Alberto Malinverno

List of Publications by Year
in descending order

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67 papers	5,493 citations	126708 33 h-index	118652 62 g-index
71 all docs	71 docs citations	71 times ranked	4734 citing authors

#	Article	IF	Citations
1	Evidence for a Northern Hemispheric trigger of the 100,000-y glacial cyclicity. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	19
2	A Late Cretaceousâ€Eocene Geomagnetic Polarity Timescale (MQSD20) That Steadies Spreading Rates on Multiple Midâ€Ocean Ridge Flanks. Journal of Geophysical Research: Solid Earth, 2020, 125, e2020JB020034.	1.4	14
3	Factors Controlling Shortâ€Range Methane Migration of Gas Hydrate Accumulations in Thin Coarseâ€Grained Layers. Geochemistry, Geophysics, Geosystems, 2019, 20, 3985-4000.	1.0	12
4	Mechanisms of Methane Hydrate Formation in Geological Systems. Reviews of Geophysics, 2019, 57, 1146-1196.	9.0	126
5	Orbital forcing of carbonate versus siliceous productivity in the late Albianâ€"late Cenomanian (Umbria-Marche Basin, central Italy). Newsletters on Stratigraphy, 2019, 52, 197-220.	0.5	5
6	Glacial Cycles Influence Marine Methane Hydrate Formation. Geophysical Research Letters, 2018, 45, 724-732.	1.5	7
7	Assessing uncertainties in high-resolution, multifrequency receiver-function inversion: A comparison with borehole data. Geophysics, 2018, 83, KS11-KS22.	1.4	20
8	Burial-driven methane recycling in marine gas hydrate systems. Earth and Planetary Science Letters, 2018, 499, 197-204.	1.8	21
9	Proterozoic Milankovitch cycles and the history of the solar system. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 6363-6368.	3.3	88
10	Gas hydrate reservoirs and gas migration mechanisms in the Terrebonne Basin, Gulf of Mexico. Marine and Petroleum Geology, 2017, 86, 1357-1373.	1.5	48
11	Linking basinâ€scale and poreâ€scale gas hydrate distribution patterns in diffusionâ€dominated marine hydrate systems. Geochemistry, Geophysics, Geosystems, 2017, 18, 653-675.	1.0	23
12	Shortâ€range, overpressureâ€driven methane migration in coarseâ€grained gas hydrate reservoirs. Geophysical Research Letters, 2016, 43, 9500-9508.	1.5	32
13	Horizontal compressive stress regime on the northern Cascadia margin inferred from borehole breakouts. Geochemistry, Geophysics, Geosystems, 2016, 17, 3529-3545.	1.0	6
14	Horizontal principal stress orientation in the Costa Rica Seismogenesis Project (CRISP) transect from borehole breakouts. Geochemistry, Geophysics, Geosystems, 2016, 17, 65-77.	1.0	14
15	The effect of temperature on organic carbon degradation in marine sediments. Scientific Reports, 2015, 5, 17861.	1.6	28
16	Permeability and porosity of hydrate-bearing sediments in the northern Gulf of Mexico. Marine and Petroleum Geology, 2015, 68, 551-564.	1.5	37
17	Testing short-range migration of microbial methane as a hydrate formation mechanism: Results from Andaman Sea and Kumano Basin drill sites and global implications. Earth and Planetary Science Letters, 2015, 422, 105-114.	1.8	52
18	Local three-dimensional earthquake tomography by trans-dimensional Monte Carlo sampling. Geophysical Journal International, 2015, 201, 1598-1617.	1.0	64

