

Kaj Johnson

List of Publications by Year in descending order

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42
papers

2,221
citations

236925

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265206

42
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all docs

44
docs citations

44
times ranked

2076
citing authors

#	ARTICLE	IF	CITATIONS
1	Uniform California Earthquake Rupture Forecast, Version 3 (UCERF3)–The Time-Independent Model. Bulletin of the Seismological Society of America, 2014, 104, 1122-1180.	2.3	424
2	A Fully Bayesian Inversion for Spatial Distribution of Fault Slip with Objective Smoothing. Bulletin of the Seismological Society of America, 2008, 98, 1128-1146.	2.3	141
3	Frictional Properties on the San Andreas Fault near Parkfield, California, Inferred from Models of Afterslip following the 2004 Earthquake. Bulletin of the Seismological Society of America, 2006, 96, S321-S338.	2.3	124
4	Fault geometry and slip distribution of the 1999 Chi-Chi, Taiwan Earthquake imaged from inversion of GPS data. Geophysical Research Letters, 2001, 28, 2285-2288.	4.0	122
5	A decadal-scale deformation transient prior to the 2011 <i>M_w</i> 9.0 Tohoku-oki earthquake. Geophysical Research Letters, 2014, 41, 4486-4494.	4.0	122
6	Modern vertical deformation rates and mountain building in Taiwan from precise leveling and continuous GPS observations, 2000–2008. Journal of Geophysical Research, 2011, 116, .	3.3	94
7	Reconciling geologic and geodetic model fault slip-rate discrepancies in Southern California: Consideration of nonsteady mantle flow and lower crustal fault creep. Geology, 2011, 39, 627-630.	4.4	81
8	Viscoelastic earthquake cycle models with deep stress-driven creep along the San Andreas fault system. Journal of Geophysical Research, 2004, 109, .	3.3	74
9	Coupled afterslip and viscoelastic flow following the 2002 Denali Fault, Alaska earthquake. Geophysical Journal International, 2009, 176, 670-682.	2.4	69
10	Long-term acceleration of aseismic slip preceding the <i>M_w</i> 9 Tohoku-oki earthquake: Constraints from repeating earthquakes. Geophysical Research Letters, 2015, 42, 9717-9725.	4.0	65
11	Influence of lithosphere viscosity structure on estimates of fault slip rate in the Mojave region of the San Andreas fault system. Journal of Geophysical Research, 2007, 112, .	3.3	61
12	Challenging the rate-state asperity model: Afterslip following the 2011 M9 Tohoku-oki, Japan, earthquake. Geophysical Research Letters, 2012, 39, .	4.0	61
13	Fault coupling and potential for earthquakes on the creeping section of the central San Andreas Fault. Journal of Geophysical Research: Solid Earth, 2014, 119, 4414-4428.	3.4	55
14	Imaging the ramp-collement geometry of the Chelungpu fault using coseismic GPS displacements from the 1999 Chi-Chi, Taiwan earthquake. Tectonophysics, 2004, 378, 123-139.	2.2	52
15	Slip rates and off-fault deformation in Southern California inferred from GPS data and models. Journal of Geophysical Research: Solid Earth, 2013, 118, 5643-5664.	3.4	51
16	Present-day kinematics of active mountain building in Taiwan from GPS observations during 1995–2005. Journal of Geophysical Research, 2011, 116, .	3.3	50
17	Fault friction parameters inferred from the early stages of afterslip following the 2003 Tokachi-oki earthquake. Journal of Geophysical Research, 2009, 114, .	3.3	42
18	New methods for estimating the spatial distribution of locked asperities and stress-driven interseismic creep on faults with application to the San Francisco Bay Area, California. Journal of Geophysical Research, 2010, 115, .	3.3	41

