Louis De Barros

List of Publications by Year
in descending order

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	Transient evolution of permeability and friction in a slowly slipping fault activated by fluid pressurization. Nature Communications, 2022, 13, .	12.8	9
2	Dual Seismic Migration Velocities in Seismic Swarms. Geophysical Research Letters, 2021, 48, .	4.0	20
3	Sensitivity of the Seismic Moment Released During Fluid Injection to Fault Hydromechanical Properties and Background Stress. Frontiers in Earth Science, 2021, 9, .	1.8	2
4	Repeating Earthquakes at the Edge of the Afterslip of the 2016 Ecuadorian M_W7.8 Pedernales Earthquake. Journal of Geophysical Research: Solid Earth, 2021, 126, e2021JB021746.	3.4	8
5	The Western Gulf of Corinth (Greece) 2020â€“2021 Seismic Crisis and Cascading Events: First Results from the Corinth Rift Laboratory Network. The Seismic Record, 2021, 1, 85-95.	3.1	18
6	Seismic activity in the Ubaye Region (French Alps): a specific behaviour highlighted by mainshocks and swarm sequences. Comptes Rendus - Geoscience, 2021, 353, 535-559.	1.2	2
7	Field-scale fault reactivation experiments by fluid injection highlight aseismic leakage in caprock analogs: Implications for CO2 sequestration. International Journal of Greenhouse Gas Control, 2021, 111, 103471.	4.6	22
8	Fault Trace Corrugation and Segmentation as a Measure of Fault Structural Maturity. Geophysical Research Letters, 2021, 48, e2021GL095372.	4.0	30
9	Migration of Fluidâ€Induced Seismicity Reveals the Seismogenic State of Faults. Journal of Geophysical Research: Solid Earth, 2021, 126, .	3.4	17
10	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
11	Imbricated Aseismic Slip and Fluid Diffusion Drive a Seismic Swarm in the Corinth Gulf, Greece. Geophysical Research Letters, 2020, 47, e2020GL087142.	4.0	59
12	Aseismic deformations perturb the stress state and trigger induced seismicity during injection experiments. Geophysical Journal International, 2020, 224, 1464-1475.	2.4	5
13	Illuminating the Rupturing of Microseismic Sources in an Injectionâ€Induced Earthquake Experiment. Geophysical Research Letters, 2019, 46, 9563-9572.	4.0	12
14	Ridge subduction and afterslip control aftershock distribution of the 2016 Mw 7.8 Ecuador earthquake. Earth and Planetary Science Letters, 2019, 520, 63-76.	4.4	27
15	Fluidâ€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
16	Energy of injection-induced seismicity predicted from in-situ experiments. Scientific Reports, 2019, 9, 4999.	3.3	35
17	Why Are There No Earthquakes in the Intracratonic Paris Basin? Insights from Flexural Models. Geosciences (Switzerland), 2019, 9, 502.	2.2	1
18	Distributed sensing of earthquakes and ocean-solid Earth interactions on seafloor telecom cables. Nature Communications, 2019, 10, 5777.	12.8	188

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19	Seismicity and fault aseismic deformation caused by fluid injection in decametric in-situ experiments. Comptes Rendus - Geoscience, 2018, 350, 464-475.	1.2	36
20	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
21	Investigating Dynamic Triggering of Seismicity by Regional Earthquakes: The Case of the Corinth Rift (Greece). Geophysical Research Letters, 2017, 44, 10,921.	4.0	6
22	Relocation of longâ€period (LP) seismic events reveals en echelon fractures in the upper edifice of Turrialba volcano, Costa Rica. Geophysical Research Letters, 2016, 43, 10,105.	4.0	3
23	Seismic velocity changes associated with aseismic deformations of a fault stimulated by fluid injection. Geophysical Research Letters, 2016, 43, 9563-9572.	4.0	26
24	Mega-earthquakes rupture flat megathrusts. Science, 2016, 354, 1027-1031.	12.6	86
25	Fault structure, stress, or pressure control of the seismicity in shale? Insights from a controlled experiment of fluidâ€induced fault reactivation. Journal of Geophysical Research: Solid Earth, 2016, 121, 4506-4522.	3.4	48
26	Seismic responses to fluid pressure perturbations in a slipping fault. Geophysical Research Letters, 2015, 42, 3197-3203.	4.0	29
27	A brittle failure model for longâ€period seismic events recorded at Turrialba Volcano, Costa Rica. Journal of Geophysical Research: Solid Earth, 2015, 120, 1452-1472.	3.4	14
28	Generic alongâ€strike segmentation of <scp>A</scp>far normal faults, <scp>E</scp>ast <scp>A</scp>frica: Implications on fault growth and stress heterogeneity on seismogenic fault planes. Geochemistry, Geophysics, Geosystems, 2015, 16, 443-467.	2.5	83
29	Long-period seismicity in the shallow volcanic edifice formed from slow-rupture earthquakes. Nature Geoscience, 2014, 7, 71-75.	12.9	132
30	A passive lowâ€frequency seismic experiment in the Albertine Graben, Uganda. Geophysical Prospecting, 2013, 61, 39-61.	1.9	10
31	Moment tensor inversion for the source location and mechanism of long period (LP) seismic events from 2009 at Turrialba volcano, Costa Rica. Journal of Volcanology and Geothermal Research, 2013, 258, 215-223.	2.1	18
32	Origin of spurious single forces in the source mechanism of volcanic seismicity. Journal of Volcanology and Geothermal Research, 2013, 262, 1-6.	2.1	16
33	Investigating the source characteristics of long-period (LP) seismic events recorded on Piton de la Fournaise volcano, La RÃ©union. Journal of Volcanology and Geothermal Research, 2013, 258, 1-11.	2.1	13
34	Eruptive fracture location forecasts from highâ€frequency events on Piton de la Fournaise Volcano. Geophysical Research Letters, 2013, 40, 4599-4603.	4.0	14
35	Imaging magma storage below Teide volcano (Tenerife) using scattered seismic wavefields. Geophysical Journal International, 2012, 191, 695-706.	2.4	14
36	Seismic source mechanisms of tremor recorded on Arenal volcano, Costa Rica, retrieved by waveform inversion. Journal of Volcanology and Geothermal Research, 2012, 213-214, 1-13.	2.1	15

#	Article	IF	Citations
37	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
38	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
39	Time reverse location of seismic long-period events recorded on Mt Etna. Geophysical Journal International, 2011, 184, 452-462.	2.4	41
40	Full waveform inversion of seismic waves reflected in a stratified porous medium. Geophysical Journal International, 2010, 182, 1543-1556.	2.4	30
41	Discontinuous Galerkin method in frequencyâ€space domain for wave propagation in 2D heterogeneous porous media. , 2010, , .		0
42	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
43	Crustal structure below PopocatÃ©petl Volcano (Mexico) from analysis of Rayleigh waves. Journal of Volcanology and Geothermal Research, 2008, 170, 5-11.	2.1	14
44	Perturbations of the seismic reflectivity of a fluid-saturated depth-dependent poroelastic medium. Journal of the Acoustical Society of America, 2008, 123, 1409-1420.	1.1	25
45	Firstâ€order perturbations of the seismic response of fluidâ€filled stratified poroâ€elastic media. , 2006, , .		1