002, , 235-250.	0.2	7
30	Advances in aspects of the application of magnetotellurics for mineral exploration. , 2000, , .		0
31	2D inversion of 3D magnetotelluric data: The Kayabe dataset. Earth, Planets and Space, 1999, 51, 1135-1143.	0.9	21
32	Robust Processing of Magnetotelluric Data from the Auroral Zone. Journal of Geomagnetism and Geoelectricity, 1997, 49, 1451-1468.	0.8	30