

Alberto Malinverno

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68

papers

4,352

citations

30

h-index

65

g-index

71

ext. papers

4,877

ext. citations

5.1

avg, IF

5.66

L-index

#	Paper	IF	Citations
68	Extension in the Tyrrhenian Sea and shortening in the Apennines as result of arc migration driven by sinking of the lithosphere. <i>Tectonics</i> , 1986 , 5, 227-245	4.3	1351
67	Parsimonious Bayesian Markov chain Monte Carlo inversion in a nonlinear geophysical problem. <i>Geophysical Journal International</i> , 2002 , 151, 675-688	2.6	290
66	A Cenozoic record of the equatorial Pacific carbonate compensation depth. <i>Nature</i> , 2012 , 488, 609-14	50.4	241
65	Expanded uncertainty quantification in inverse problems: Hierarchical Bayes and empirical Bayes. <i>Geophysics</i> , 2004 , 69, 1005-1016	3.1	174
64	Methane hydrate formation in turbidite sediments of northern Cascadia, IODP Expedition 311. <i>Earth and Planetary Science Letters</i> , 2008 , 271, 170-180	5.3	132
63	A simple method to estimate the fractal dimension of a self-affine series. <i>Geophysical Research Letters</i> , 1990 , 17, 1953-1956	4.9	129
62	Fault strain and seismic coupling on mid-ocean ridges. <i>Journal of Geophysical Research</i> , 1993 , 98, 17911-17920		122
61	Orbital tuning as an inverse problem: Chronology of the early Aptian oceanic anoxic event 1a (Selli Level) in the Cison APTICORE. <i>Paleoceanography</i> , 2010 , 25,		106
60	Gas hydrate occurrence from pore water chlorinity and downhole logs in a transect across the northern Cascadia margin (Integrated Ocean Drilling Program Expedition 311). <i>Journal of Geophysical Research</i> , 2008 , 113,		96
59	The length-scaling properties of topography. <i>Journal of Geophysical Research</i> , 1994 , 99, 13997-14012		93
58	Marine gas hydrates in thin sand layers that soak up microbial methane. <i>Earth and Planetary Science Letters</i> , 2010 , 292, 399-408	5.3	88
57	The regional tectonic fabric of the East Pacific Rise from 12°50'N to 15°10'N. <i>Journal of Geophysical Research</i> , 1991 , 96, 7995		86
56	Electrical anisotropy due to gas hydrate-filled fractures. <i>Geophysics</i> , 2010 , 75, F173-F185	3.1	74
55	M-sequence geomagnetic polarity time scale (MHTC12) that steadies global spreading rates and incorporates astrochronology constraints. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		60
54	Quantitative fault studies on the East Pacific Rise: A comparison of sonar imaging techniques. <i>Journal of Geophysical Research</i> , 1994 , 99, 15205		59
53	Mechanisms of Methane Hydrate Formation in Geological Systems. <i>Reviews of Geophysics</i> , 2019 , 57, 11463-11965	2.3	54
52	Local three-dimensional earthquake tomography by trans-dimensional Monte Carlo sampling. <i>Geophysical Journal International</i> , 2015 , 201, 1598-1617	2.6	51

