

Jean Philippe Avouac

List of Publications by Year in descending order

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243
papers

23,943
citations

5126

86
h-index

10129

145
g-index

253
all docs

253
docs citations

253
times ranked

12943
citing authors

#	ARTICLE	IF	CITATIONS
1	Kinematic model of active deformation in central Asia. <i>Geophysical Research Letters</i> , 1993, 20, 895-898.	1.5	813
2	Automatic and Precise Orthorectification, Coregistration, and Subpixel Correlation of Satellite Images, Application to Ground Deformation Measurements. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2007, 45, 1529-1558.	2.7	717
3	Seismicity triggered by fluid injectionâ€‘induced aseismic slip. <i>Science</i> , 2015, 348, 1224-1226.	6.0	516
4	Frictional Afterslip Following the 2005 Nias-Simeulue Earthquake, Sumatra. <i>Science</i> , 2006, 312, 1921-1926.	6.0	440
5	Coseismic Slip and Afterslip of the Great Mw 9.15 Sumatra-Andaman Earthquake of 2004. <i>Bulletin of the Seismological Society of America</i> , 2007, 97, S152-S173.	1.1	431
6	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
7	Tectonics of Western Tibet, between the Tarim and the Indus. <i>Earth and Planetary Science Letters</i> , 1996, 142, 311-330.	1.8	416
8	Lower edge of locked Main Himalayan Thrust unzipped by the 2015 Gorkha earthquake. <i>Nature Geoscience</i> , 2015, 8, 708-711.	5.4	405
9	Plate-boundary deformation associated with the great Sumatraâ€‘Andaman earthquake. <i>Nature</i> , 2006, 440, 46-51.	13.7	395
10	Active thrusting and folding in the Qilian Shan, and decoupling between upper crust and mantle in northeastern Tibet. <i>Earth and Planetary Science Letters</i> , 1990, 97, 382-403.	1.8	375
11	Interseismic strain accumulation on the Himalayan crustal ramp (Nepal). <i>Geophysical Research Letters</i> , 1995, 22, 751-754.	1.5	347
12	Postseismic relaxation driven by brittle creep: A possible mechanism to reconcile geodetic measurements and the decay rate of aftershocks, application to the Chi-Chi earthquake, Taiwan. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	333
13	Indiaâ€‘Asia collision and the Cenozoic slowdown of the Indian plate: Implications for the forces driving plate motions. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	332
14	Partial rupture of a locked patch of the Sumatra megathrust during the 2007 earthquake sequence. <i>Nature</i> , 2008, 456, 631-635.	13.7	308
15	Himalayan megathrust geometry and relation to topography revealed by the Gorkha earthquake. <i>Nature Geoscience</i> , 2016, 9, 174-180.	5.4	302
16	MOUNTAIN BUILDING, EROSION, AND THE SEISMIC CYCLE IN THE NEPAL HIMALAYA. <i>Advances in Geophysics</i> , 2003, 46, 1-80.	1.1	298
17	Towards inferring earthquake patterns from geodetic observations of interseismic coupling. <i>Nature Geoscience</i> , 2010, 3, 363-369.	5.4	294
18	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.	1.6	289

