

Marion Jegen

List of Publications by Year in descending order

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32
papers

948
citations

430874

18
h-index

477307

29
g-index

33
all docs

33
docs citations

33
times ranked

896
citing authors

#	ARTICLE	IF	CITATIONS
1	A framework for 3-D joint inversion of MT, gravity and seismic refraction data. <i>Geophysical Journal International</i> , 2011, 184, 477-493.	2.4	211
2	Evaluation of gas hydrate deposits in an active seep area using marine controlled source electromagnetics: Results from Opouawe Bank, Hikurangi Margin, New Zealand. <i>Marine Geology</i> , 2010, 272, 79-88.	2.1	86
3	On mapping seafloor mineral deposits with central loop transient electromagnetics. <i>Geophysics</i> , 2012, 77, E171-E184.	2.6	54
4	3D characterisation and quantification of an offshore freshened groundwater system in the Canterbury Bight. <i>Nature Communications</i> , 2020, 11, 1372.	12.8	48
5	Verification of velocity-resistivity relationships derived from structural joint inversion with borehole data. <i>Geophysical Research Letters</i> , 2013, 40, 3596-3601.	4.0	47
6	An adaptive coupling strategy for joint inversions that use petrophysical information as constraints. <i>Journal of Applied Geophysics</i> , 2017, 136, 279-297.	2.1	47
7	Massively parallel forward modeling of scalar and tensor gravimetry data. <i>Computers and Geosciences</i> , 2010, 36, 680-686.	4.2	45
8	Preliminary interpretation of electromagnetic, heat flow, seismic, and geochemical data for gas hydrate distribution across the Porangahau Ridge, New Zealand. <i>Marine Geology</i> , 2010, 272, 89-98.	2.1	45
9	Hunting for the Tristan mantle plume – An upper mantle tomography around the volcanic island of Tristan da Cunha. <i>Earth and Planetary Science Letters</i> , 2017, 462, 122-131.	4.4	34
10	Offshore Freshened Groundwater in Continental Margins. <i>Reviews of Geophysics</i> , 2021, 59, e2020RG000706.	23.0	31
11	Marine dipole-dipole controlled source electromagnetic and coincident-loop transient electromagnetic experiments to detect seafloor massive sulphides: effects of three-dimensional bathymetry. <i>Geophysical Journal International</i> , 2018, 215, 2156-2171.	2.4	26
12	Thickness of the oceanic crust, the lithosphere, and the mantle transition zone in the vicinity of the Tristan da Cunha hot spot estimated from ocean-bottom and ocean-island seismometer receiver functions. <i>Tectonophysics</i> , 2017, 716, 33-51.	2.2	25
13	A self-potential investigation of submarine massive sulfides: Palinuro Seamount, Tyrrhenian Sea. <i>Geophysics</i> , 2017, 82, A51-A56.	2.6	25
14	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
15	How Offshore Groundwater Shapes the Seafloor. <i>Eos</i> , 2018, 99, .	0.1	22
16	The use of rotational invariants for the interpretation of marine CSEM data with a case study from the North Alex mud volcano, West Nile Delta. <i>Geophysical Journal International</i> , 2015, 201, 224-245.	2.4	21
17	Marine magnetotellurics imaged no distinct plume beneath the Tristan da Cunha hotspot in the southern Atlantic Ocean. <i>Tectonophysics</i> , 2017, 716, 52-63.	2.2	21
18	Approximations for the 2-D coast effect on marine magnetotelluric data. <i>Geophysical Journal International</i> , 2012, 189, 357-368.	2.4	19

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19	GPU parallelization of a three dimensional marine CSEM code. Computers and Geosciences, 2013, 58, 91-99.	4.2	19
20	Structure of the mantle beneath the Iberian Basin from magnetotelluric soundings. Geochemistry, Geophysics, Geosystems, 2015, 16, 4261-4274.	2.5	18
21	3-D magnetotelluric image of offshore magmatism at the Walvis Ridge and rift basin. Tectonophysics, 2016, 683, 98-108.	2.2	15
22	Electrical Resistivity Anomalies Offshore a Carbonate Coastline: Evidence for Freshened Groundwater?. Geophysical Research Letters, 2021, 48, e2020GL091909.	4.0	13
23	Rapid resistivity imaging for marine controlled-source electromagnetic surveys with two transmitter polarizations: An application to the North Alex mud volcano, West Nile Delta. Geophysics, 2015, 80, E97-E110.	2.6	12
24	How to Find Buried and Inactive Seafloor Massive Sulfides Using Transient EM - A Case Study from the Palinuro Seamount. , 2016, , .		9
25	A first application of a marine inductive source electromagnetic configuration with remote electric dipole receivers: Palinuro Seamount, Tyrrhenian Sea. Geophysical Prospecting, 2018, 66, 1415-1432.	1.9	7
26	On electric fields produced by inductive sources on the seafloor. Geophysics, 2017, 82, E297-E313.	2.6	6
27	Seafloor evidence for pre-shield volcanism above the Tristan da Cunha mantle plume. Nature Communications, 2020, 11, 4543.	12.8	5
28	Comparison of Different Coupling Methods for Joint Inversion of Geophysical Data: A Case Study for the Namibian Continental Margin. Journal of Geophysical Research: Solid Earth, 2021, 126, e2021JB022092.	3.4	5
29	Seismicity in the Vicinity of the Tristan Da Cunha Hot Spot: Particular Plate Tectonics and Mantle Plume Presence. Journal of Geophysical Research: Solid Earth, 2017, 122, 10,427.	3.4	4
30	Calculating Time-Domain Controlled Source Electromagnetic Signals with MARE2DEM. , 2018, , .		3
31	Step-on versus step-off signals in time-domain controlled source electromagnetic methods using a grounded electric dipole. Geophysical Prospecting, 2020, 68, 2825-2844.	1.9	2
32	Electrical and electromagnetic methods in exploring for seafloor massive sulfide deposits. , 2018, , .		0