51	Morphology of a Superfast Mid-Ocean Ridge crest and flanks: The East Pacific Rise, 7°N. <i>Marine Geophysical Researches</i> , 1993 , 15, 65-75	2.3	48
50	Proterozoic Milankovitch cycles and the history of the solar system. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 6363-6368	11.5	47
49	Modeling sulfate reduction in methane hydrate-bearing continental margin sediments: Does a sulfate-methane transition require anaerobic oxidation of methane?. <i>Geochemistry, Geophysics, Geosystems</i> , 2011 , 12, n/a-n/a	3.6	45
48	A characterization of the spectral density of residual ocean floor topography. <i>Geophysical Research Letters</i> , 1988 , 15, 1401-1404	4.9	45
47	Short migration of methane into a gas hydrate-bearing sand layer at Walker Ridge, Gulf of Mexico. <i>Geochemistry, Geophysics, Geosystems</i> , 2013 , 14, 283-291	3.6	42
46	Two ways to quantify uncertainty in geophysical inverse problems. <i>Geophysics</i> , 2006 , 71, W15-W27	3.1	42
45	A Bayesian criterion for simplicity in inverse problem parametrization. <i>Geophysical Journal International</i> , 2000 , 140, 267-285	2.6	41
44	Receiver function inversion by trans-dimensional Monte Carlo sampling. <i>Geophysical Journal International</i> , 2010 ,	2.6	40
43	Abyssal Hill Segmentation: Quantitative analysis of the East Pacific Rise flanks 7°N. <i>Journal of Geophysical Research</i> , 1993 , 98, 13851-13862		40
42	. <i>IEEE Journal of Oceanic Engineering</i> , 1990 , 15, 14-23	3.3	40
41	Natural gas hydrates occupying fractures: A focus on non-vent sites on the Indian continental margin and the northern Gulf of Mexico. <i>Marine and Petroleum Geology</i> , 2014 , 58, 278-291	4.7	39
40	Testing short-range migration of microbial methane as a hydrate formation mechanism: Results from Andaman Sea and Kumano Basin drill sites and global implications. <i>Earth and Planetary Science Letters</i> , 2015 , 422, 105-114	5.3	37
39	Abyssal hill topography as an indicator of episodicity in crustal accretion and deformation. <i>Earth and Planetary Science Letters</i> , 1990 , 99, 154-169	5.3	32
38	Gas hydrate reservoirs and gas migration mechanisms in the Terrebonne Basin, Gulf of Mexico. <i>Marine and Petroleum Geology</i> , 2017 , 86, 1357-1373	4.7	30
37	Permeability and porosity of hydrate-bearing sediments in the northern Gulf of Mexico. <i>Marine and Petroleum Geology</i> , 2015 , 68, 551-564	4.7	30
36	Systematic along-axis tidal triggering of microearthquakes observed at 9°N East Pacific Rise. <i>Geophysical Research Letters</i> , 2009 , 36,	4.9	30
35	Monte-Carlo Bayesian look-ahead inversion of walkaway vertical seismic profiles. <i>Geophysical Prospecting</i> , 2005 , 53, 689-703	1.9	30
34	Normal faulting and the topographic roughness of mid-ocean ridge flanks. <i>Journal of Geophysical Research</i> , 1993 , 98, 17921-17939		30

33	Testing linear models of sea-floor topography. <i>Pure and Applied Geophysics</i> , 1989 , 131, 139-155	2.2	28
32	A stochastic model for the creation of abyssal hill topography at a slow spreading center. <i>Journal of Geophysical Research</i> , 1989 , 94, 1665		27
31	Wilkes transform system and "nannoplate". <i>Geology</i> , 1993 , 21, 623	5	26
30	Short-range, overpressure-driven methane migration in coarse-grained gas hydrate reservoirs. <i>Geophysical Research Letters</i> , 2016 , 43, 9500-9508	4.9	25
29	On the power law size distribution of turbidite beds. <i>Basin Research</i> , 1997 , 9, 263-274	3.2	24
28	A quantitative study of the axial topography of the Mid-Atlantic Ridge. <i>Journal of Geophysical Research</i> , 1990 , 95, 2645		23
27	A Monte Carlo method to quantify uncertainty in the inversion of zero-offset VSP data 2000 ,		23
26	Bayesian inversion of DC electrical measurements with uncertainties for reservoir monitoring. <i>Inverse Problems</i> , 2000 , 16, 1343-1356	2.3	21
25	Assessing uncertainties in high-resolution, multifrequency receiver-function inversion: A comparison with borehole data. <i>Geophysics</i> , 2018 , 83, KS11-KS22	3.1	17
24	The effect of temperature on organic carbon degradation in marine sediments. <i>Scientific Reports</i> , 2015 , 5, 17861	4.9	17
23	A dual-grid nonlinear inversion technique with applications to the interpretation of dc resistivity data. <i>Geophysics</i> , 2000 , 65, 1733-1745	3.1	17
22	Morphology of the Ebro fan valleys from SeaMARC and sea beam profiles. <i>Geo-Marine Letters</i> , 1985 , 5, 141-148	1.9	17
21	Morphology and downslope sediment displacement in a deep-sea valley, the Valencia Valley (Northwestern Mediterranean). <i>Geo-Marine Letters</i> , 1985 , 5, 149-156	1.9	17
20	. <i>IEEE Journal of Oceanic Engineering</i> , 1989 , 14, 348-359	3.3	16
19	. <i>Proceedings of the Integrated Ocean Drilling Program Integrated Ocean Drilling Program</i> ,		16
18	Expedition 344 summary. <i>Proceedings of the Integrated Ocean Drilling Program Integrated Ocean Drilling Program</i> ,		16
17	Linking basin-scale and pore-scale gas hydrate distribution patterns in diffusion-dominated marine hydrate systems. <i>Geochemistry, Geophysics, Geosystems</i> , 2017 , 18, 653-675	3.6	15
16	Burial-driven methane recycling in marine gas hydrate systems. <i>Earth and Planetary Science Letters</i> , 2018 , 499, 197-204	5.3	14

