

# Robin Lacassin

## List of Publications by Year in descending order

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65  
papers

6,482  
citations

117571

34  
h-index

102432

66  
g-index

95  
all docs

95  
docs citations

95  
times ranked

4140  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Ailao Shan-Red River shear zone (Yunnan, China), Tertiary transform boundary of Indochina. <i>Tectonophysics</i> , 1995, 251, 3-84.	0.9	954
2	The Ailao Shan/Red River metamorphic belt: Tertiary left-lateral shear between Indochina and South China. <i>Nature</i> , 1990, 343, 431-437.	13.7	857
3	New constraints on the structure, thermochronology, and timing of the Ailao Shan-Red River shear zone, SE Asia. <i>Journal of Geophysical Research</i> , 2001, 106, 6683-6732.	3.3	571
4	The 2010 <i>M<sub>w</sub></i> 8.8 Maule Megathrust Earthquake of Central Chile, Monitored by GPS. <i>Science</i> , 2011, 332, 1417-1421.	6.0	345
5	Structural, petrological and thermal evolution of a Tertiary ductile strike-slip shear zone, Diancang Shan, Yunnan. <i>Journal of Geophysical Research</i> , 1993, 98, 6715-6743.	3.3	258
6	Intraplate tectonics in Asia: A precise age for large-scale Miocene movement along the Ailao Shan-Red River shear zone, China. <i>Earth and Planetary Science Letters</i> , 1990, 97, 65-77.	1.8	225
7	Shear heating in continental strike-slip shear zones: model and field examples. <i>Geophysical Journal International</i> , 1999, 136, 19-40.	1.0	214
8	Tertiary diachronic extrusion and deformation of western Indochina: Structural and <sup>40</sup> Ar/ <sup>39</sup> Ar evidence from NW Thailand. <i>Journal of Geophysical Research</i> , 1997, 102, 10013-10037.	3.3	210
9	Large river offsets and Plio-Quaternary dextral slip rate on the Red River fault (Yunnan, China). <i>Journal of Geophysical Research</i> , 2001, 106, 819-836.	3.3	209
10	Coupled tectonic evolution of Andean orogeny and global climate. <i>Earth-Science Reviews</i> , 2015, 143, 1-35.	4.0	187
11	Large-scale geometry, offset and kinematic evolution of the Karakorum fault, Tibet. <i>Earth and Planetary Science Letters</i> , 2004, 219, 255-269.	1.8	181
12	Rupture process of the <i>M<sub>w</sub></i> 7.9 2015 Gorkha earthquake (Nepal): Insights into Himalayan megathrust segmentation. <i>Geophysical Research Letters</i> , 2015, 42, 8373-8382.	1.5	170
13	Hairpin river loops and slip-sense inversion on southeast Asian strike-slip faults. <i>Geology</i> , 1998, 26, 703.	2.0	140
14	Discussion on the role of the Red River shear zone, Yunnan and Vietnam, in the continental extrusion of SE Asia <i>Journal</i> , Vol. 163, 2006, 1025-1036. <i>Journal of the Geological Society</i> , 2007, 164, 1253-1260.	0.9	123
15	Long and complex thermal history of the Song Chay metamorphic dome (Northern Vietnam) by multi-system geochronology. <i>Tectonophysics</i> , 2000, 321, 449-466.	0.9	116
16	Alpine thermal and structural evolution of the highest external crystalline massif: The Mont Blanc. <i>Tectonics</i> , 2005, 24, n/a-n/a.	1.3	107
17	Bounds on strain in large Tertiary shear zones of SE Asia from boudinage restoration. <i>Journal of Structural Geology</i> , 1993, 15, 677-692.	1.0	102
18	New U-Th/Pb constraints on timing of shearing and long-term slip rate on the Karakorum fault. <i>Tectonics</i> , 2008, 27, .	1.3	98