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19	The 2005, Mw 7.6 Kashmir earthquake: Sub-pixel correlation of ASTER images and seismic waveforms analysis. <i>Earth and Planetary Science Letters</i> , 2006, 249, 514-528.	1.8	287
20	Slip pulse and resonance of the Kathmandu basin during the 2015 Gorkha earthquake, Nepal. <i>Science</i> , 2015, 349, 1091-1095.	6.0	287
21	Deformation and Slip Along the Sunda Megathrust in the Great 2005 Nias-Simeulue Earthquake. <i>Science</i> , 2006, 311, 1897-1901.	6.0	284
22	Measuring ground displacements from SAR amplitude images: Application to the Landers Earthquake. <i>Geophysical Research Letters</i> , 1999, 26, 875-878.	1.5	279
23	From Geodetic Imaging of Seismic and Aseismic Fault Slip to Dynamic Modeling of the Seismic Cycle. <i>Annual Review of Earth and Planetary Sciences</i> , 2015, 43, 233-271.	4.6	271
24	Heterogeneous coupling of the Sumatran megathrust constrained by geodetic and paleogeodetic measurements. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	253
25	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
26	Seismic and aseismic slip on the Central Peru megathrust. <i>Nature</i> , 2010, 465, 78-81.	13.7	241
27	Interseismic coupling on the main Himalayan thrust. <i>Geophysical Research Letters</i> , 2015, 42, 5828-5837.	1.5	234
28	Superficial simplicity of the 2010 El Mayor-Cucapah earthquake of Baja California in Mexico. <i>Nature Geoscience</i> , 2011, 4, 615-618.	5.4	225
29	Mountain building in the Nepal Himalaya: Thermal and kinematic model. <i>Earth and Planetary Science Letters</i> , 2006, 244, 58-71.	1.8	223
30	Earth-like sand fluxes on Mars. <i>Nature</i> , 2012, 485, 339-342.	13.7	219
31	Seismotectonics of the Nepal Himalaya from a local seismic network. <i>Journal of Asian Earth Sciences</i> , 1999, 17, 703-712.	1.0	213
32	Under the Hood of the Earthquake Machine: Toward Predictive Modeling of the Seismic Cycle. <i>Science</i> , 2012, 336, 707-710.	6.0	212
33	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.	1.8	204
34	Uplift and subsidence associated with the great Aceh-Andaman earthquake of 2004. <i>Journal of Geophysical Research</i> , 2006, 111, n/a-n/a.	3.3	193
35	Modeling afterslip and aftershocks following the 1992 Landers earthquake. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	193
36	Magnetostratigraphy of the Yaha section, Tarim Basin (China): 11 Ma acceleration in erosion and uplift of the Tian Shan mountains. <i>Geology</i> , 2006, 34, 181.	2.0	192

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37	Thermal structure and exhumation history of the Lesser Himalaya in central Nepal. <i>Tectonics</i> , 2004, 23, n/a-n/a.	1.3	187
38	Current shortening across the Himalayas of Nepal. <i>Geophysical Journal International</i> , 2004, 157, 1-14.	1.0	179
39	Source parameters of the great Sumatran megathrust earthquakes of 1797 and 1833 inferred from coral microatolls. <i>Journal of Geophysical Research</i> , 2006, 111, n/a-n/a.	3.3	176
40	Magnetostratigraphy and rock magnetism of the Neogene Kuitun He section (northwest China): implications for Late Cenozoic uplift of the Tianshan mountains. <i>Earth and Planetary Science Letters</i> , 2005, 230, 177-192.	1.8	175
41	Interseismic coupling and seismic potential along the Central Andes subduction zone. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	174
42	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.	1.8	172
43	Tectonic control of Yarlung Tsangpo Gorge revealed by a buried canyon in Southern Tibet. <i>Science</i> , 2014, 346, 978-981.	6.0	171
44	Seismic tomography of Taiwan: Improved constraints from a dense network of strong motion stations. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	164
45	Radon emanation and electric potential variations associated with transient deformation near reservoir lakes. <i>Nature</i> , 1999, 399, 137-141.	13.7	161
46	Slip rate on the Dead Sea transform fault in northern Araba valley (Jordan). <i>Geophysical Journal International</i> , 2000, 142, 755-768.	1.0	158
47	Rupture Kinematics of the 2005 Mw 8.6 Nias-Simeulue Earthquake from the Joint Inversion of Seismic and Geodetic Data. <i>Bulletin of the Seismological Society of America</i> , 2007, 97, S307-S322.	1.1	158
48	Stabilization of fault slip by fluid injection in the laboratory and in situ. <i>Science Advances</i> , 2019, 5, eaau4065.	4.7	149
49	Stress buildup in the Himalaya. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	148
50	Late Cenozoic metamorphic evolution and exhumation of Taiwan. <i>Tectonics</i> , 2007, 26, .	1.3	144
51	Evidence for mechanical coupling and strong Indian lower crust beneath southern Tibet. <i>Nature</i> , 2011, 472, 79-81.	13.7	144
52	The 2012 Brawley swarm triggered by injection-induced aseismic slip. <i>Earth and Planetary Science Letters</i> , 2015, 422, 115-125.	1.8	141
53	The 2013, Mw 7.7 Balochistan earthquake, energetic strike-slip reactivation of a thrust fault. <i>Earth and Planetary Science Letters</i> , 2014, 391, 128-134.	1.8	138
54	Erosion by an Alpine glacier. <i>Science</i> , 2015, 350, 193-195.	6.0	138