15	Gas hydrate transect across Northern Cascadia Margin. <i>Eos</i> , 2006 , 87, 325	1.5	13
14	16. Evaluation of Natural Gas-Hydrate Systems Using Borehole Logs 2010 , 239-261		13
13	Fractals and Ocean Floor Topography: A Review and a Model 1995 , 107-130		12
12	Horizontal principal stress orientation in the Costa Rica Seismogenesis Project (CRISP) transect from borehole breakouts. <i>Geochemistry, Geophysics, Geosystems</i> , 2016 , 17, 65-77	3.6	11
11	Pacific trench motions controlled by the asymmetric plate configuration. <i>Tectonics</i> , 2008 , 27, n/a-n/a	4.3	9
10	Factors Controlling Short-Range Methane Migration of Gas Hydrate Accumulations in Thin Coarse-Grained Layers. <i>Geochemistry, Geophysics, Geosystems</i> , 2019 , 20, 3985-4000	3.6	7
9	A Late Cretaceous-Eocene Geomagnetic Polarity Timescale (MQSD20) That Steadies Spreading Rates on Multiple Mid-Ocean Ridge Flanks. <i>Journal of Geophysical Research: Solid Earth</i> , 2020 , 125, e2020JB020034	3.6	6
8	Glacial Cycles Influence Marine Methane Hydrate Formation. <i>Geophysical Research Letters</i> , 2018 , 45, 7247-732	4.3	5
7	Data report: Monte Carlo correlation of sediment records from core and downhole log measurements at Sites U1337 and U1338 (IODP Expedition 321). <i>Proceedings of the Integrated Ocean Drilling Program Integrated Ocean Drilling Program</i> ,		5
6	Orbital forcing of carbonate versus siliceous productivity in the late Albian to Cenomanian (Umbria-Marche Basin, central Italy). <i>Newsletters on Stratigraphy</i> , 2019 , 52, 197-220	2.9	4
5	Fast Model Updates Using Wavelets. <i>Multiscale Modeling and Simulation</i> , 2005 , 3, 106-130	1.8	4
4	Evidence for a Northern Hemispheric trigger of the 100,000-y glacial cyclicity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	4
3	Horizontal compressive stress regime on the northern Cascadia margin inferred from borehole breakouts. <i>Geochemistry, Geophysics, Geosystems</i> , 2016 , 17, 3529-3545	3.6	2
2	Cominco American well: Implications for the reconstruction of the Sevier orogen and basin and range extension in west-central Utah. <i>Numerische Mathematik</i> , 2012 , 312, 508-533	5.3	2
1	Reply [to Comment on A quantitative study of the axial topography of the Mid-Atlantic Ridge by Alberto Malinverno] <i>Journal of Geophysical Research</i> , 1991 , 96, 2049		2