Sergio Ruiz

List of Publications by Year in descending order

67 papers	1,715 citations	304368 22 h-index	315357 38 g-index
70 all docs	70 docs citations	70 times ranked	1435 citing authors

#	Article	IF	Citations
1	Alongâ€Dip Segmentation of the Slip Behavior and Rheology of the CopiapÃ³ Ridge Subducted in Northâ€Central Chile. Geophysical Research Letters, 2022, 49, .	1.5	5
2	Complex Rupture of the 2015 MwÂ8.3 Illapel Earthquake and Prehistoric Events in the Central Chile Tsunami Gap. Seismological Research Letters, 2022, 93, 1479-1496.	0.8	4
3	Volcanic Origin of a Longâ€Lived Swarm in the Central Bransfield Basin, Antarctica. Geophysical Research Letters, 2022, 49, .	1.5	5
4	Northern Chile intermediate-depth earthquakes controlled by plate hydration. Geophysical Journal International, 2021, 226, 78-90.	1.0	16
5	Shear wave velocity model of the Abanico Formation underlying the Santiago City metropolitan area, Chile, using ambient seismic noise tomography. Geophysical Journal International, 2021, 225, 1222-1235.	1.0	5
6	Seismicity in the upper plate of the Northern Chilean offshore forearc: Evidence of splay fault south of the Mejillones Peninsula. Tectonophysics, 2021, 800, 228706.	0.9	8
7	Spectrum of strong-motion records for large magnitude Chilean earthquakes. Geophysical Journal International, 2021, 226, 1045-1057.	1.0	0
8	Seismic noise variability as an indicator of urban mobility during the COVID-19 pandemic in the Santiago metropolitan region, Chile. Solid Earth, 2021, 12, 1075-1085.	1.2	4
9	Dynamic rupture of subduction earthquakes located near the trench. Earth and Planetary Science Letters, 2021, 562, 116842.	1.8	4
10	Early Stage and Main Ruptures of the 2015 Mw8.3 Illapel, Chile, Megathrust Earthquake: Kinematic Elliptical Inversions and Dynamic Rupture Simulations. Journal of Geophysical Research: Solid Earth, 2021, 126, e2020JB021207.	1.4	4
11	Interplay of seismic and a-seismic deformation during the 2020 sequence of Atacama, Chile. Earth and Planetary Science Letters, 2021, 570, 117081.	1.8	10
12	Hybrid broadband strong-motion simulation to investigate the near-source characteristics of the M6.5, 30 October 2016 Norcia, Italy earthquake. Soil Dynamics and Earthquake Engineering, 2021, 149, 106866.	1.9	8
13	Subduction zone fluids and arc magmas conducted by lithospheric deformed regions beneath the central Andes. Scientific Reports, 2021, 11, 23078.	1.6	16
14	Earthquakes Felt in the Juan Fernandez Islands: Where Are They Coming from?. Seismological Research Letters, 2020, 91, 262-271.	0.8	4
15	Active Faulting, Submarine Surface Rupture, and Seismic Migration Along the LiquiÃ±eâ€Ofqui Fault System, Patagonian Andes. Journal of Geophysical Research: Solid Earth, 2020, 125, e2020JB019946.	1.4	8
16	Seismicity clusters in Central Chile: investigating the role of repeating earthquakes and swarms in a subduction region. Geophysical Journal International, 2020, 224, 2028-2043.	1.0	8
17	Seismicity along the Magallanes-Fagnano fault system. Journal of South American Earth Sciences, 2020, 103, 102799.	0.6	3
18	The 21 May 1960 MwÂ8.1 ConcepciÃ³n Earthquake: A Deep Megathrust Foreshock That Started the 1960 Central-South Chilean Seismic Sequence. Seismological Research Letters, 2020, 91, 1617-1627.	0.8	7