#	ARTICLE	IF	CITATIONS
19	Inferred fault geometry and slip distribution of the 2010 Jiashian, Taiwan, earthquake is consistent with a thick-skinned deformation model. <i>Earth and Planetary Science Letters</i> , 2011, 301, 78-86.	4.4	40
20	Mixed linear-non-linear inversion of crustal deformation data: Bayesian inference of model, weighting and regularization parameters. <i>Geophysical Journal International</i> , 2010, , .	2.4	39
21	A viscoelastic earthquake cycle model for Taiwan. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	38
22	Strain accumulation across strike-slip faults: Investigation of the influence of laterally varying lithospheric properties. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	38
23	Mechanical analysis of the geometry of forced-folds. <i>Journal of Structural Geology</i> , 2002, 24, 401-410.	2.3	36
24	Growth of Fault-Cored Anticlines by Flexural Slip Folding: Analysis by Boundary Element Modeling. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 2426-2447.	3.4	34
25	Insights into active tectonics of eastern Taiwan from analyses of geodetic and geologic data. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	29
26	Inversion for absolute deviatoric crustal stress using focal mechanisms and coseismic stress changes: The 2011 <i>M</i> ₉ Tohoku-Ōki, Japan, earthquake. <i>Journal of Geophysical Research: Solid Earth</i> , 2013, 118, 5516-5529.	3.4	25
27	Uplift of the Western Transverse Ranges and Ventura Area of Southern California: A Four-Technique Geodetic Study Combining GPS, InSAR, Leveling, and Tide Gauges. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 836-858.	3.4	25
28	Small interseismic asperities and widespread aseismic creep on the northern Japan subduction interface. <i>Geophysical Research Letters</i> , 2016, 43, 135-143.	4.0	23
29	Bayesian Inversion for a Stress-Driven Model of Afterslip and Viscoelastic Relaxation: Method and Application to Postseismic Deformation Following the 2011 <i>M</i> _{9.0} Tohoku-Ōki Earthquake. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2020JB021620.	3.4	23
30	Active back thrust in the eastern Taiwan suture revealed by the 2013 Ruesuei earthquake: Evidence for a doubly vergent orogenic wedge?. <i>Geophysical Research Letters</i> , 2014, 41, 3464-3470.	4.0	22
31	Reconciling seismic and geodetic models of the 1989 Kilauea south flank earthquake. <i>Geophysical Research Letters</i> , 2002, 29, 19-1-19-4.	4.0	17
32	Simulations of tremor-related creep reveal a weak crustal root of the San Andreas Fault. <i>Geophysical Research Letters</i> , 2013, 40, 1300-1305.	4.0	17
33	Is stress accumulating on the creeping section of the San Andreas fault?. <i>Geophysical Research Letters</i> , 2013, 40, 6101-6105.	4.0	16
34	Capturing 50 Years of Postseismic Mantle Flow at Nankai Subduction Zone. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 10,091.	3.4	14
35	A Physical Model for Interseismic Erosion of Locked Fault Asperities. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 8326-8346.	3.4	11
36	Spatially Varying Stress State in the Central U.S. From Bayesian Inversion of Focal Mechanism and In Situ Maximum Horizontal Stress Orientation Data. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 3871-3890.	3.4	9

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37	New Insights Into the Slip Budget at Nankai: An Iterative Approach to Estimate Coseismic Slip and Afterslip. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, 2020JB020833.	3.4	8
38	A Unified Framework for Earthquake Sequences and the Growth of Geological Structure in Foldâ€Thrust Belts. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2021JB022045.	3.4	8
39	Presentâ€Day and Longâ€Term Uplift Across the Western Transverse Ranges of Southern California. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2020JB019672.	3.4	7
40	Bounding the Moment Deficit Rate on Crustal Faults Using Geodetic Data: Application to Southern California. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 11,048.	3.4	5
41	A Fault-Cored Anticline Boundary Element Model Incorporating the Combined Fault Slip and Buckling Mechanisms. <i>Terrestrial, Atmospheric and Oceanic Sciences</i> , 2016, 27, 073.	0.6	5
42	Crustal Stress State in Taiwan: Moderately Strong Crust Supporting Gravitational and Flexural Loading. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2020JB019530.	3.4	3