

Valenti Sallares

List of Publications by Year in descending order

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82
papers

2,551
citations

172457

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104
docs citations

104
times ranked

2454
citing authors

#	ARTICLE	IF	CITATIONS
1	Toward a Practical Appraisal for Waveform Tomography of Band- and Offset-Limited Marine Seismic Data. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2022, 60, 1-14.	6.3	1
2	Downward continuation of marine seismic reflection data: an undervalued tool to improve velocity models. <i>Geophysical Journal International</i> , 2022, 230, 831-848.	2.4	3
3	The continent-to-ocean transition in the Iberia Abyssal Plain. <i>Geology</i> , 2022, 50, 615-619.	4.4	10
4	The Horseshoe Abyssal plain Thrust could be the source of the 1755 Lisbon earthquake and tsunami. <i>Communications Earth & Environment</i> , 2021, 2, .	6.8	6
5	The Structure of the Continentâ€œOcean Transition in the Gulf of Lions From Joint Refraction and Reflection Travelâ€œTime Tomography. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2021JB021711.	3.4	7
6	Large slip, long duration, and moderate shaking of the Nicaragua 1992 tsunami earthquake caused by low near-trench rock rigidity. <i>Science Advances</i> , 2021, 7, .	10.3	11
7	The Rift and Continentâ€œOcean Transition Structure Under the Tagus Abyssal Plain West of the Iberia. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2021JB022629.	3.4	6
8	The Influence of Depthâ€œVarying Elastic Properties of the Upper Plate on Megathrust Earthquake Rupture Dynamics and Tsunamiogenesis. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2021JB022328.	3.4	10
9	Recent inversion of the Tyrrhenian Basin. <i>Geology</i> , 2020, 48, 123-127.	4.4	25
10	The structure of Mediterranean arcs: New insights from the Calabrian Arc subduction system. <i>Earth and Planetary Science Letters</i> , 2020, 548, 116480.	4.4	13
11	The Alpine Orogeny in the West and Southwest Iberia Margins. <i>Regional Geology Reviews</i> , 2019, , 487-505.	1.2	13
12	Anisotropic P-wave travel-time tomography implementing Thomsen's weak approximation in TOMO3D. <i>Solid Earth</i> , 2019, 10, 1857-1876.	2.8	3
13	Upper-plate rigidity determines depth-varying rupture behaviour of megathrust earthquakes. <i>Nature</i> , 2019, 576, 96-101.	27.8	65
14	Influence of Incoming Plate Relief on Overriding Plate Deformation and Earthquake Nucleation: Cocos Ridge Subduction (Costa Rica). <i>Tectonics</i> , 2019, 38, 4360-4377.	2.8	19
15	Full-waveform inversion of short-offset, band-limited seismic data in the Alboran Basin (SE Iberia). <i>Solid Earth</i> , 2019, 10, 1833-1855.	2.8	11
16	Waveform-Preserving Processing Flow of Multichannel Seismic Reflection Data for Adjoint-State Full-Waveform Inversion of Ocean Thermohaline Structure. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2018, 56, 1615-1625.	6.3	17
17	Appraisal of Instantaneous Phase-Based Functions in Adjoint Waveform Inversion. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2018, 56, 5185-5197.	6.3	11
18	Spatial variations of magmatic crustal accretion during the opening of the Tyrrhenian backâ€œarc from wideâ€œangle seismic velocity models and seismic reflection images. <i>Basin Research</i> , 2018, 30, 124-141.	2.7	13