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19	Kilometre-scale sheath fold at Mattmark and implications for transport direction in the Alps. <i>Nature</i> , 1985, 315, 739-742.	13.7	88
20	Twenty million years of continuous deformation along the Karakorum fault, western Tibet: A thermochronological analysis. <i>Tectonics</i> , 2007, 26, .	1.3	83
21	Post 4ÂMa initiation of normal faulting in southern Tibet. Constraints from the Kung Co half graben. <i>Earth and Planetary Science Letters</i> , 2007, 256, 233-243.	1.8	74
22	Tertiary deformation and metamorphism SE of Tibet: The folded Tiger-leap dÃ©collement of NW Yunnan, China. <i>Tectonics</i> , 1996, 15, 605-622.	1.3	71
23	The M5.3 Åpagny (French Alps) earthquake of 1996 July 15: a long-awaited event on the Vuache Fault. <i>Geophysical Journal International</i> , 1998, 135, 876-892.	1.0	69
24	Seismic anisotropy beneath Tibet: evidence for eastward extrusion of the Tibetan lithosphere?. <i>Earth and Planetary Science Letters</i> , 1996, 140, 83-96.	1.8	66
25	The West Andean Thrust, the San RamÃ³n Fault, and the seismic hazard for Santiago, Chile. <i>Tectonics</i> , 2010, 29, n/a-n/a.	1.3	64
26	The Basel 1356 earthquake: which fault produced it?. <i>Terra Nova</i> , 1994, 6, 54-63.	0.9	59
27	Rupture Process of the Mw 5.8 Pawnee, Oklahoma, Earthquake from Sentinelâ€ InSAR and Seismological Data. <i>Seismological Research Letters</i> , 2017, 88, 994-1004.	0.8	56
28	Probing large intraplate earthquakes at the west flank of the Andes. <i>Geology</i> , 2014, 42, 1083-1086.	2.0	54
29	Large-scale foliation boudinage in gneisses. <i>Journal of Structural Geology</i> , 1988, 10, 643-647.	1.0	50
30	Signification tectonique des lineations d'allongement dans les Alpes occidentales. <i>Bulletin - Societie Geologique De France</i> , 1984, S7-XXVI, 895-906.	0.9	49
31	Transient stripping of subducting slabs controls periodic forearc uplift. <i>Nature Communications</i> , 2020, 11, 1823.	5.8	49
32	Unconformity of red sandstones in north Vietnam: field evidence for Indosinian orogeny in northern Indochina?. <i>Terra Nova</i> , 1998, 10, 106-111.	0.9	46
33	Seismic activity in the Sumatraâ€Java region prior to the December 26, 2004 (Mw=9.0â€9.3) and March 28, 2005 (Mw=8.7) earthquakes. <i>Earth and Planetary Science Letters</i> , 2006, 244, 639-654.	1.8	42
34	Finite strain determination of gneiss: Application of Fry's method to porphyroid in the southern Massif Central (France). <i>Journal of Structural Geology</i> , 1983, 5, 245-253.	1.0	34
35	Geological structures control on earthquake ruptures: The <i>M<sub>w</sub></i>7.7, 2013, Balochistan earthquake, Pakistan. <i>Geophysical Research Letters</i> , 2016, 43, 10,155.	1.5	34
36	Revisiting the Crustal Structure and Kinematics of the Central Andes at 33.5Â°S: Implications for the Mechanics of Andean Mountain Building. <i>Tectonics</i> , 2018, 37, 1347-1375.	1.3	31