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55	Electrical structure of the Himalaya of central Nepal: High conductivity around the mid-crustal ramp along the MHT. <i>Geophysical Research Letters</i> , 1999, 26, 3261-3264.	1.5	137
56	Streaming potential measurements: 1. Properties of the electrical double layer from crushed rock samples. <i>Journal of Geophysical Research</i> , 1999, 104, 17857-17877.	3.3	134
57	Coseismic and postseismic slip associated with the 2010 Maule Earthquake, Chile: Characterizing the Arauco Peninsula barrier effect. <i>Journal of Geophysical Research: Solid Earth</i> , 2013, 118, 3142-3159.	1.4	134
58	Neogene uplift of the Tian Shan Mountains observed in the magnetic record of the Jingou River section (northwest China). <i>Tectonics</i> , 2009, 28, .	1.3	132
59	Sources of shaking and flooding during the Tohoku-Oki earthquake: A mixture of rupture styles. <i>Earth and Planetary Science Letters</i> , 2012, 333-334, 91-100.	1.8	121
60	Seismic behaviour of the Dead Sea fault along Araba valley, Jordan. <i>Geophysical Journal International</i> , 2000, 142, 769-782.	1.0	120
61	Measuring earthquakes from optical satellite images. <i>Applied Optics</i> , 2000, 39, 3486.	2.1	120
62	Modeling deformation induced by seasonal variations of continental water in the Himalaya region: Sensitivity to Earth elastic structure. <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 5097-5113.	1.4	120
63	Investigation of the relationships between basin morphology, tectonic uplift, and denudation from the study of an active fold belt in the Siwalik Hills, central Nepal. <i>Journal of Geophysical Research</i> , 1999, 104, 12779-12796.	3.3	117
64	Seasonal modulation of seismicity in the Himalaya of Nepal. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	112
65	Millenary $M_w > 9.0$ earthquakes required by geodetic strain in the Himalaya. <i>Geophysical Research Letters</i> , 2016, 43, 1118-1123.	1.5	112
66	Co-registration and correlation of aerial photographs for ground deformation measurements. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2009, 64, 551-560.	4.9	110
67	Spatio-temporal evolution of aseismic slip along the Haiyuan fault, China: Implications for fault frictional properties. <i>Earth and Planetary Science Letters</i> , 2013, 377-378, 23-33.	1.8	110
68	Active tectonics in southern Xinjiang, China: Analysis of terrace riser and normal fault scarp degradation along the Hotan-Qira Fault System. <i>Journal of Geophysical Research</i> , 1993, 98, 21773-21807.	3.3	108
69	Horizontal coseismic deformation of the 1999 Chi-Chi earthquake measured from SPOT satellite images: Implications for the seismic cycle along the western foothills of central Taiwan. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	108
70	Early Neogene foreland of the Zagros, implications for the initial closure of the Neo-Tethys and kinematics of crustal shortening. <i>Earth and Planetary Science Letters</i> , 2017, 477, 168-182.	1.8	108
71	Aftershocks driven by afterslip and fluid pressure sweeping through a fault-fracture mesh. <i>Geophysical Research Letters</i> , 2017, 44, 8260-8267.	1.5	106
72	Holocene Hydrological Changes Inferred from Alluvial Stream Entrenchment in North Tian Shan (Northwestern China). <i>Journal of Geology</i> , 2004, 112, 231-249.	0.7	104