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19	High-resolution diapycnal mixing map of the Alboran Sea thermocline from seismic reflection images. <i>Ocean Science</i> , 2018, 14, 403-415.	3.4	11
20	Active tectonics of the Calabrian subduction revealed by new multi-beam bathymetric data and high-resolution seismic profiles in the Ionian Sea (Central Mediterranean). <i>Earth and Planetary Science Letters</i> , 2017, 461, 61-72.	4.4	73
21	Seismic Oceanography in the Tyrrhenian Sea: Thermohaline Staircases, Eddies, and Internal Waves. <i>Journal of Geophysical Research: Oceans</i> , 2017, 122, 8503-8523.	2.6	22
22	Mantle exhumation and sequence of magmatic events in the Magnaghiâ€“Vavilov Basin (Central) Tj ETQqO 0 0 rgBT /Overlock 10 Tf 50 2016, 689, 133-142.	2.2	43
23	Fineâ€“scale thermohaline ocean structure retrieved with 2â€“D prestack fullâ€“waveform inversion of multichannel seismic data: Application to the Gulf of Cadiz (SW Iberia). <i>Journal of Geophysical Research: Oceans</i> , 2016, 121, 5452-5469.	2.6	19
24	Crustal deformation dynamics and stress evolution during seamount subduction: Highâ€“resolution 3â€“D numerical modeling. <i>Journal of Geophysical Research: Solid Earth</i> , 2016, 121, 6880-6902.	3.4	68
25	Characterization of the submesoscale energy cascade in the Alboran Sea thermocline from spectral analysis of highâ€“resolution MCS data. <i>Geophysical Research Letters</i> , 2016, 43, 6461-6468.	4.0	22
26	Synthetic Modeling for an Acoustic Exploration System for Physical Oceanography. <i>Journal of Atmospheric and Oceanic Technology</i> , 2016, 33, 191-200.	1.3	2
27	Seismic monitoring of the drilling of an exploratory well off the east coast of the canary islands. , 2016, , .		0
28	The complex 3-D transition from continental crust to backarc magmatism and exhumed mantle in the Central Tyrrhenian basin. <i>Geophysical Journal International</i> , 2015, 203, 63-78.	2.4	44
29	TOMO3D: 3-D joint refraction and reflection traveltime tomography parallel code for active-source seismic dataâ€“synthetic test. <i>Geophysical Journal International</i> , 2015, 203, 158-174.	2.4	20
30	Comparative study of objective functions to overcome noise and bandwidth limitations in full waveform inversion. <i>Geophysical Journal International</i> , 2015, 203, 632-645.	2.4	15
31	Data-driven Layer-stripping Strategy for 3-D Joint Refraction and Reflection Travel-time Tomography. , 2015, , .		0
32	Seismic structure of the Central Tyrrhenian basin: Geophysical constraints on the nature of the main crustal domains. <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 52-70.	3.4	62
33	Scale- and parameter-adaptive model-based gradient pre-conditioner for elastic full-waveform inversion. <i>Geophysical Journal International</i> , 2014, 198, 1130-1142.	2.4	15
34	Historical and pre-historical tsunamis in the Mediterranean and its connected seas: Geological signatures, generation mechanisms and coastal impacts. <i>Marine Geology</i> , 2014, 354, 81-109.	2.1	128
35	Seismic and gravity constraints on the nature of the basement in the Africaâ€“Eurasia plate boundary: New insights for the geodynamic evolution of the SW Iberian margin. <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 127-149.	3.4	61
36	Origin of water layer multiple phases with anomalously high amplitude in near-seafloor wide-angle seismic recordings. <i>Geophysical Journal International</i> , 2014, 196, 243-252.	2.4	7

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37	Crustal thinning in the northern Tyrrhenian Rift: Insights from multichannel and wide-angle seismic data across the basin. <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 1655-1677.	3.4	19
38	Recovery of temperature, salinity, and potential density from ocean reflectivity. <i>Journal of Geophysical Research: Oceans</i> , 2014, 119, 3171-3184.	2.6	38
39	Comparison of Objective Functionals in Seismic Full Waveform Inversion. , 2014, , .		0
40	Seismic evidence of exhumed mantle rock basement at the Gorringe Bank and the adjacent Horseshoe and Tagus abyssal plains (SW Iberia). <i>Earth and Planetary Science Letters</i> , 2013, 365, 120-131.	4.4	71
41	Direct temperature and salinity acoustic full waveform inversion. <i>Geophysical Research Letters</i> , 2013, 40, 4344-4348.	4.0	23
42	Scale- and parameter-adaptive power model-based gradient preconditioner for multi-shooting elastic full-waveform inversion. , 2013, , .		0
43	Early-stage rifting of the northern Tyrrhenian Sea Basin: Results from a combined wide-angle and multichannel seismic study. <i>Geochemistry, Geophysics, Geosystems</i> , 2013, 14, 3032-3052.	2.5	41
44	Active deformation in old oceanic lithosphere and significance for earthquake hazard: Seismic imaging of the Coral Patch Ridge area and neighboring abyssal plains (SW Iberian Margin). <i>Geochemistry, Geophysics, Geosystems</i> , 2013, 14, 2206-2231.	2.5	42
45	Overriding plate structure of the Nicaragua convergent margin: Relationship to the seismogenic zone of the 1992 tsunami earthquake. <i>Geochemistry, Geophysics, Geosystems</i> , 2013, 14, 3436-3461.	2.5	29
46	Inversion of density in the ocean from seismic reflection data. <i>Proceedings of Meetings on Acoustics</i> , 2013, , .	0.3	1
47	Characterization of thermohaline staircases in the Tyrrhenian Sea using stochastic heterogeneity mapping. <i>Proceedings of Meetings on Acoustics</i> , 2013, , .	0.3	0
48	The Gibraltar subduction: A decade of new geophysical data. <i>Tectonophysics</i> , 2012, 574-575, 72-91.	2.2	109
49	New insights on the interseismic active deformation along the North Ecuadorian-South Colombian (NESC) margin. <i>Tectonics</i> , 2011, 30, .	2.8	13
50	Seismic evidence for the presence of Jurassic oceanic crust in the central Gulf of Cadiz (SW Iberian) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	4.4	106
51	Application of acoustic full waveform inversion to retrieve high-resolution temperature and salinity profiles from synthetic seismic data. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	18
52	The Potential of Discontinuous Galerkin Methods for Full Waveform Tomography. , 2010, , .		1
53	Stochastic Heterogeneity Mapping around a Mediterranean salt lens. <i>Ocean Science</i> , 2010, 6, 423-429.	3.4	9
54	Synthetic modelling of acoustical propagation applied to seismic oceanography experiments. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	8

