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	Offshore Freshened Groundwater in Continental Margins. Reviews of Geophysics, 2021, 59, e2020RG000706.	23.0	31
2	Electrical Resistivity Anomalies Offshore a Carbonate Coastline: Evidence for Freshened Groundwater?. Geophysical Research Letters, 2021, 48, e2020GL091909.	4.0	13
3	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
4	Stepâ€on versus stepâ€off signals in timeâ€domain controlled source electromagnetic methods using a grounded electric dipole. Geophysical Prospecting, 2020, 68, 2825-2844.	1.9	2
5	Seafloor evidence for pre-shield volcanism above the Tristan da Cunha mantle plume. Nature Communications, 2020, 11, 4543.	12.8	5
6	3D characterisation and quantification of an offshore freshened groundwater system in the Canterbury Bight. Nature Communications, 2020, 11, 1372.	12.8	48
7	Marine dipoleâ€“dipole controlled source electromagnetic and coincident-loop transient electromagnetic experiments to detect seafloor massive sulphides: effects of three-dimensional bathymetry. Geophysical Journal International, 2018, 215, 2156-2171.	2.4	26
8	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
9	Hot Upper Mantle Beneath the Tristan da Cunha Hotspot From Probabilistic Rayleighâ€Wave Inversion and Petrological Modeling. Geochemistry, Geophysics, Geosystems, 2018, 19, 1412-1428.	2.5	23
10	How Offshore Groundwater Shapes the Seafloor. Eos, 2018, 99, .	0.1	22
11	Calculating Time-Domain Controlled Source Electromagnetic Signals with MARE2DEM. , 2018, , .		3
12	Electrical and electromagnetic methods in exploring for seafloor massive sulfide deposits. , 2018, , .		0
13	An adaptive coupling strategy for joint inversions that use petrophysical information as constraints. Journal of Applied Geophysics, 2017, 136, 279-297.	2.1	47
14	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. Tectonophysics, 2017, 716, 33-51.	2.2	25
15	Hunting for the Tristan mantle plume â€“ An upper mantle tomography around the volcanic island of Tristan da Cunha. Earth and Planetary Science Letters, 2017, 462, 122-131.	4.4	34
16	A self-potential investigation of submarine massive sulfides: Palinuro Seamount, Tyrrhenian Sea. Geophysics, 2017, 82, A51-A56.	2.6	25
17	On electric fields produced by inductive sources on the seafloor. Geophysics, 2017, 82, E297-E313.	2.6	6
18	Marine magnetotellurics imaged no distinct plume beneath the Tristan da Cunha hotspot in the southern Atlantic Ocean. Tectonophysics, 2017, 716, 52-63.	2.2	21

#	Article	IF	Citations
19	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
20	3-D magnetotelluric image of offshore magmatism at the Walvis Ridge and rift basin. Tectonophysics, 2016, 683, 98-108.	2.2	15
21	How to Find Buried and Inactive Seafloor Massive Sulfides Using Transient EM - A Case Study from the Palinuro Seamount. , 2016, , .		9
22	Structure of the mantle beneath the <scp>A</scp>lboran <scp>B</scp>asin from magnetotelluric soundings. Geochemistry, Geophysics, Geosystems, 2015, 16, 4261-4274.	2.5	18
23	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. Geophysical Journal International, 2015, 201, 224-245.	2.4	21
24	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
25	Verification of velocityâ€resistivity relationships derived from structural joint inversion with borehole data. Geophysical Research Letters, 2013, 40, 3596-3601.	4.0	47
26	GPU parallelization of a three dimensional marine CSEM code. Computers and Geosciences, 2013, 58, 91-99.	4.2	19
27	On mapping seafloor mineral deposits with central loop transient electromagnetics. Geophysics, 2012, 77, E171-E184.	2.6	54
28	Approximations for the 2-D coast effect on marine magnetotelluric data. Geophysical Journal International, 2012, 189, 357-368.	2.4	19
29	A framework for 3-D joint inversion of MT, gravity and seismic refraction data. Geophysical Journal International, 2011, 184, 477-493.	2.4	211
30	Massively parallel forward modeling of scalar and tensor gravimetry data. Computers and Geosciences, 2010, 36, 680-686.	4.2	45
31	Evaluation of gas hydrate deposits in an active seep area using marine controlled source electromagnetics: Results from Opouawe Bank, Hikurangi Margin, New Zealand. Marine Geology, 2010, 272, 79-88.	2.1	86
32	Preliminary interpretation of electromagnetic, heat flow, seismic, and geochemical data for gas hydrate distribution across the Porangahau Ridge, New Zealand. Marine Geology, 2010, 272, 89-98.	2.1	45