

Jean Philippe Avouac

List of Publications by Year in descending order

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243
papers

23,943
citations

5126

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h-index

10129

145
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253
docs citations

253
times ranked

12943
citing authors

#	ARTICLE	IF	CITATIONS
1	The 2021 Mw 7.4 Madoi Earthquake: An Archetype Bilateral Slip-Pulse Rupture Arrested at a Splay Fault. <i>Geophysical Research Letters</i> , 2022, 49, .	1.5	27
2	Understanding the Geodetic Signature of Large Aquifer Systems: Example of the Ozark Plateaus in Central United States. <i>Journal of Geophysical Research: Solid Earth</i> , 2022, 127, .	1.4	9
3	Multi-year measurements of ripple and dune migration on Mars: Implications for the wind regime and sand transport. <i>Icarus</i> , 2022, 380, 114966.	1.1	5
4	Subduction earthquake sequences in a non-linear visco-elasto-plastic megathrust. <i>Geophysical Journal International</i> , 2022, 229, 1098-1121.	1.0	10
5	A new approach for 2-D and 3-D precise measurements of ground deformation from optimized registration and correlation of optical images and ICA-based filtering of image geometry artifacts. <i>Remote Sensing of Environment</i> , 2022, 277, 113038.	4.6	8
6	Linear stability analysis of the condition for vibration during frictional slip. <i>Journal of the Mechanics and Physics of Solids</i> , 2022, 167, 104993.	2.3	2
7	Bookshelf Kinematics and the Effect of Dilatation on Fault Zone Inelastic Deformation: Examples From Optical Image Correlation Measurements of the 2019 Ridgecrest Earthquake Sequence. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2020JB020551.	1.4	27
8	On the relationship between strain rate and seismicity in the India-Asia collision zone: implications for probabilistic seismic hazard. <i>Geophysical Journal International</i> , 2021, 226, 220-245.	1.0	19
9	Ridgecrest aftershocks at Coso suppressed by thermal destressing. <i>Nature</i> , 2021, 595, 70-74.	13.7	24
10	Inferring Airflow Across Martian Dunes From Ripple Patterns and Dynamics. <i>Frontiers in Earth Science</i> , 2021, 9, .	0.8	5
11	Surface Deformation and Seismicity Induced by Poroelastic Stress at the Raft River Geothermal Field, Idaho, USA. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL095108.	1.5	1
12	On the role of thermal stress and fluid pressure in triggering seismic and aseismic faulting at the Brawley Geothermal Field, California.. <i>Geothermics</i> , 2021, 97, 102238.	1.5	15
13	Tectonic tremor as friction-induced inertial vibration. <i>Earth and Planetary Science Letters</i> , 2021, 576, 117238.	1.8	6
14	Coulomb threshold rate-and-state model for fault reactivation: application to induced seismicity at Groningen. <i>Geophysical Journal International</i> , 2021, 228, 2061-2072.	1.0	10
15	Optimization of Optical Image Geometric Modeling, Application to Topography Extraction and Topographic Change Measurements Using PlanetScope and SkySat Imagery. <i>Remote Sensing</i> , 2020, 12, 3418.	1.8	16
16	Structural Evolution of Orogenic Wedges: Interplay Between Erosion and Weak Colliments. <i>Tectonics</i> , 2020, 39, e2020TC006210.	1.3	27
17	Analytical Prediction of Seismicity Rate Due to Tides and Other Oscillating Stresses. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL090827.	1.5	11
18	Slip-rate-dependent friction as a universal mechanism for slow slip events. <i>Nature Geoscience</i> , 2020, 13, 705-710.	5.4	51

