

Sergio Ruiz

List of Publications by Year in descending order

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Version: 2024-02-01

67
papers

1,715
citations

304602

22
h-index

315616

38
g-index

70
all docs

70
docs citations

70
times ranked

1435
citing authors

#	ARTICLE	IF	CITATIONS
1	Intense foreshocks and a slow slip event preceded the 2014 Iquique M_w 8.1 earthquake. <i>Science</i> , 2014, 345, 1165-1169.	6.0	328
2	Historical and recent large megathrust earthquakes in Chile. <i>Tectonophysics</i> , 2018, 733, 37-56.	0.9	153
3	The Seismic Sequence of the 16 September 2015 M_w 8.3 Illapel, Chile, Earthquake. <i>Seismological Research Letters</i> , 2016, 87, 789-799.	0.8	71
4	Abrupt change in the dip of the subducting plate beneath north Chile. <i>Nature Geoscience</i> , 2012, 5, 342-345.	5.4	66
5	Nucleation Phase and Dynamic Inversion of the M_w 6.9 Valparaíso 2017 Earthquake in Central Chile. <i>Geophysical Research Letters</i> , 2017, 44, 10,290.	1.5	65
6	Ground motion prediction equations for the Chilean subduction zone. <i>Bulletin of Earthquake Engineering</i> , 2017, 15, 1853-1880.	2.3	57
7	Deep characterization of the Santiago Basin using HVSr and cross-correlation of ambient seismic noise. <i>Engineering Geology</i> , 2016, 201, 57-66.	2.9	51
8	The M_w 8.3 Illapel earthquake (Chile): Preseismic and postseismic activity associated with hydrated slab structures. <i>Geology</i> , 2017, 45, 247-250.	2.0	44
9	Microtremors' HVSr and its correlation with surface geology and damage observed after the 2010 Maule earthquake (M_w 8.8) at Talca and Curicó, Central Chile. <i>Engineering Geology</i> , 2013, 161, 26-33.	2.9	43
10	Earthquake dynamics on circular faults: a review 1970-2015. <i>Journal of Seismology</i> , 2016, 20, 1235-1252.	0.6	35
11	Diversity of the 2014 Iquique's foreshocks and aftershocks: clues about the complex rupture process of a M_w 8.1 earthquake. <i>Journal of Seismology</i> , 2016, 20, 1059-1073.	0.6	33
12	Determination of the friction law parameters of the M_w 6.7 Michilla earthquake in northern Chile by dynamic inversion. <i>Geophysical Research Letters</i> , 2011, 38, .	1.5	32
13	Short-Period Rupture Process of the 2010 M_w 8.8 Maule Earthquake in Chile. <i>Earthquake Spectra</i> , 2012, 28, 1-18.	1.6	31
14	Density-depth model of the continental wedge at the maximum slip segment of the Maule M_w 8.8 megathrust earthquake. <i>Earth and Planetary Science Letters</i> , 2015, 409, 265-277.	1.8	30
15	Earthquakes initiation and thermal shear instability in the Hindu Kush intermediate depth nest. <i>Geophysical Research Letters</i> , 2016, 43, 1537-1542.	1.5	30
16	Reawakening of large earthquakes in south central Chile: The 2016 M_w 7.6 Chiloé event. <i>Geophysical Research Letters</i> , 2017, 44, 6633-6640.	1.5	30
17	Heterogeneous structure of the Northern Chile marine forearc and its implications for megathrust earthquakes. <i>Geophysical Journal International</i> , 2018, 215, 1080-1097.	1.0	30
18	Kinematic and Dynamic Inversion of the 2008 Northern Iwate Earthquake. <i>Bulletin of the Seismological Society of America</i> , 2013, 103, 694-708.	1.1	28