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73	The Neogene Xiyu Formation, a diachronous prograding gravel wedge at front of the Tianshan: Climatic and tectonic implications. <i>Earth and Planetary Science Letters</i> , 2009, 287, 298-310.	1.8	103
74	Oblique convergence in the Himalayas of western Nepal deduced from preliminary results of GPS measurements. <i>Geophysical Research Letters</i> , 1999, 26, 1933-1936.	1.5	102
75	Monitoring Earth Surface Dynamics With Optical Imagery. <i>Eos</i> , 2008, 89, 1-2.	0.1	101
76	The 16 April 2016, M7.8 (M7.5) Ecuador earthquake: A quasi-repeat of the 1942 M7.5 earthquake and partial re-rupture of the 1906 M8.6 Colombiaâ€Ecuador earthquake. <i>Earth and Planetary Science Letters</i> , 2016, 454, 248-258.	1.8	99
77	Modeling the 2012 Wharton basin earthquakes offâ€Sumatra: Complete lithospheric failure. <i>Journal of Geophysical Research: Solid Earth</i> , 2013, 118, 3592-3609.	1.4	98
78	Dynamically triggered slip on a splay fault in the <i>M_w</i> 7.8, 2016 Kaikoura (New Tj ETQq0 0 0 rgBT/Overlock 10 Tf 50	1.5	98
79	Kinematic fault slip evolution source models of the 2008 M7.9 Wenchuan earthquake in China from SAR interferometry, GPS and teleseismic analysis and implications for Longmen Shan tectonics. <i>Geophysical Journal International</i> , 2013, 194, 1138-1166.	1.0	97
80	Paleo-erosion rates in Central Asia since 9Ma: A transient increase at the onset of Quaternary glaciations?. <i>Earth and Planetary Science Letters</i> , 2011, 304, 85-92.	1.8	95
81	Co-Registration of Optically Sensed Images and Correlation (COSI-Corr): an operational methodology for ground deformation measurements. , 2007, , .		94
82	Inverting geodetic time series with a principal component analysisâ€based inversion method. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	94
83	Analysis of scarp profiles: Evaluation of errors in morphologic dating. <i>Journal of Geophysical Research</i> , 1993, 98, 6745-6754.	3.3	92
84	Miocene to present kinematics of fault-bend folding across the Huerguosi anticline, northern Tianshan (China), derived from structural, seismic, and magnetostratigraphic data. <i>Geology</i> , 2008, 36, 871.	2.0	92
85	Mountain building in Taiwan: A thermokinematic model. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	91
86	Source model of the 2007 <i>M</i>_w 8.0 Pisco, Peru earthquake: Implications for seismogenic behavior of subduction megathrusts. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	88
87	From the seismic cycle to long-term deformation: linking seismic coupling and Quaternary coastal geomorphology along the Andean megathrust. <i>Tectonics</i> , 2017, 36, 241-256.	1.3	88
88	Tropospheric phase delay in interferometric synthetic aperture radar estimated from meteorological model and multispectral imagery. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	87
89	The Sumatra subduction zone: A case for a locked fault zone extending into the mantle. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	86
90	Threshold for sand mobility on Mars calibrated from seasonal variations of sand flux. <i>Nature Communications</i> , 2014, 5, 5096.	5.8	86

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91	Similar scaling laws for earthquakes and Cascadia slow-slip events. <i>Nature</i> , 2019, 574, 522-526.	13.7	84
92	Gravity anomalies, crustal structure and thermo-mechanical support of the Himalaya of Central Nepal. <i>Geophysical Journal International</i> , 2001, 147, 381-392.	1.0	83
93	Tectonic evolution of a continental collision zone: A thermomechanical numerical model. <i>Tectonics</i> , 2004, 23, n/a-n/a.	1.3	83
94	Kinematics of the Asal Rift (Djibouti) Determined from the Deformation of Fieale Volcano. <i>Science</i> , 1994, 265, 1677-1681.	6.0	82
95	Paleomagnetic study of Mesozoic continental sediments along the northern Tien Shan (China) and heterogeneous strain in central Asia. <i>Journal of Geophysical Research</i> , 1991, 96, 4065-4082.	3.3	81
96	Deformation due to the 17 August 1999 Izmit, Turkey, earthquake measured from SPOT images. <i>Journal of Geophysical Research</i> , 2002, 107, ETG 2-1-ETG 2-6.	3.3	81
97	Quasi-dynamic versus fully dynamic simulations of earthquakes and aseismic slip with and without enhanced coseismic weakening. <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 1986-2004.	1.4	80
98	Spatiotemporal evolution of seismic and aseismic slip on the Longitudinal Valley Fault, Taiwan. <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 5114-5139.	1.4	79
99	Bimodal seismicity in the Himalaya controlled by fault friction and geometry. <i>Nature Communications</i> , 2019, 10, 48.	5.8	78
100	Evidence for postseismic deformation of the lower crust following the 2004 Mw6.0 Parkfield earthquake. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	76
101	Pre- and post-seismic deformation related to the 2015, $M_{w}7.8$ Gorkha earthquake, Nepal. <i>Tectonophysics</i>, 2017, 714-715, 90-106. 	0.9	74
102	In-Flight CCD Distortion Calibration for Pushbroom Satellites Based on Subpixel Correlation. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2008, 46, 2675-2683.	2.7	73
103	Modeling the shortening history of a fault tip fold using structural and geomorphic records of deformation. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	72
104	Cascading and pulse-like ruptures during the 2019 Ridgecrest earthquakes in the Eastern California Shear Zone. <i>Nature Communications</i> , 2020, 11, 22.	5.8	72
105	Low friction along the high slip patch of the 2011 Mw 9.0 Tohoku-Oki earthquake required from the wedge structure and extensional splay faults. <i>Geophysical Research Letters</i> , 2013, 40, 4231-4237.	1.5	71
106	Measuring near field coseismic displacements from SAR images: Application to the Landers Earthquake. <i>Geophysical Research Letters</i> , 1999, 26, 3017-3020.	1.5	70
107	A Probabilistic Approach to Seismic Hazard in Metropolitan France. <i>Bulletin of the Seismological Society of America</i> , 2004, 94, 2137-2163.	1.1	68
108	Megathrust friction determined from mechanical analysis of the forearc in the Maule earthquake area. <i>Earth and Planetary Science Letters</i> , 2013, 381, 92-103.	1.8	68