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19	Natural gas hydrates occupying fractures: A focus on non-vent sites on the Indian continental margin and the northern Gulf of Mexico. Marine and Petroleum Geology, 2014, 58, 278-291.	1.5	48
20	Short migration of methane into a gas hydrateâ€bearing sand layer at Walker Ridge, Gulf of Mexico. Geochemistry, Geophysics, Geosystems, 2013, 14, 283-291.	1.0	52
21	Cominco American well: Implications for the reconstruction of the Sevier orogen and basin and range extension in west-central Utah. Numerische Mathematik, 2012, 312, 508-533.	0.7	2
22	A Cenozoic record of the equatorial Pacific carbonate compensation depth. Nature, 2012, 488, 609-614.	13.7	342
23	Mâ€sequence geomagnetic polarity time scale (MHTC12) that steadies global spreading rates and incorporates astrochronology constraints. Journal of Geophysical Research, 2012, 117, .	3.3	71
24	Modeling sulfate reduction in methane hydrate-bearing continental margin sediments: Does a sulfate-methane transition require anaerobic oxidation of methane?. Geochemistry, Geophysics, Geosystems, 2011, 12, n/a-n/a.	1.0	54
25	Electrical anisotropy due to gas hydrate-filled fractures. Geophysics, 2010, 75, F173-F185.	1.4	92
26	Receiver function inversion by trans-dimensional Monte Carlo sampling. Geophysical Journal International, 2010, , .	1.0	56
27	Orbital tuning as an inverse problem: Chronology of the early Aptian oceanic anoxic event 1a (Selli) Tj ETQq1 1 0.784314 rgBT /Overlock	3.0	125
28	Marine gas hydrates in thin sand layers that soak up microbial methane. Earth and Planetary Science Letters, 2010, 292, 399-408.	1.8	114
29	16. Evaluation of Natural Gas-Hydrate Systems Using Borehole Logs. , 2010, , 239-261.		16
30	Systematic alongâ€axis tidal triggering of microearthquakes observed at 9Â°50â€²N East Pacific Rise. Geophysical Research Letters, 2009, 36, .	1.5	40
31	Pacific trench motions controlled by the asymmetric plate configuration. Tectonics, 2008, 27, .	1.3	9
32	Methane hydrate formation in turbidite sediments of northern Cascadia, IODP Expedition 311. Earth and Planetary Science Letters, 2008, 271, 170-180.	1.8	161
33	Gas hydrate occurrence from pore water chlorinity and downhole logs in a transect across the northern Cascadia margin (Integrated Ocean Drilling Program Expedition 311). Journal of Geophysical Research, 2008, 113, .	3.3	118
34	Gas hydrate transect across Northern Cascadia Margin. Eos, 2006, 87, 325.	0.1	14
35	Two ways to quantify uncertainty in geophysical inverse problems. Geophysics, 2006, 71, W15-W27.	1.4	51
36	Monte-Carlo Bayesian look-ahead inversion of walkaway vertical seismic profiles. Geophysical Prospecting, 2005, 53, 689-703.	1.0	39