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19	New Opportunities to Study Earthquake Precursors. <i>Seismological Research Letters</i> , 2020, 91, 2444-2447.	0.8	27
20	Magnitude Scaling of Early-Warning Parameters for the Mw 7.8 Tocopilla, Chile, Earthquake and Its Aftershocks. <i>Bulletin of the Seismological Society of America</i> , 2011, 101, 447-463.	1.1	25
21	Identification of High Frequency Pulses from Earthquake Asperities Along Chilean Subduction Zone Using Strong Motion. <i>Pure and Applied Geophysics</i> , 2011, 168, 125-139.	0.8	24
22	Geophysical Characterization of the Chilean Seismological Stations: First Results. <i>Seismological Research Letters</i> , 2018, 89, 519-525.	0.8	24
23	Probing the Northern Chile Megathrust With Seismicity: The 2014 M8.1 Iquique Earthquake Sequence. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 12935-12954.	1.4	23
24	The Crustal Seismicity of the Western Andean Thrust (Central Chile, 33°-34°S): Implications for Regional Tectonics and Seismic Hazard in the Santiago Area. <i>Bulletin of the Seismological Society of America</i> , 2019, 109, 1985-1999.	1.1	21
25	Preliminary re-evaluation of probabilistic seismic hazard assessment in Chile: from Arica to Taitao Peninsula. <i>Advances in Geosciences</i> , 0, 22, 147-153.	12.0	21
26	Abrupt increase in the coastal uplift and earthquake rate since ~440 ka at the northern Chile seismic gap in the Central Andes. <i>Earth and Planetary Science Letters</i> , 2018, 502, 32-45.	1.8	20
27	The Constitución earthquake of 25 March 2012: A large aftershock of the Maule earthquake near the bottom of the seismogenic zone. <i>Earth and Planetary Science Letters</i> , 2013, 377-378, 347-357.	1.8	19
28	Near-Field Spectra of Large Earthquakes. <i>Pure and Applied Geophysics</i> , 2019, 176, 983-1001.	0.8	18
29	Free vibration of soils during large earthquakes. <i>Soil Dynamics and Earthquake Engineering</i> , 2009, 29, 1-16.	1.9	17
30	Dynamic inversion of the 2015 Jujuy earthquake and similarity with other intraslab events. <i>Geophysical Journal International</i> , 2017, 209, 866-875.	1.0	17
31	Fluids Along the Plate Interface Influencing the Frictional Regime of the Chilean Subduction Zone, Northern Chile. <i>Geophysical Research Letters</i> , 2018, 45, 10,378.	1.5	17
32	Northern Chile intermediate-depth earthquakes controlled by plate hydration. <i>Geophysical Journal International</i> , 2021, 226, 78-90.	1.0	16
33	Reevaluacion del peligro sismico probabilistico en Chile central.. <i>Andean Geology</i> , 2010, 37, .	0.2	16
34	Subduction zone fluids and arc magmas conducted by lithospheric deformed regions beneath the central Andes. <i>Scientific Reports</i> , 2021, 11, 23078.	1.6	16
35	Empirical Site Classification of CSN Network Using Strong-Motion Records. <i>Seismological Research Letters</i> , 2018, 89, 512-518.	0.8	15
36	Stochastic Generation of Accelerograms for Subduction Earthquakes. <i>Bulletin of the Seismological Society of America</i> , 2016, 106, 2511-2520.	1.1	13