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109	Toward a Global Horizontal and Vertical Elastic Load Deformation Model Derived from GRACE and GNSS Station Position Time Series. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 3225-3237.	1.4	68
110	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
111	Streaming potential measurements: 2. Relationship between electrical and hydraulic flow patterns from rock samples during deformation. <i>Journal of Geophysical Research</i> , 1999, 104, 17879-17896.	3.3	66
112	The 2001 M_w 7.6 Bhuj earthquake, low fault friction, and the crustal support of plate driving forces in India. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	65
113	Stress transfer and strain rate variations during the seismic cycle. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	64
114	The seismic cycle in the area of the 2011 M_w 9.0 Tohoku-Oki earthquake. <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 4469-4515.	1.4	64
115	Numerical modelling of quaternary deformation and post-rifting displacement in the Asal-Ghoubbet rift (Djibouti, Africa). <i>Earth and Planetary Science Letters</i> , 2005, 239, 352-367.	1.8	61
116	Rupture Process of the 1999 Mw 7.1 Duzce Earthquake from Joint Analysis of SPOT, GPS, InSAR, Strong-Motion, and Teleseismic Data: A Supershear Rupture with Variable Rupture Velocity. <i>Bulletin of the Seismological Society of America</i> , 2010, 100, 267-288.	1.1	61
117	Major temporal variations in shortening rate absorbed along a large active fold of the southeastern Tianshan piedmont (China). <i>Earth and Planetary Science Letters</i> , 2016, 434, 333-348.	1.8	61
118	Investigating the kinematics of mountain building in Taiwan from the spatiotemporal evolution of the foreland basin and western foothills. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	60
119	Landslide velocity, thickness, and rheology from remote sensing: La Clapière landslide, France. <i>Geophysical Research Letters</i> , 2013, 40, 4299-4304.	1.5	60
120	On the use of dislocations to model interseismic strain and stress build-up at intracontinental thrust faults. <i>Geophysical Journal International</i> , 2001, 147, 155-162.	1.0	59
121	Kinematics of fault-related folding derived from a sandbox experiment. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	59
122	Earthquake supercycles on the Mentawai segment of the Sunda megathrust in the seventeenth century and earlier. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 642-676.	1.4	59
123	Geodetic displacements and aftershocks following the 2001 M_w 8.4 Peru earthquake: Implications for the mechanics of the earthquake cycle along subduction zones. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	58
124	Detecting periodicities and declustering in earthquake catalogs using the Schuster spectrum, application to Himalayan seismicity. <i>Earth and Planetary Science Letters</i> , 2013, 377-378, 97-105.	1.8	57
125	Postseismic deformation following the 1999 Chi-Chi earthquake, Taiwan: Implication for lower crust rheology. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	56
126	Time scale bias in erosion rates of glaciated landscapes. <i>Science Advances</i> , 2016, 2, e1600204.	4.7	56

