

Louis De Barros

List of Publications by Year in descending order

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45
papers

1,388
citations

331670

21
h-index

345221

36
g-index

53
all docs

53
docs citations

53
times ranked

1620
citing authors

#	ARTICLE	IF	CITATIONS
1	Distributed sensing of earthquakes and ocean-solid Earth interactions on seafloor telecom cables. Nature Communications, 2019, 10, 5777.	12.8	188
2	Long-period seismicity in the shallow volcanic edifice formed from slow-rupture earthquakes. Nature Geoscience, 2014, 7, 71-75.	12.9	132
3	Mega-earthquakes rupture flat megathrusts. Science, 2016, 354, 1027-1031.	12.6	86
4	Generic along-strike segmentation of <sc>A</sc>far normal faults, <sc>E</sc>ast <sc>A</sc>frica: Implications on fault growth and stress heterogeneity on seismogenic fault planes. Geochemistry, Geophysics, Geosystems, 2015, 16, 443-467.	2.5	83
5	Aseismic Motions Drive a Sparse Seismicity During Fluid Injections Into a Fractured Zone in a Carbonate Reservoir. Journal of Geophysical Research: Solid Earth, 2017, 122, 8285-8304.	3.4	67
6	Imbricated Aseismic Slip and Fluid Diffusion Drive a Seismic Swarm in the Corinth Gulf, Greece. Geophysical Research Letters, 2020, 47, e2020GL087142.	4.0	59
7	Wave propagation in heterogeneous porous media formulated in the frequency-space domain using a discontinuous Galerkin method. Geophysics, 2011, 76, N13-N28.	2.6	50
8	Fault structure, stress, or pressure control of the seismicity in shale? Insights from a controlled experiment of fluid-induced fault reactivation. Journal of Geophysical Research: Solid Earth, 2016, 121, 4506-4522.	3.4	48
9	Stress Perturbation From Aseismic Slip Drives the Seismic Front During Fluid Injection in a Permeable Fault. Journal of Geophysical Research: Solid Earth, 2020, 125, e2019JB019179.	3.4	43
10	Time reverse location of seismic long-period events recorded on Mt Etna. Geophysical Journal International, 2011, 184, 452-462.	2.4	41
11	Seismicity and fault aseismic deformation caused by fluid injection in decametric in-situ experiments. Comptes Rendus - Geoscience, 2018, 350, 464-475.	1.2	36
12	Energy of injection-induced seismicity predicted from in-situ experiments. Scientific Reports, 2019, 9, 4999.	3.3	35
13	Source mechanism of long-period events recorded by a high-density seismic network during the 2008 eruption on Mount Etna. Journal of Geophysical Research, 2011, 116, .	3.3	34
14	Fluid-Induced Swarms and Coseismic Stress Transfer: A Dual Process Highlighted in the Aftershock Sequence of the 7 April 2014 Earthquake (Ml 4.8, Ubaye, France). Journal of Geophysical Research: Solid Earth, 2019, 124, 3918-3932.	3.4	33
15	Source geometry from exceptionally high resolution long period event observations at Mt Etna during the 2008 eruption. Geophysical Research Letters, 2009, 36, .	4.0	31
16	Full waveform inversion of seismic waves reflected in a stratified porous medium. Geophysical Journal International, 2010, 182, 1543-1556.	2.4	30
17	Fault Trace Corrugation and Segmentation as a Measure of Fault Structural Maturity. Geophysical Research Letters, 2021, 48, e2021GL095372.	4.0	30
18	Seismic responses to fluid pressure perturbations in a slipping fault. Geophysical Research Letters, 2015, 42, 3197-3203.	4.0	29