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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	Shallow Ambient Noise 3D Tomography in the Concepción Basin, Chile: Implications for Low-Frequency Ground Motions. Bulletin of the Seismological Society of America, 2019, 109, 75-86.	1.1	11
39	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
40	The deep Peru 2015 doublet earthquakes. Earth and Planetary Science Letters, 2017, 478, 102-109.	1.8	9
41	Damage assessment of the 2015 Mw 8.3 Illapel earthquake in the North-Central Chile. Natural Hazards, 2019, 96, 269-283.	1.6	9
42	Active Faulting, Submarine Surface Rupture, and Seismic Migration Along the Liquiñe-Ofqui Fault System, Patagonian Andes. Journal of Geophysical Research: Solid Earth, 2020, 125, e2020JB019946.	1.4	8
43	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
44	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
45	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
46	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
47	Stochastic Strong-Motion Simulation in Borehole and on Surface for the 2011 Mw 9.0 Tohoku-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
48	The 21 May 1960 Mw 8.1 Concepción Earthquake: A Deep Megathrust Foreshock That Started the 1960 Central-South Chilean Seismic Sequence. Seismological Research Letters, 2020, 91, 1617-1627.	0.8	7
49	The January 2019 (Mw 6.7) Coquimbo Earthquake: Insights from a Seismic Sequence within the Nazca Plate. Seismological Research Letters, 2019, , .	0.8	6
50	Post-seismic response of the outer accretionary prism after the 2010 Maule earthquake, Chile. , 2020, 16, 13-32.		6
51	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
52	Along-Dip Segmentation of the Slip Behavior and Rheology of the Copiapó Ridge Subducted in North-Central Chile. Geophysical Research Letters, 2022, 49, .	1.5	5
53	Volcanic Origin of a Long-Lived Swarm in the Central Bransfield Basin, Antarctica. Geophysical Research Letters, 2022, 49, .	1.5	5
54	Focal Mechanism, Magnitude, and Finite-Fault Rapid Estimation Using the Elliptical Patch Method in Chile. Seismological Research Letters, 2018, 89, 503-511.	0.8	4

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55	Shallow Nonvolcanic Tremor Activity and Potential Repeating Earthquakes in the Chile Triple Junction: Seismic Evidence of the Subduction of the Active Nazca Antarctic Spreading Center. <i>Seismological Research Letters</i> , 2019, , .	0.8	4
56	Earthquakes Felt in the Juan Fernandez Islands: Where Are They Coming from?. <i>Seismological Research Letters</i> , 2020, 91, 262-271.	0.8	4
57	Seismic noise variability as an indicator of urban mobility during the COVID-19 pandemic in the Santiago metropolitan region, Chile. <i>Solid Earth</i> , 2021, 12, 1075-1085.	1.2	4
58	Dynamic rupture of subduction earthquakes located near the trench. <i>Earth and Planetary Science Letters</i> , 2021, 562, 116842.	1.8	4
59	Early Stage and Main Ruptures of the 2015 Mw8.3 Illapel, Chile, Megathrust Earthquake: Kinematic Elliptical Inversions and Dynamic Rupture Simulations. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2020JB021207.	1.4	4
60	Complex Rupture of the 2015 Mw8.3 Illapel Earthquake and Prehistoric Events in the Central Chile Tsunami Gap. <i>Seismological Research Letters</i> , 2022, 93, 1479-1496.	0.8	4
61	Automated earthquake detection and local travel time tomography in the South-Central Andes (32-35°S): Implications for regional tectonics. <i>Journal of Geophysical Research: Solid Earth</i> , 0, , .	1.4	4
62	Estudio de efectos de sitio en la Región de Coquimbo durante el terremoto de Illapel Mw 8.3 de 2015. <i>Obras Y Proyectos</i> , 2017, , 20-28.	0.2	3
63	Seismicity along the Magallanes-Fagnano fault system. <i>Journal of South American Earth Sciences</i> , 2020, 103, 102799.	0.6	3
64	Reply to the comment on "Historical and recent large megathrust earthquakes in Chile". <i>Tectonophysics</i> , 2018, 745, 457-458.	0.9	2
65	The Impact of a Buried High-Velocity Layer in the Seismic Site Amplification of the City of Lolleo, Chile. <i>Bulletin of the Seismological Society of America</i> , 2018, 108, 2199-2208.	1.1	1
66	Spectrum of strong-motion records for large magnitude Chilean earthquakes. <i>Geophysical Journal International</i> , 2021, 226, 1045-1057.	1.0	0
67	The Role of Site Conditions on the Structural Damage in the City of Valdivia during the 22 May 1960 Mw9.5 Megathrust Chile Earthquake. <i>Seismological Research Letters</i> , 0, , .	0.8	0