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19	Unraveling Scaling Properties of Slow-Slip Events. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087477.	1.5	35
20	A warning against over-interpretation of seasonal signals measured by the Global Navigation Satellite System. <i>Nature Communications</i> , 2020, 11, 1375.	5.8	18
21	Postseismic Deformation Following the 2015 $M_w > 7.8$ Gorkha (Nepal) Earthquake: New GPS Data, Kinematic and Dynamic Models, and the Roles of Afterslip and Viscoelastic Relaxation. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2020JB019852.	1.4	22
22	The predictable chaos of slow earthquakes. <i>Science Advances</i> , 2020, 6, .	4.7	21
23	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
24	Experimental and modeling study of the effect of fault roughness on dynamic frictional sliding. <i>Earth and Planetary Science Letters</i> , 2020, 536, 116133.	1.8	18
25	Craters as sand traps: Dynamics, history, and morphology of modern sand transport in an active martian dune field. <i>Icarus</i> , 2020, 342, 113642.	1.1	10
26	Probabilistic earthquake locations of induced seismicity in the Groningen region, the Netherlands. <i>Geophysical Journal International</i> , 2020, 222, 507-516.	1.0	24
27	Investigating the role of thermal stresses on induced seismicity. , 2020, , .		0
28	The Weitin Fault, Papua New Guinea, Ruptured Twice by $M_w > 8.0$ and $M_w > 7.7$ Earthquakes in 2000 and 2019. <i>Geophysical Research Letters</i> , 2019, 46, 12833-12840.	1.5	3
29	Corrigendum to "Crustal rheology of southern Tibet constrained from lake-induced viscoelastic deformation" [Earth and Planetary Science Letters 506 (2019) 308-322]. <i>Earth and Planetary Science Letters</i> , 2019, 508, 1-3.	1.8	0
30	Reconciling the Long-Term Relationship Between Reservoir Pore Pressure Depletion and Compaction in the Groningen Region. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 6165-6178.	1.4	21
31	A Global Database of Strong-Motion Displacement GNSS Recordings and an Example Application to PGD Scaling. <i>Seismological Research Letters</i> , 2019, 90, 271-279.	0.8	55
32	A Geodesy- and Seismicity-Based Local Earthquake Likelihood Model for Central Los Angeles. <i>Geophysical Research Letters</i> , 2019, 46, 3153-3162.	1.5	18
33	Stabilization of fault slip by fluid injection in the laboratory and in situ. <i>Science Advances</i> , 2019, 5, eaau4065.	4.7	149
34	Triggering of the Mw 7.2 Hawaii Earthquake of 4 May 2018 by a Dike Intrusion. <i>Geophysical Research Letters</i> , 2019, 46, 2503-2510.	1.5	30
35	Similar scaling laws for earthquakes and Cascadia slow-slip events. <i>Nature</i> , 2019, 574, 522-526.	13.7	84
36	Crustal rheology of southern Tibet constrained from lake-induced viscoelastic deformation. <i>Earth and Planetary Science Letters</i> , 2019, 506, 308-322.	1.8	21