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37	Fast Model Updates Using Wavelets. Multiscale Modeling and Simulation, 2005, 3, 106-130.	0.6	4
38	Expanded uncertainty quantification in inverse problems: Hierarchical Bayes and empirical Bayes. Geophysics, 2004, 69, 1005-1016.	1.4	227
39	Parsimonious Bayesian Markov chain Monte Carlo inversion in a nonlinear geophysical problem. Geophysical Journal International, 2002, 151, 675-688.	1.0	364
40	A Bayesian criterion for simplicity in inverse problem parametrization. Geophysical Journal International, 2000, 140, 267-285.	1.0	48
41	A dualâ€grid nonlinear inversion technique with applications to the interpretation of dc resistivity data. Geophysics, 2000, 65, 1733-1745.	1.4	26
42	Bayesian inversion of DC electrical measurements with uncertainties for reservoir monitoring. Inverse Problems, 2000, 16, 1343-1356.	1.0	25
43	A Monte Carlo method to quantify uncertainty in the inversion of zeroâ€offset VSP data. , 2000, , .		28
44	On the power law size distribution of turbidite beds. Basin Research, 1997, 9, 263-274.	1.3	34
45	Fractals and Ocean Floor Topography: A Review and a Model. , 1995, , 107-130.		16
46	Quantitative fault studies on the East Pacific Rise: A comparison of sonar imaging techniques. Journal of Geophysical Research, 1994, 99, 15205.	3.3	76
47	The length-scaling properties of topography. Journal of Geophysical Research, 1994, 99, 13997-14012.	3.3	111
48	Morphology of a ?superfast? Mid-Ocean Ridge crest and flanks: The East Pacific Rise, 7ï¿½?9ï¿½ S. Marine Geophysical Researches, 1993, 15, 65-75.	0.5	51
49	Abyssal Hill Segmentation: Quantitative analysis of the East Pacific Rise flanks 7Â°Sâ€“9Â°S. Journal of Geophysical Research, 1993, 98, 13851-13862.	3.3	43
50	Fault strain and seismic coupling on midâ€ocean ridges. Journal of Geophysical Research, 1993, 98, 17911-17920.	3.3	154
51	Normal faulting and the topographic roughness of midâ€ocean ridge flanks. Journal of Geophysical Research, 1993, 98, 17921-17939.	3.3	34
52	Wilkes transform system and "nannoplate". Geology, 1993, 21, 623.	2.0	26
53	Reply [to â€œComment on â€˜A quantitative study of the axial topography of the Midâ€Atlantic Ridgeâ€™ by Alberto Malinvernoâ€]. Journal of Geophysical Research, 1991, 96, 2049-2056.	3.3	2
54	The regional tectonic fabric of the East Pacific Rise from 12Â°50â€²N to 15Â°10â€²N. Journal of Geophysical Research, 1991, 96, 7995-8017.	3.3	100

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55	Processing of SeaMARC swath sonar data. IEEE Journal of Oceanic Engineering, 1990, 15, 14-23.	2.1	52
56	A simple method to estimate the fractal dimension of a selfâ€affine series. Geophysical Research Letters, 1990, 17, 1953-1956.	1.5	157
57	Abyssal hill topography as an indicator of episodicity in crustal accretion and deformation. Earth and Planetary Science Letters, 1990, 99, 154-169.	1.8	32
58	A quantitative study of the axial topography of the Midâ€Atlantic Ridge. Journal of Geophysical Research, 1990, 95, 2645-2660.	3.3	23
59	Testing linear models of sea-floor topography. Pure and Applied Geophysics, 1989, 131, 139-155.	0.8	36
60	Segmentation of topographic profiles of the seafloor based on a self-affine model. IEEE Journal of Oceanic Engineering, 1989, 14, 348-359.	2.1	26
61	A stochastic model for the creation of abyssal hill topography at a slow spreading center. Journal of Geophysical Research, 1989, 94, 1665-1675.	3.3	30
62	A characterization of the spectral density of residual ocean floor topography. Geophysical Research Letters, 1988, 15, 1401-1404.	1.5	57
63	Extension in the Tyrrhenian Sea and shortening in the Apennines as result of arc migration driven by sinking of the lithosphere. Tectonics, 1986, 5, 227-245.	1.3	1,602
64	Morphology of the Ebro fan valleys from SeaMARC and sea beam profiles. Geo-Marine Letters, 1985, 5, 141-148.	0.5	22
65	Morphology and downslope sediment displacement in a deep-sea valley, the Valencia Valley (Northwestern Mediterranean). Geo-Marine Letters, 1985, 5, 149-156.	0.5	20
66	Data report: Monte Carlo correlation of sediment records from core and downhole log measurements at Sites U1337 and U1338 (IODP Expedition 321). Proceedings of the Integrated Ocean Drilling Program Integrated Ocean Drilling Program, 0, , .	1.0	5
67	Expedition 344 summary. Proceedings of the Integrated Ocean Drilling Program Integrated Ocean Drilling Program, 0, , .	1.0	22