

Laurent Bollinger

List of Publications by Year in descending order

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Version: 2024-02-01

64
papers

4,767
citations

136950

32
h-index

110387

64
g-index

70
all docs

70
docs citations

70
times ranked

3221
citing authors

#	ARTICLE	IF	CITATIONS
1	The 2019 Le Teil surface-rupturing earthquake along the La Rouvière Fault within the Cövennes fault system (France): What does paleoseismology reveal?. E3S Web of Conferences, 2022, 342, 04001.	0.5	1
2	A decade of seismicity in metropolitan France (2010–2019): the CEA/LDG methodologies and observations. Bulletin - Societie Geologique De France, 2021, 192, 25.	2.2	16
3	Is the Machecoul fault the source of the M6 1799 Vendée earthquake (France)?. Geophysical Journal International, 2021, 225, 2035-2059.	2.4	3
4	Building the Himalaya from tectonic to earthquake scales. Nature Reviews Earth & Environment, 2021, 2, 251-268.	29.7	53
5	Multitechnology characterization of an unusual surface rupturing intraplate earthquake: the ML 5.4 2019 Le Teil event in France. Geophysical Journal International, 2021, 226, 803-813.	2.4	9
6	Seismicity in far western Nepal reveals flats and ramps along the Main Himalayan Thrust. Geophysical Journal International, 2021, 226, 1747-1763.	2.4	6
7	Orogenic Collapse and Stress Adjustments Revealed by an Intense Seismic Swarm Following the 2015 Gorkha Earthquake in Nepal. Frontiers in Earth Science, 2021, 9, .	1.8	6
8	25,000 Years long seismic cycle in a slow deforming continental region of Mongolia. Scientific Reports, 2021, 11, 17855.	3.3	8
9	FMHex20: An earthquake focal mechanism database for seismotectonic analyses in metropolitan France and bordering regions. Bulletin - Societie Geologique De France, 2021, 192, 10.	2.2	17
10	Localized extension in megathrust hanging wall following great earthquakes in western Nepal. Scientific Reports, 2021, 11, 21521.	3.3	4
11	Seismic swarms in Tricastin, lower Rhône Valley (France): review of historical and instrumental seismicity and models. Comptes Rendus - Geoscience, 2021, 353, 585-606.	1.2	2
12	Testing Fault Models in Intraplate Settings: A Potential for Challenging the Seismic Hazard Assessment Inputs and Hypothesis?. Pure and Applied Geophysics, 2020, 177, 1879-1889.	1.9	7
13	Post Earthquake Aggradation Processes to Hide Surface Ruptures in Thrust Systems: The M8.3, 1934, Bihar–Nepal Earthquake Ruptures at Charnath Khola (Eastern Nepal). Journal of Geophysical Research: Solid Earth, 2019, 124, 9182-9207.	3.4	21
14	Postseismic deformation following the April 25, 2015 Gorkha earthquake (Nepal): Afterslip versus viscous relaxation. Journal of Asian Earth Sciences, 2019, 176, 105-119.	2.3	22
15	Geologic Inheritance and Earthquake Rupture Processes: The 1905 M8 Tsetserleg–Bulnay Strike–Slip Earthquake Sequence, Mongolia. Journal of Geophysical Research: Solid Earth, 2018, 123, 1925-1953.	3.4	53
16	Imaging the Moho and the Main Himalayan Thrust in Western Nepal With Receiver Functions. Geophysical Research Letters, 2018, 45, 13,222.	4.0	36
17	Lateral variations of the midcrustal seismicity in western Nepal: Seismotectonic implications. Earth and Planetary Science Letters, 2018, 504, 115-125.	4.4	23
18	Persistent CO2 emissions and hydrothermal unrest following the 2015 earthquake in Nepal. Nature Communications, 2018, 9, 2956.	12.8	36