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37	Bimodal seismicity in the Himalaya controlled by fault friction and geometry. <i>Nature Communications</i> , 2019, 10, 48.	5.8	78
38	Interseismic Coupling and Slow Slip Events on the Cascadia Megathrust. <i>Pure and Applied Geophysics</i> , 2019, 176, 3867-3891.	0.8	39
39	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
40	Late Pleistocene acceleration of deformation across the northern Tianshan piedmont (China) evidenced from the morpho-tectonic evolution of the Dushanzi anticline. <i>Tectonophysics</i> , 2018, 730, 132-140.	0.9	27
41	Constraints on Transient Viscoelastic Rheology of the Asthenosphere From Seasonal Deformation. <i>Geophysical Research Letters</i> , 2018, 45, 2328-2338.	1.5	24
42	Lag and mixing during sediment transfer across the Tian Shan piedmont caused by climate-driven aggradation-incision cycles. <i>Basin Research</i> , 2018, 30, 613-635.	1.3	39
43	Seismic and Aseismic Moment Budget and Implication for the Seismic Potential of the Parkfield Segment of the San Andreas Fault. <i>Bulletin of the Seismological Society of America</i> , 2018, 108, 19-38.	1.1	25
44	Contrasting river incision in north and south Tian Shan piedmonts due to variable glacial imprint in mountain valleys. <i>Geology</i> , 2018, 46, 659-662.	2.0	27
45	Identification and Extraction of Seasonal Geodetic Signals Due to Surface Load Variations. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 11,031.	1.4	25
46	Interseismic Strain Accumulation on Faults Beneath Los Angeles, California. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 7126.	1.4	11
47	Comparing dune migration measured from remote sensing with sand flux prediction based on weather data and model, a test case in Qatar. <i>Earth and Planetary Science Letters</i> , 2018, 497, 12-21.	1.8	28
48	Pre- and post-seismic deformation related to the 2015, $M_{7.8}$ Gorkha earthquake, Nepal. <i>Tectonophysics</i> , 2017, 714-715, 90-106.	0.9	74
49	Corrigendum to "The 16 April 2016, $M_{7.8}$ (M7.5) Ecuador earthquake: A quasi-repeat of the 1942 $M_{7.5}$ earthquake and partial re-rupture of the 1906 $M_{8.6}$ Colombia-Ecuador earthquake" [Earth Planet. Sci. Lett. 454 (2016) 248-258]. <i>Earth and Planetary Science Letters</i> , 2017, 458, 442-443.	1.8	1
50	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
51	Locally and remotely triggered aseismic slip on the central San Jacinto Fault near Anza, CA, from joint inversion of seismicity and strainmeter data. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 3033-3061.	1.4	31
52	Testing monsoonal controls on bedrock river incision in the Himalaya and Eastern Tibet with a stochastic-threshold stream power model. <i>Journal of Geophysical Research F: Earth Surface</i> , 2017, 122, 1389-1429.	1.0	54
53	Flexural bending of the Zagros foreland basin. <i>Geophysical Journal International</i> , 2017, 210, 1659-1680.	1.0	34
54	Rate- and state friction properties of the Longitudinal Valley Fault from kinematic and dynamic modeling of seismic and aseismic slip. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 3115-3137.	1.4	33

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55	Dynamically triggered slip on a splay fault in the <i>M_w</i> 7.8, 2016 Kaikoura (New Tj ETQq1 1 0.784314 rgBT /Overlock	1.5	98
56	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
57	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
58	Aftershocks driven by afterslip and fluid pressure sweeping through a faultâ€¢fracture mesh. <i>Geophysical Research Letters</i> , 2017, 44, 8260-8267.	1.5	106
59	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
60	Ductile shearing to brittle thrusting along the Nepal Himalaya: Linking Miocene channel flow and critical wedge tectonics to 25th April 2015 Gorkha earthquake. <i>Tectonophysics</i> , 2017, 714-715, 117-124.	0.9	21
61	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
62	Aseismic deformation associated with an earthquake swarm in the northern Apennines (Italy). <i>Geophysical Research Letters</i> , 2017, 44, 7706-7714.	1.5	49
63	Determination of Mmax from Background Seismicity and Moment Conservation. <i>Bulletin of the Seismological Society of America</i> , 2017, 107, 2578-2596.	1.1	12
64	Denudation outpaced by crustal thickening in the eastern Tianshan. <i>Earth and Planetary Science Letters</i> , 2017, 479, 179-191.	1.8	42
65	Origin and time evolution of subduction polarity reversal from plate kinematics of Southeast Asia. <i>Geology</i> , 2016, 44, 659-662.	2.0	31
66	Postseismic relocking of the subduction megathrust following the 2007 Pisco, Peru, earthquake. <i>Journal of Geophysical Research: Solid Earth</i> , 2016, 121, 3978-3995.	1.4	35
67	Millenary <i>M_w</i> >â€¢9.0 earthquakes required by geodetic strain in the Himalaya. <i>Geophysical Research Letters</i> , 2016, 43, 1118-1123.	1.5	112
68	Climate-change versus landslide origin of fill terraces in a rapidly eroding bedrock landscape: San Gabriel River, California. <i>Bulletin of the Geological Society of America</i> , 2016, 128, 1228-1248.	1.6	19
69	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
70	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
71	Separating climateâ€¢induced mass transfers and instrumental effects from tectonic signal in repeated absolute gravity measurements. <i>Geophysical Research Letters</i> , 2016, 43, 4313-4320.	1.5	24
72	Time scale bias in erosion rates of glaciated landscapes. <i>Science Advances</i> , 2016, 2, e1600204.	4.7	56