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37	Syn- and post-orogenic exhumation of metamorphic rocks in North Aegean. <i>Earth</i> , 2007, 2, 51-63.	0.8	27
38	Successive deformation episodes along the Lungmu Co zone, west-central Tibet. <i>Gondwana Research</i> , 2012, 21, 37-52.	3.0	26
39	Kinematics of the active West Andean fold-and-thrust belt (central Chile): Structure and long-term shortening rate. <i>Tectonics</i> , 2017, 36, 287-303.	1.3	26
40	Rapid collaborative knowledge building via Twitter after significant geohazard events. <i>Geoscience Communication</i> , 2020, 3, 129-146.	0.5	26
41	Kinematics of ductile shearing from outcrop to crustal scale in the Monte Rosa Nappe, Western Alps. <i>Tectonics</i> , 1987, 6, 69-88.	1.3	24
42	Lithospheric flexure and rheology determined by climate cycle markers in the Corinth Rift. <i>Scientific Reports</i> , 2019, 9, 4260.	1.6	24
43	How do sea-level curves influence modeled marine terrace sequences?. <i>Quaternary Science Reviews</i> , 2020, 229, 106132.	1.4	22
44	“Bone-shaped” boudins in progressive shearing. <i>Journal of Structural Geology</i> , 1988, 10, 335-345.	1.0	20
45	Comment on “Onset timing of left-lateral movement along the Ailao Shan-Red river shear zone: 40Ar/39Ar dating constraint from the Nam Dinh area, northeastern Vietnam” by Wang et al., 2000. <i>Journal of Asian Earth Sciences</i> 18, 281-292. <i>Journal of Asian Earth Sciences</i> , 2001, 20, 95-99.	1.0	19
46	Reply to Comment on “Large-scale geometry, offset and kinematic evolution of the Karakorum fault, Tibet”. <i>Earth and Planetary Science Letters</i> , 2004, 229, 159-163.	1.8	17
47	A new crustal fault formed the modern Corinth Rift. <i>Earth-Science Reviews</i> , 2019, 199, 102919.	4.0	15
48	Geometry of Flexural Uplift by Continental Rifting in Corinth, Greece. <i>Tectonics</i> , 2020, 39, e2019TC005685.	1.3	15
49	Initial movement of the Karakorum Fault in western Tibet: constraints from SHRIMP U-Pb dating of zircons. <i>Science Bulletin</i> , 2007, 52, 1089-1100.	1.7	14
50	Comment on “Displacement along the Karakoram fault, NW Himalaya, estimated from LA-ICP-MS U-Pb dating of offset geologic markers” published by Shifeng Wang et al. in <i>EPSL</i> , 2012. <i>Earth and Planetary Science Letters</i> , 2013, 363, 242-245.	1.8	14
51	Early exhumation of the Frontal Cordillera (Southern Central Andes) and implications for Andean mountain-building at ~33.5°S. <i>Scientific Reports</i> , 2019, 9, 7972.	1.6	14
52	Communicating Seismic Risk: the Geoethical Challenges of a People-Centred, Participatory Approach. <i>Annals of Geophysics</i> , 2018, 60, .	0.5	12
53	Plate-scale kinematics and compatibility of crustal shear zones in the Alps. <i>Geological Society Special Publication</i> , 1989, 45, 339-352.	0.8	9
54	Crustal Strain in the Marmara Pull-Apart Region Associated With the Propagation Process of the North Anatolian Fault. <i>Tectonics</i> , 2018, 37, 1507-1523.	1.3	9

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55	Andean growth and monsoon winds drive landscape evolution at SW margin of South America. <i>Earth and Planetary Science Letters</i> , 2015, 414, 87-99.	1.8	8
56	The crisis of a paradigm. A methodological interpretation of Tohoku and Fukushima catastrophe. <i>Earth-Science Reviews</i> , 2016, 155, 49-59.	4.0	7
57	Exhumation of metamorphic rocks in N Aegean: the path from shortening to extension and extrusion. <i>Earth Discussions</i> , 2007, 2, 1-35.	0.3	7
58	Was the Trévaresse thrust the source of the 1909 Lambesc (Provence, France) earthquake? Historical and geomorphic evidence. <i>Comptes Rendus De L'Académie Des Sciences Earth &amp; Planetary Sciences Série II, Sciences De La Terre Et Des Planètes</i> , 2001, 333, 571-581.	0.2	6
59	Corinth terraces re-visited: Improved paleoshoreline determination using Pleiades-DEMs. <i>Geotectonic Research</i> , 2015, 97, 12-14.	0.1	6
60	Risk communication during seismo-volcanic crises: the example of Mayotte, France. <i>Natural Hazards and Earth System Sciences</i> , 2022, 22, 2001-2029.	1.5	4
61	Reply to comment by Y. Rolland et al. on "Alpine thermal and structural evolution of the highest external crystalline massif: The Mont Blanc". <i>Tectonics</i> , 2007, 26, n/a-n/a.	1.3	3
62	A comment on "Orogen-parallel, active left-slip faults in the eastern Himalaya: Implications for the growth mechanism of the Himalayan arc" by Li and Yin ( <i>Earth Planet Sci. Lett.</i> 274 (2008) 258-267). <i>Earth and Planetary Science Letters</i> , 2009, 285, 217-222.	1.8	3
63	Reply to the comment by R. A. Astini and F. M. D'Avila on "The West Andean Thrust, the San Ramón Fault, and the seismic hazard for Santiago, Chile". <i>Tectonics</i> , 2010, 29, n/a-n/a.	1.3	2
64	Sismotectonique du tremblement de terre du 12 janvier 2010 en Haïti. <i>Outre-Terre</i> , 2013, n° 35-36, 163-183.	0.0	1
65	Réponse aux commentaires de Ambert et al., Mattauer et Sobrier et al. à la note. <i>Comptes Rendus De L'Académie Des Sciences Earth &amp; Planetary Sciences Série II, Sciences De La Terre Et Des Planètes</i> , 1998, 327, 861-866.	0.2	0