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127	A Global Database of Strongâ€Motion Displacement GNSS Recordings and an Example Application to PGD Scaling. <i>Seismological Research Letters</i> , 2019, 90, 271-279.	0.8	55
128	Testing monsoonal controls on bedrock river incision in the Himalaya and Eastern Tibet with a stochasticâ€threshold stream power model. <i>Journal of Geophysical Research F: Earth Surface</i> , 2017, 122, 1389-1429.	1.0	54
129	Late Quaternary kinematics of the Pallatanga strike-slip fault (Central Ecuador) from topographic measurements of displaced morphological features. <i>Geophysical Journal International</i> , 1993, 115, 905-920.	1.0	53
130	Application of titanium-in-quartz thermobarometry to greenschist facies veins and recrystallized quartzites in the HsÃ¼ehshan range, Taiwan. <i>Solid Earth</i> , 2013, 4, 1-21.	1.2	53
131	Alluvial deposition and lake-level fluctuations forced by Late Quaternary climate change: the Dead Sea case example. <i>Sedimentary Geology</i> , 2003, 162, 119-139.	1.0	52
132	Palaeoclimatic interpretation of a topographic profile across middle Holocene regressive shorelines of Longmu Co (Western Tibet). <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 1996, 120, 93-104.	1.0	51
133	Slip-rate-dependent friction as a universal mechanism for slow slip events. <i>Nature Geoscience</i> , 2020, 13, 705-710.	5.4	51
134	Millennial slip rate of the Longitudinal Valley fault from river terraces: Implications for convergence across the active suture of eastern Taiwan. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	49
135	Aseismic deformation associated with an earthquake swarm in the northern Apennines (Italy). <i>Geophysical Research Letters</i> , 2017, 44, 7706-7714.	1.5	49
136	On the growth of normal faults and the existence of flats and ramps along the El Asnam active fold and thrust system. <i>Tectonics</i> , 1992, 11, 1-11.	1.3	48
137	Autogenic entrenchment patterns and terraces due to coupling with lateral erosion in incising alluvial channels. <i>Journal of Geophysical Research F: Earth Surface</i> , 2017, 122, 335-355.	1.0	48
138	Electric potential variations associated with yearly lake level variations. <i>Geophysical Research Letters</i> , 1998, 25, 1955-1958.	1.5	47
139	Rupture and variable coupling behavior of the Mentawai segment of the Sunda megathrust during the supercycle culmination of 1797 to 1833. <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 7258-7287.	1.4	47
140	Dynamic Processes in Extensional and Compressional Settings â€ Mountain Building: From Earthquakes to Geological Deformation. , 2007, , 377-439.		47
141	Intracontinental subduction and Palaeozoic inheritance of the lithosphere suggested by a teleseismic experiment across the Chinese Tien Shan. <i>Terra Nova</i> , 2002, 14, 18-24.	0.9	46
142	The influence of stress history on the grain size and microstructure of experimentally deformed quartzite. <i>Journal of Structural Geology</i> , 2016, 83, 194-206.	1.0	46
143	Lithological control on the deformation mechanism and the mode of fault slip on the Longitudinal Valley Fault, Taiwan. <i>Tectonophysics</i> , 2014, 632, 48-63.	0.9	45
144	Pulseâ€like partial ruptures and highâ€frequency radiation at creepingâ€locked transition during megathrust earthquakes. <i>Geophysical Research Letters</i> , 2017, 44, 8345-8351.	1.5	45

#	ARTICLE	IF	CITATIONS
145	GPS network monitors the Western Alps' deformation over a five-year period: 1993-1998. <i>Journal of Geodesy</i> , 2002, 76, 63-76.	1.6	44
146	Constraints from rocks in the Taiwan orogen on crustal stress levels and rheology. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	44
147	Spatio-temporal Slip, and Stress Level on the Faults within the Western Foothills of Taiwan: Implications for Fault Frictional Properties. <i>Pure and Applied Geophysics</i> , 2009, 166, 1853-1884.	0.8	43
148	Response of rate-and-state seismogenic faults to harmonic shear-stress perturbations. <i>Geophysical Journal International</i> , 2014, 198, 385-413.	1.0	43
149	Multi-Link InSAR Time Series: Enhancement of a Wrapped Interferometric Database. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2012, 5, 784-794.	2.3	42
150	Denudation outpaced by crustal thickening in the eastern Tianshan. <i>Earth and Planetary Science Letters</i> , 2017, 479, 179-191.	1.8	42
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