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19	Challenges Ahead for Nuclear Facility Site-Specific Seismic Hazard Assessment in France: The Alternative Energies and the Atomic Energy Commission (CEA) Vision. Pageoph Topical Volumes, 2018, , 285-309.	0.2	1
20	Special issue "The 2015 Gorkha, Nepal, earthquake and Himalayan studies: First results". Earth, Planets and Space, 2017, 69, .	2.5	5
21	Automatic analysis of the Gorkha earthquake aftershock sequence: evidences of structurally segmented seismicity. Geophysical Journal International, 2017, 209, 1111-1125.	2.4	27
22	Challenges Ahead for Nuclear Facility Site-Specific Seismic Hazard Assessment in France: The Alternative Energies and the Atomic Energy Commission (CEA) Vision. Pure and Applied Geophysics, 2017, 174, 3609-3633.	1.9	10
23	Lateral structure variations and transient swarm revealed by seismicity along the Main Himalayan Thrust north of Kathmandu. Tectonophysics, 2017, 714-715, 107-116.	2.2	18
24	Effective radium concentration in agricultural versus forest topsoils. Journal of Environmental Radioactivity, 2016, 160, 123-134.	1.7	5
25	Teleseismic depth estimation of the 2015 Gorkha~Nepal aftershocks. Geophysical Journal International, 2016, 207, 1584-1595.	2.4	15
26	Establishing a reference rock site for the site effect study in and around the Kathmandu valley, Nepal. Earth, Planets and Space, 2016, 68, .	2.5	2
27	Fatality rates of the M _w ~8.2, 1934, Bihar~Nepal earthquake and comparison with the April 2015 Gorkha earthquake. Earth, Planets and Space, 2016, 68, .	2.5	27
28	Evidence for the release of long-term tectonic strain stored in continental interiors through intraplate earthquakes. Geophysical Research Letters, 2016, 43, 6826-6836.	4.0	62
29	Slip deficit in central Nepal: omen for a repeat of the 1344 AD earthquake?. Earth, Planets and Space, 2016, 68, .	2.5	89
30	Surface ruptures of large Himalayan earthquakes in Western Nepal: Evidence along a reactivated strand of the Main Boundary Thrust. Earth and Planetary Science Letters, 2016, 434, 187-196.	4.4	44
31	Rupture process of the M _w ~7.9 2015 Gorkha earthquake (Nepal): Insights into Himalayan megathrust segmentation. Geophysical Research Letters, 2015, 42, 8373-8382.	4.0	170
32	The aftershock sequence of the 2015 April 25 Gorkha~Nepal earthquake. Geophysical Journal International, 2015, 203, 2119-2124.	2.4	108
33	Slip pulse and resonance of the Kathmandu basin during the 2015 Gorkha earthquake, Nepal. Science, 2015, 349, 1091-1095.	12.6	287
34	Estimating the return times of great Himalayan earthquakes in eastern Nepal: Evidence from the Patu and Bardibas strands of the Main Frontal Thrust. Journal of Geophysical Research: Solid Earth, 2014, 119, 7123-7163.	3.4	182
35	Large-scale organization of carbon dioxide discharge in the Nepal Himalayas. Geophysical Research Letters, 2014, 41, 6358-6366.	4.0	26
36	Multifaulting in a tectonic syntaxis revealed by InSAR: The case of the Ziarat earthquake sequence (Pakistan). Journal of Geophysical Research: Solid Earth, 2014, 119, 5838-5854.	3.4	11