#	ARTICLE	IF	CITATIONS
19	Ridge subduction and afterslip control aftershock distribution of the 2016 Mw 7.8 Ecuador earthquake. <i>Earth and Planetary Science Letters</i> , 2019, 520, 63-76.	4.4	27
20	Seismic velocity changes associated with aseismic deformations of a fault stimulated by fluid injection. <i>Geophysical Research Letters</i> , 2016, 43, 9563-9572.	4.0	26
21	Perturbations of the seismic reflectivity of a fluid-saturated depth-dependent poroelastic medium. <i>Journal of the Acoustical Society of America</i> , 2008, 123, 1409-1420.	1.1	25
22	Field-scale fault reactivation experiments by fluid injection highlight aseismic leakage in caprock analogs: Implications for CO2 sequestration. <i>International Journal of Greenhouse Gas Control</i> , 2021, 111, 103471.	4.6	22
23	Dual Seismic Migration Velocities in Seismic Swarms. <i>Geophysical Research Letters</i> , 2021, 48, .	4.0	20
24	Moment tensor inversion for the source location and mechanism of long period (LP) seismic events from 2009 at Turrialba volcano, Costa Rica. <i>Journal of Volcanology and Geothermal Research</i> , 2013, 258, 215-223.	2.1	18
25	The Western Gulf of Corinth (Greece) 2020â€“2021 Seismic Crisis and Cascading Events: First Results from the Corinth Rift Laboratory Network. <i>The Seismic Record</i> , 2021, 1, 85-95.	3.1	18
26	Migration of Fluidâ€“Induced Seismicity Reveals the Seismogenic State of Faults. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, .	3.4	17
27	Origin of spurious single forces in the source mechanism of volcanic seismicity. <i>Journal of Volcanology and Geothermal Research</i> , 2013, 262, 1-6.	2.1	16
28	Seismic source mechanisms of tremor recorded on Arenal volcano, Costa Rica, retrieved by waveform inversion. <i>Journal of Volcanology and Geothermal Research</i> , 2012, 213-214, 1-13.	2.1	15
29	Crustal structure below Popocatepetl Volcano (Mexico) from analysis of Rayleigh waves. <i>Journal of Volcanology and Geothermal Research</i> , 2008, 170, 5-11.	2.1	14
30	Imaging magma storage below Teide volcano (Tenerife) using scattered seismic wavefields. <i>Geophysical Journal International</i> , 2012, 191, 695-706.	2.4	14
31	Eruptive fracture location forecasts from highâ€“frequency events on Piton de la Fournaise Volcano. <i>Geophysical Research Letters</i> , 2013, 40, 4599-4603.	4.0	14
32	A brittle failure model for longâ€“period seismic events recorded at Turrialba Volcano, Costa Rica. <i>Journal of Geophysical Research: Solid Earth</i> , 2015, 120, 1452-1472.	3.4	14
33	Investigating the source characteristics of long-period (LP) seismic events recorded on Piton de la Fournaise volcano, La Reunion. <i>Journal of Volcanology and Geothermal Research</i> , 2013, 258, 1-11.	2.1	13
34	Illuminating the Rupturing of Microseismic Sources in an Injectionâ€“Induced Earthquake Experiment. <i>Geophysical Research Letters</i> , 2019, 46, 9563-9572.	4.0	12
35	A passive lowâ€“frequency seismic experiment in the Albertine Graben, Uganda. <i>Geophysical Prospecting</i> , 2013, 61, 39-61.	1.9	10
36	Transient evolution of permeability and friction in a slowly slipping fault activated by fluid pressurization. <i>Nature Communications</i> , 2022, 13, .	12.8	9

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37	Repeating Earthquakes at the Edge of the Afterslip of the 2016 Ecuadorian $M_w > 7.8$ Pedernales Earthquake. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2021JB021746.	3.4	8
38	Investigating Dynamic Triggering of Seismicity by Regional Earthquakes: The Case of the Corinth Rift (Greece). <i>Geophysical Research Letters</i> , 2017, 44, 10,921.	4.0	6
39	Aseismic deformations perturb the stress state and trigger induced seismicity during injection experiments. <i>Geophysical Journal International</i> , 2020, 224, 1464-1475.	2.4	5
40	Relocation of longâ€period (LP) seismic events reveals en echelon fractures in the upper edifice of Turrialba volcano, Costa Rica. <i>Geophysical Research Letters</i> , 2016, 43, 10,105.	4.0	3
41	Sensitivity of the Seismic Moment Released During Fluid Injection to Fault Hydromechanical Properties and Background Stress. <i>Frontiers in Earth Science</i> , 2021, 9, .	1.8	2
42	Seismic activity in the Ubaye Region (French Alps): a specific behaviour highlighted by mainshocks and swarm sequences. <i>Comptes Rendus - Geoscience</i> , 2021, 353, 535-559.	1.2	2
43	Firstâ€order perturbations of the seismic response of fluidâ€filled stratified poroâ€elastic media. , 2006, , .		1
44	Why Are There No Earthquakes in the Intracratonic Paris Basin? Insights from Flexural Models. <i>Geosciences (Switzerland)</i> , 2019, 9, 502.	2.2	1
45	Discontinuous Galerkin method in frequencyâ€space domain for wave propagation in 2D heterogeneous porous media. , 2010, , .		0