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19	New Opportunities to Study Earthquake Precursors. Seismological Research Letters, 2020, 91, 2444-2447.	0.8	27
20	Post-seismic response of the outer accretionary prism after the 2010 Maule earthquake, Chile. , 2020, 16, 13-32.		6
21	Shallow Ambientâ€Noise 3D Tomography in the ConcepciÃ³n Basin, Chile: Implications for Lowâ€Frequency Ground Motions. Bulletin of the Seismological Society of America, 2019, 109, 75-86.	1.1	11
22	The January 2019 (MwÂ6.7) Coquimbo Earthquake: Insights from a Seismic Sequence within the Nazca Plate. Seismological Research Letters, 2019, , .	0.8	6
23	Probing the Northern Chile Megathrust With Seismicity: The 2014 M8.1 Iquique Earthquake Sequence. Journal of Geophysical Research: Solid Earth, 2019, 124, 12935-12954.	1.4	23
24	Shallow Nonvolcanic Tremor Activity and Potential Repeating Earthquakes in the Chile Triple Junction: Seismic Evidence of the Subduction of the Active Nazcaâ€“Antarctic Spreading Center. Seismological Research Letters, 2019, , .	0.8	4
25	The Crustal Seismicity of the Western Andean Thrust (Central Chile, 33Â°â€“34Â°ÂS): Implications for Regional Tectonics and Seismic Hazard in the Santiago Area. Bulletin of the Seismological Society of America, 2019, 109, 1985-1999.	1.1	21
26	Damage assessment of the 2015 Mw 8.3 Illapel earthquake in the North-Central Chile. Natural Hazards, 2019, 96, 269-283.	1.6	9
27	Near-Field Spectra of Large Earthquakes. Pure and Applied Geophysics, 2019, 176, 983-1001.	0.8	18
28	Controls on the T Phase Energy Fluxes Recorded on Juan Fernandez Island by Continental Seismic Wave Paths and Nazca Bathymetry. Geophysical Research Letters, 2018, 45, 2610-2617.	1.5	7
29	Historical and recent large megathrust earthquakes in Chile. Tectonophysics, 2018, 733, 37-56.	0.9	153
30	Geophysical Characterization of the Chilean Seismological Stations: First Results. Seismological Research Letters, 2018, 89, 519-525.	0.8	24
31	Focal Mechanism, Magnitude, and Finiteâ€Fault Rapid Estimation Using the Elliptical Patch Method in Chile. Seismological Research Letters, 2018, 89, 503-511.	0.8	4
32	The Impact of a Buried Highâ€Velocity Layer in the Seismic Site Amplification of the City of Llolleo, Chile. Bulletin of the Seismological Society of America, 2018, 108, 2199-2208.	1.1	1
33	Empirical Site Classification of CSN Network Using Strongâ€Motion Records. Seismological Research Letters, 2018, 89, 512-518.	0.8	15
34	Stochastic Strongâ€Motion Simulation in Borehole and on Surface for the 2011 MwÂ9.0 Tohokuâ€Oki Megathrust Earthquake Considering P, SV, and SH Amplification Transfer Functions. Bulletin of the Seismological Society of America, 2018, 108, 2333-2346.	1.1	7
35	Fluids Along the Plate Interface Influencing the Frictional Regime of the Chilean Subduction Zone, Northern Chile. Geophysical Research Letters, 2018, 45, 10,378.	1.5	17
36	Abrupt increase in the coastal uplift and earthquake rate since â¼40 ka at the northern Chile seismic gap in the Central Andes. Earth and Planetary Science Letters, 2018, 502, 32-45.	1.8	20