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37	Primary surface ruptures of the great Himalayan earthquakes in 1934 and 1255. <i>Nature Geoscience</i> , 2013, 6, 71-76.	12.9	288
38	Long-term growth of the Himalaya inferred from interseismic InSAR measurement. <i>Geology</i> , 2012, 40, 1059-1062.	4.4	136
39	Convergence rate across the Nepal Himalaya and interseismic coupling on the Main Himalayan Thrust: Implications for seismic hazard. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	419
40	Effective radium concentration across the Main Central Thrust in the Nepal Himalayas. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 98, 203-227.	3.9	16
41	Capturing first records at the Nepal NSC accelerometric network. <i>Journal of Nepal Geological Society</i> , 2011, 43, 137-144.	0.2	1
42	Towards the hydrologic and bed load monitoring from high-frequency seismic noise in a braided river: The "torrent de St Pierre", French Alps. <i>Journal of Hydrology</i> , 2011, 408, 43-53.	5.4	77
43	Discontinuous low-velocity zones in southern Tibet question the viability of the channel flow model. <i>Geological Society Special Publication</i> , 2011, 353, 99-108.	1.3	30
44	Hydrological triggering of the seismicity around a salt diapir in Castellane, France. <i>Earth and Planetary Science Letters</i> , 2010, 290, 20-29.	4.4	16
45	Exhumation, crustal deformation, and thermal structure of the Nepal Himalaya derived from the inversion of thermochronological and thermobarometric data and modeling of the topography. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	245
46	A direct evidence for high carbon dioxide and radon-222 discharge in Central Nepal. <i>Earth and Planetary Science Letters</i> , 2009, 278, 198-207.	4.4	49
47	Spatiotemporal sequence of Himalayan debris flow from analysis of high-frequency seismic noise. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	55
48	Spectral analysis of seismic noise induced by rivers: A new tool to monitor spatiotemporal changes in stream hydrodynamics. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	128
49	Uplift of the 2004 Sumatra-Andaman earthquake measured from differential hyperspectral imagery of coastal waters. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	8
50	Seasonal variations of seismicity and geodetic strain in the Himalaya induced by surface hydrology. <i>Earth and Planetary Science Letters</i> , 2008, 266, 332-344.	4.4	204
51	Structure of the crust and the lithosphere in the Himalaya-Tibet region and implications on the rheology and eclogitization of the India plate. <i>Himalayan Journal of Sciences</i> , 2008, 5, 65-66.	0.3	1
52	Density distribution of the India plate beneath the Tibetan plateau: Geophysical and petrological constraints on the kinetics of lower-crustal eclogitization. <i>Earth and Planetary Science Letters</i> , 2007, 264, 226-244.	4.4	168
53	Seasonal modulation of seismicity in the Himalaya of Nepal. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	112
54	Mountain building in the Nepal Himalaya: Thermal and kinematic model. <i>Earth and Planetary Science Letters</i> , 2006, 244, 58-71.	4.4	223

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55	Plate Motion of India and Interseismic Strain in the Nepal Himalaya from GPS and DORIS Measurements. <i>Journal of Geodesy</i> , 2006, 80, 567-589.	3.6	289
56	Evidence for Mio-Pliocene retrograde monazite in the Lesser Himalaya, far western Nepal. <i>European Journal of Mineralogy</i> , 2006, 18, 289-297.	1.3	47
57	Horizontal coseismic deformation of the 2003 Bam (Iran) earthquake measured from SPOT-5 THR satellite imagery. <i>Geophysical Research Letters</i> , 2005, 32, .	4.0	45
58	Current shortening across the Himalayas of Nepal. <i>Geophysical Journal International</i> , 2004, 157, 1-14.	2.4	179
59	Stress buildup in the Himalaya. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	148
60	Thermal structure and exhumation history of the Lesser Himalaya in central Nepal. <i>Tectonics</i> , 2004, 23, n/a-n/a.	2.8	187
61	Thermal metamorphism in the lesser Himalaya of Nepal determined from Raman spectroscopy of carbonaceous material. <i>Earth and Planetary Science Letters</i> , 2004, 225, 233-241.	4.4	172
62	Influence of viscous layers on the growth of normal faults: insights from experimental and numerical models. <i>Journal of Structural Geology</i> , 2003, 25, 1471-1485.	2.3	33
63	Le cycle sismique en Himalaya. <i>Comptes Rendus De L'Académie Des Sciences Earth & Planetary Sciences Série II, Sciences De La Terre Et Des Planètes</i> , 2001, 333, 513-529.	0.2	16
64	Double difference relocation of local earthquakes in the Nepal Himalaya. <i>Journal of Nepal Geological Society</i> , 0, 46, .	0.2	4