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55	Focal mechanisms for subcrustal earthquakes in the Gulf of Cadiz from a dense OBS deployment. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	75
56	Seismic imaging of staircase layers below the Mediterranean Undercurrent. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2010, 57, 1345-1353.	1.4	28
57	Appraisal of Joint Refraction and Reflection Travel-time Tomography in the Context of Weathering Correction. , 2010, , .		0
58	Seismic reflection along the path of the Mediterranean Undercurrent. <i>Continental Shelf Research</i> , 2009, 29, 1848-1860.	1.8	31
59	Relative contribution of temperature and salinity to ocean acoustic reflectivity. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	68
60	Effect of seismic source bandwidth on reflection sections to image water structure. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	26
61	Modelling Seismic Oceanography Experiments by Using First- and Second-Order Complex Frequency Shifted Perfectly Matched Layers. <i>Acta Acustica United With Acustica</i> , 2009, 95, 1104-1111.	0.8	8
62	Imaging and inversion " Introduction. <i>Geophysics</i> , 2009, 74, WCA1-WCA4.	2.6	7
63	A Low-Power Datalogger Based on CompactFlash Memory for Ocean Bottom Seismometers. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2008, 57, 2297-2303.	4.7	15
64	A new multi-platform modular software tool for wide-angle reflection/refraction seismic data processing and representation (WASPAR). <i>Computers and Geosciences</i> , 2008, 34, 456-463.	4.2	3
65	Nonlinear variations of the physical properties along the southern Ecuador subduction channel: Results from depth-migrated seismic data. <i>Earth and Planetary Science Letters</i> , 2008, 267, 453-467.	4.4	70
66	Imaging meddy finestructure using multichannel seismic reflection data. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	93
67	Design, Characterization and Calibration of a Short-Period Ocean Bottom Seismometer (OBS). , 2008, , .		2
68	Ocean Bottom Seismometer (OBS): An instrument for marine seismic data acquisition. , 2008, , .		0
69	Geophysical characterization of mantle melting anomalies: A crustal view. , 2007, , 507-524.		4
70	Fields of multi-kilometer scale sub-circular depressions in the Carnegie Ridge sedimentary blanket: Effect of underwater carbonate dissolution?. <i>Marine Geology</i> , 2005, 216, 205-219.	2.1	32
71	Seismic structure of the Carnegie ridge and the nature of the Galápagos hotspot. <i>Geophysical Journal International</i> , 2005, 161, 763-788.	2.4	82
72	Low power and easy to use ocean bottom seismometer (OBS) for long period surveys. , 2005, , .		0

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73	Structure and tectonics of the erosional convergent margin off Antofagasta, north Chile (23°30'S). Journal of Geophysical Research, 2005, 110, .	3.3	78
74	Geophysical evidence for hydration of the crust and mantle of the Nazca plate during bending at the north Chile trench. Geology, 2004, 32, 549.	4.4	162
75	Seismic structure of Cocos and Malpelo Volcanic Ridges and implications for hot spot-ridge interaction. Journal of Geophysical Research, 2003, 108, .	3.3	99
76	Crustal thickness constraints on the geodynamic evolution of the Galapagos Volcanic Province. Earth and Planetary Science Letters, 2003, 214, 545-559.	4.4	73
77	Lithospheric structure of the Costa Rican Isthmus: Effects of subduction zone magmatism on an oceanic plateau. Journal of Geophysical Research, 2001, 106, 621-643.	3.3	70
78	Seismic tomography with local earthquakes in Costa Rica. Tectonophysics, 2000, 329, 61-78.	2.2	32
79	Seismic velocity structure across the middle American landbridge in northern Costa Rica. Journal of Geodynamics, 1999, 27, 327-344.	1.6	30
80	A multidisciplinary geophysical study in the Betic chain (southern Iberia Peninsula). Tectonophysics, 1998, 288, 137-152.	2.2	38
81	Local earthquakes seismic tomography in the Betic Cordillera (southern Spain). Earth and Planetary Science Letters, 1998, 160, 225-239.	4.4	18
82	Automatic camera calibration based on robot calibration. , 0, , .		11