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73	On the influence of the asthenospheric flow on the tectonics and topography at a collision-subduction transition zones: Comparison with the eastern Tibetan margin. <i>Journal of Geodynamics</i> , 2016, 100, 184-197.	0.7	36
74	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
75	Himalayan megathrust geometry and relation to topography revealed by the Gorkha earthquake. <i>Nature Geoscience</i> , 2016, 9, 174-180.	5.4	302
76	Interseismic coupling on the main Himalayan thrust. <i>Geophysical Research Letters</i> , 2015, 42, 5828-5837.	1.5	234
77	Mountain Building: From Earthquakes to Geologic Deformation. , 2015, , 381-432.		33
78	Seismicity triggered by fluid injectionâ€“induced aseismic slip. <i>Science</i> , 2015, 348, 1224-1226.	6.0	516
79	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
80	Slip pulse and resonance of the Kathmandu basin during the 2015 Gorkha earthquake, Nepal. <i>Science</i> , 2015, 349, 1091-1095.	6.0	287
81	Lower edge of locked Main Himalayan Thrust unzipped by the 2015 Gorkha earthquake. <i>Nature Geoscience</i> , 2015, 8, 708-711.	5.4	405
82	The 2012 Brawley swarm triggered by injection-induced aseismic slip. <i>Earth and Planetary Science Letters</i> , 2015, 422, 115-125.	1.8	141
83	Geodetic Imaging Using Optical Systems. , 2015, , 387-424.		16
84	Numerical modeling of long-term earthquake sequences on the NE Japan megathrust: Comparison with observations and implications for fault friction. <i>Earth and Planetary Science Letters</i> , 2015, 419, 187-198.	1.8	31
85	Postseismic Deformation Following the 2010 $M = 7.2$ El Mayor-Cucapah Earthquake: Observations, Kinematic Inversions, and Dynamic Models. <i>Pure and Applied Geophysics</i> , 2015, 172, 1305-1358.	0.8	40
86	Erosion by an Alpine glacier. <i>Science</i> , 2015, 350, 193-195.	6.0	138
87	Response to Comment on â€œTectonic control of Yarlung Tsangpo Gorge revealed by a buried canyon in Southern Tibetâ€. <i>Science</i> , 2015, 349, 799-799.	6.0	16
88	Static Laboratory Earthquake Measurements with the Digital Image Correlation Method. <i>Experimental Mechanics</i> , 2015, 55, 77-94.	1.1	25
89	Threshold for sand mobility on Mars calibrated from seasonal variations of sand flux. <i>Nature Communications</i> , 2014, 5, 5096.	5.8	86
90	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

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91	Response of rate-and-state seismogenic faults to harmonic shear-stress perturbations. <i>Geophysical Journal International</i> , 2014, 198, 385-413.	1.0	43
92	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
93	Tectonic control of Yarlung Tsangpo Gorge revealed by a buried canyon in Southern Tibet. <i>Science</i> , 2014, 346, 978-981.	6.0	171
94	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
95	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
96	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
97	The seismic cycle in the area of the 2011 <i>M_w</i> 9.0 Tohoku-Oki earthquake. <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 4469-4515.	1.4	64
98	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
99	Coseismic thrusting and folding in the 1999 <i>M_w</i> 7.6 Chi-Chi earthquake: A high-resolution approach by aerial photos taken from Tsaotun, central Taiwan. <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 645-660.	1.4	8
100	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
101	A Geostationary Optical Seismometer, Proof of Concept. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2013, 51, 695-703.	2.7	11
102	Kinematic Inversion of Physically Plausible Earthquake Source Models Obtained from Dynamic Rupture Simulations. <i>Bulletin of the Seismological Society of America</i> , 2013, 103, 2621-2644.	1.1	35
103	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
104	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
105	Late Pleistocene glacial advances in the western Tibet interior. <i>Earth and Planetary Science Letters</i> , 2013, 381, 210-221.	1.8	32
106	New constraints on dike injection and fault slip during the 1975-1984 Krafla rift crisis, NE Iceland. <i>Journal of Geophysical Research: Solid Earth</i> , 2013, 118, 3707-3727.	1.4	30
107	Spatially variable fault friction derived from dynamic modeling of aseismic afterslip due to the 2004 Parkfield earthquake. <i>Journal of Geophysical Research: Solid Earth</i> , 2013, 118, 3431-3447.	1.4	15
108	Shear heating not a cause of inverted metamorphism. <i>Geology</i> , 2013, 41, 899-902.	2.0	15