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37	How Fast Can We Reliably Estimate the Magnitude of Subduction Earthquakes?. Geophysical Research Letters, 2018, 45, 9633-9641.	1.5	12
38	Heterogeneous structure of the Northern Chile marine forearc and its implications for megathrust earthquakes. Geophysical Journal International, 2018, 215, 1080-1097.	1.0	30
39	Reply to the comment on â€œHistorical and recent large megathrust earthquakes in Chileâ€• Tectonophysics, 2018, 745, 457-458.	0.9	2
40	The M_w8.3 Illapel earthquake (Chile): Preseismic and postseismic activity associated with hydrated slab structures. Geology, 2017, 45, 247-250.	2.0	44
41	Reawakening of large earthquakes in south central Chile: The 2016 M_w 7.6 ChiloÃ© event. Geophysical Research Letters, 2017, 44, 6633-6640.	1.5	30
42	Dynamic inversion of the 2015 Jujuy earthquake and similarity with other intraslab events. Geophysical Journal International, 2017, 209, 866-875.	1.0	17
43	Nucleation Phase and Dynamic Inversion of the M_w 6.9 ValparaÃso 2017 Earthquake in Central Chile. Geophysical Research Letters, 2017, 44, 10,290.	1.5	65
44	The deep Peru 2015 doublet earthquakes. Earth and Planetary Science Letters, 2017, 478, 102-109.	1.8	9
45	Ground motion prediction equations for the Chilean subduction zone. Bulletin of Earthquake Engineering, 2017, 15, 1853-1880.	2.3	57
46	Estudio de efectos de sitio en la RegiÃ³n de Coquimbo durante el terremoto de Illapel Mw 8.3 de 2015. Obras Y Proyectos, 2017, , 20-28.	0.2	3
47	Diversity of the 2014 Iquiqueâ€™s foreshocks and aftershocks: clues about the complex rupture process of a Mw 8.1 earthquake. Journal of Seismology, 2016, 20, 1059-1073.	0.6	33
48	Earthquakes initiation and thermal shear instability in the Hindu Kush intermediate depth nest. Geophysical Research Letters, 2016, 43, 1537-1542.	1.5	30
49	Stochastic Generation of Accelerograms for Subduction Earthquakes. Bulletin of the Seismological Society of America, 2016, 106, 2511-2520.	1.1	13
50	The Seismic Sequence of the 16 September 2015M_wÂ8.3 Illapel, Chile, Earthquake. Seismological Research Letters, 2016, 87, 789-799.	0.8	71
51	Earthquake dynamics on circular faults: a review 1970â€“2015. Journal of Seismology, 2016, 20, 1235-1252.	0.6	35
52	Deep characterization of the Santiago Basin using HVSR and cross-correlation of ambient seismic noise. Engineering Geology, 2016, 201, 57-66.	2.9	51
53	Density-depth model of the continental wedge at the maximum slip segment of the Maule Mw8.8 megathrust earthquake. Earth and Planetary Science Letters, 2015, 409, 265-277.	1.8	30
54	Intense foreshocks and a slow slip event preceded the 2014 Iquique M _w 8.1 earthquake. Science, 2014, 345, 1165-1169.	6.0	328

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55	The ConstituciÃ³n earthquake of 25 March 2012: A large aftershock of the Maule earthquake near the bottom of the seismogenic zone. Earth and Planetary Science Letters, 2013, 377-378, 347-357.	1.8	19
56	Kinematic and Dynamic Inversion of the 2008 Northern Iwate Earthquake. Bulletin of the Seismological Society of America, 2013, 103, 694-708.	1.1	28
57	Microtremors' HVSR and its correlation with surface geology and damage observed after the 2010 Maule earthquake (Mw 8.8) at Talca and CuricÃ³, Central Chile. Engineering Geology, 2013, 161, 26-33.	2.9	43
58	Short-Period Rupture Process of the 2010 M_w8.8 Maule Earthquake in Chile. Earthquake Spectra, 2012, 28, 1-18.	1.6	31
59	Abrupt change in the dip of the subducting plate beneath north Chile. Nature Geoscience, 2012, 5, 342-345.	5.4	66
60	Determination of the friction law parameters of the Mw 6.7 Michilla earthquake in northern Chile by dynamic inversion. Geophysical Research Letters, 2011, 38, .	1.5	32
61	Magnitude Scaling of Early-Warning Parameters for the Mw 7.8 Tocopilla, Chile, Earthquake and Its Aftershocks. Bulletin of the Seismological Society of America, 2011, 101, 447-463.	1.1	25
62	Identification of High Frequency Pulses from Earthquake Asperities Along Chilean Subduction Zone Using Strong Motion. Pure and Applied Geophysics, 2011, 168, 125-139.	0.8	24
63	Reevaluacion del peligro sismico probabilistico en Chile central.. Andean Geology, 2010, 37, .	0.2	16
64	Free vibration of soils during large earthquakes. Soil Dynamics and Earthquake Engineering, 2009, 29, 1-16.	1.9	17
65	The Role of Site Conditions on the Structural Damage in the City of Valdivia during the 22 May 1960 MwÂ9.5 Megathrust Chile Earthquake. Seismological Research Letters, 0, , .	0.8	0
66	Preliminary re-evaluation of probabilistic seismic hazard assessment in Chile: from Arica to Taitao Peninsula. Advances in Geosciences, 0, 22, 147-153.	12.0	21
67	Automated earthquake detection and local travel time tomography in the Southâ€Central Andes (32â€35Â°S): Implications for regional tectonics. Journal of Geophysical Research: Solid Earth, 0, , .	1.4	4