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109	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
110	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
111	Application of titanium-in-quartz thermobarometry to greenschist facies veins and recrystallized quartzites in the HsÅ¼ehshan range, Taiwan. <i>Solid Earth</i> , 2013, 4, 1-21.	1.2	53
112	Landslide velocity, thickness, and rheology from remote sensing: La ClapiÃre landslide, France. <i>Geophysical Research Letters</i> , 2013, 40, 4299-4304.	1.5	60
113	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
114	Low friction along the high slip patch of the 2011 Mw 9.0 TohokuâOki earthquake required from the wedge structure and extensional splay faults. <i>Geophysical Research Letters</i> , 2013, 40, 4231-4237.	1.5	71
115	Human-induced shaking. <i>Nature Geoscience</i> , 2012, 5, 763-764.	5.4	16
116	Under the Hood of the Earthquake Machine: Toward Predictive Modeling of the Seismic Cycle. <i>Science</i> , 2012, 336, 707-710.	6.0	212
117	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
118	Postseismic deformation following the 1999 ChiâChi earthquake, Taiwan: Implication for lowerâcrust rheology. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	56
119	Contrast Invariant and Affine sub-pixel Optical Flow. , 2012, , .		2
120	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
121	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
122	The role of velocityâneutral creep on the modulation of tectonic tremor activity by periodic loading. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	22
123	Deformation during the 1975â1984 Krafla rifting crisis, NE Iceland, measured from historical optical imagery. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	38
124	Constraints from rocks in the Taiwan orogen on crustal stress levels and rheology. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	44
125	Anomalously steep dips of earthquakes in the 2011 Tohoku-Oki source region and possible explanations. <i>Earth and Planetary Science Letters</i> , 2012, 353-354, 121-133.	1.8	39
126	Earth-like sand fluxes on Mars. <i>Nature</i> , 2012, 485, 339-342.	13.7	219

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127	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
128	The 2001 <i>M</i> _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
129	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
130	Interseismic coupling and seismic potential along the Central Andes subduction zone. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	174
131	Evidence for mechanical coupling and strong Indian lower crust beneath southern Tibet. <i>Nature</i> , 2011, 472, 79-81.	13.7	144
132	Multi-Link SAR interferograms: Enhancement of a wrapped interferometric database. , 2011, , .		1
133	The lessons of Tohoku-Oki. <i>Nature</i> , 2011, 475, 300-300.	13.7	27
134	Superficial simplicity of the 2010 El Mayorâ€Cucapah earthquake of Baja California in Mexico. <i>Nature Geoscience</i> , 2011, 4, 615-618.	5.4	225
135	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
136	Seismic and aseismic slip on the Central Peru megathrust. <i>Nature</i> , 2010, 465, 78-81.	13.7	241
137	Towards inferring earthquake patterns from geodetic observations of interseismic coupling. <i>Nature Geoscience</i> , 2010, 3, 363-369.	5.4	294
138	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
139	Inverting geodetic time series with a principal component analysisâ€Cbased inversion method. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	94
140	Indiaâ€CAsia 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
141	PCAIM joint inversion of InSAR and groundâ€Cbased geodetic time series: Application to monitoring magmatic inflation beneath the Long Valley Caldera. <i>Geophysical Research Letters</i> , 2010, 37, .	1.5	26
142	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
143	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
144	Investigating tropospheric effects and seasonal position variations in GPS and DORIS time-series from the Nepal Himalaya. <i>Geophysical Journal International</i> , 2009, 178, 1246-1259.	1.0	29

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146	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
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