Kaj Johnson

List of Publications by Year
in descending order

42	2,221	236925 25	265206 42
papers	citations	h-index	g-index

44	44	44	2076
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	New Insights Into the Slip Budget at Nankai: An Iterative Approach to Estimate Coseismic Slip and Afterslip. Journal of Geophysical Research: Solid Earth, 2021, 126, 2020JB020833.	3.4	8
2	Bayesian Inversion for a Stressâ€Driven Model of Afterslip and Viscoelastic Relaxation: Method and Application to Postseismic Deformation Following the 2011 M_W 9.0 Tohokuâ€Oki Earthquake. Journal of Geophysical Research: Solid Earth, 2021, 126, e2020JB021620.	3.4	23
3	A Unified Framework for Earthquake Sequences and the Growth of Geological Structure in Foldâ€Thrust Belts. Journal of Geophysical Research: Solid Earth, 2021, 126, e2021JB022045.	3.4	8
4	Crustal Stress State in Taiwan: Moderately Strong Crust Supporting Gravitational and Flexural Loading. Journal of Geophysical Research: Solid Earth, 2020, 125, e2020JB019530.	3.4	3
5	Presentâ€Day and Longâ€Term Uplift Across the Western Transverse Ranges of Southern California. Journal of Geophysical Research: Solid Earth, 2020, 125, e2020JB019672.	3.4	7
6	Growth of Faultâ€Cored Anticlines by Flexural Slip Folding: Analysis by Boundary Element Modeling. Journal of Geophysical Research: Solid Earth, 2018, 123, 2426-2447.	3.4	34
7	Spatially Varying Stress State in the Central U.S. From Bayesian Inversion of Focal Mechanism and In Situ Maximum Horizontal Stress Orientation Data. Journal of Geophysical Research: Solid Earth, 2018, 123, 3871-3890.	3.4	9
8	Uplift of the Western Transverse Ranges and Ventura Area of Southern California: A Fourâ€Technique Geodetic Study Combining GPS, InSAR, Leveling, and Tide Gauges. Journal of Geophysical Research: Solid Earth, 2018, 123, 836-858.	3.4	25
9	Bounding the Moment Deficit Rate on Crustal Faults Using Geodetic Data: Application to Southern California. Journal of Geophysical Research: Solid Earth, 2018, 123, 11,048.	3.4	5
10	Capturing 50ÂYears of Postseismic Mantle Flow at Nankai Subduction Zone. Journal of Geophysical Research: Solid Earth, 2018, 123, 10,091.	3.4	14
11	A Physical Model for Interseismic Erosion of Locked Fault Asperities. Journal of Geophysical Research: Solid Earth, 2017, 122, 8326-8346.	3.4	11
12	Small interseismic asperities and widespread aseismic creep on the northern Japan subduction interface. Geophysical Research Letters, 2016, 43, 135-143.	4.0	23
13	A Fault-Cored Anticline Boundary Element Model Incorporating the Combined Fault Slip and Buckling Mechanisms. Terrestrial, Atmospheric and Oceanic Sciences, 2016, 27, 073.	0.6	5
14	Longâ€term acceleration of aseismic slip preceding the M_w 9 Tohokuâ€oki earthquake: Constraints from repeating earthquakes. Geophysical Research Letters, 2015, 42, 9717-9725.	4.0	65
15	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
16	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
17	Active back thrust in the eastern Taiwan suture revealed by the 2013 Rueisuei earthquake: Evidence for a doubly vergent orogenic wedge?. Geophysical Research Letters, 2014, 41, 3464-3470.	4.0	22
18	A decadalâ€scale deformation transient prior to the 2011 M_w 9.0 Tohokuâ€oki earthquake. Geophysical Research Letters, 2014, 41, 4486-4494.	4.0	122

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19	Simulations of tremorâ€related creep reveal a weak crustal root of the San Andreas Fault. Geophysical Research Letters, 2013, 40, 1300-1305.	4.0	17
20	Is stress accumulating on the creeping section of the San Andreas fault?. Geophysical Research Letters, 2013, 40, 6101-6105.	4.0	16
21	Slip rates and offâ€fault deformation in Southern California inferred from GPS data and models. Journal of Geophysical Research: Solid Earth, 2013, 118, 5643-5664.	3.4	51
22	Inversion for absolute deviatoric crustal stress using focal mechanisms and coseismic stress changes: The 2011 M9 Tohokuâ€oki, Japan, earthquake. Journal of Geophysical Research: Solid Earth, 2013, 118, 5516-5529.	3.4	25
23	Strain accumulation across strikeâ€slip faults: Investigation of the influence of laterally varying lithospheric properties. Journal of Geophysical Research, 2012, 117, .	3.3	38
24	Challenging the rateâ€state asperity model: Afterslip following the 2011 M9 Tohokuâ€oki, Japan, earthquake. Geophysical Research Letters, 2012, 39, .	4.0	61
25	Present-day kinematics of active mountain building in Taiwan from GPS observations during 1995â€“2005. Journal of Geophysical Research, 2011, 116, .	3.3	50
26	Modern vertical deformation rates and mountain building in Taiwan from precise leveling and continuous GPS observations, 2000â€“2008. Journal of Geophysical Research, 2011, 116, .	3.3	94
27	Inferred fault geometry and slip distribution of the 2010 Jiashian, Taiwan, earthquake is consistent with a thick-skinned deformation model. Earth and Planetary Science Letters, 2011, 301, 78-86.	4.4	40
28	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
29	Mixed linear-non-linear inversion of crustal deformation data: Bayesian inference of model, weighting and regularization parameters. Geophysical Journal International, 2010, , .	2.4	39
30	New methods for estimating the spatial distribution of locked asperities and stressâ€driven interseismic creep on faults with application to the San Francisco Bay Area, California. Journal of Geophysical Research, 2010, 115, .	3.3	41
31	Insights into active tectonics of eastern Taiwan from analyses of geodetic and geologic data. Journal of Geophysical Research, 2010, 115, .	3.3	29
32	Coupled afterslip and viscoelastic flow following the 2002 Denali Fault, Alaska earthquake. Geophysical Journal International, 2009, 176, 670-682.	2.4	69
33	Fault friction parameters inferred from the early stages of afterslip following the 2003 Tokachiâ€oki earthquake. Journal of Geophysical Research, 2009, 114, .	3.3	42
34	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
35	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
36	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

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37	A viscoelastic earthquake cycle model for Taiwan. Journal of Geophysical Research, 2005, 110, .	3.3	38
38	Viscoelastic earthquake cycle models with deep stress-driven creep along the San Andreas fault system. Journal of Geophysical Research, 2004, 109, .	3.3	74
39	Imaging the rampâ€“dÃ©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
40	Reconciling seismic and geodetic models of the 1989 Kilauea south flank earthquake. Geophysical Research Letters, 2002, 29, 19-1-19-4.	4.0	17
41	Mechanical analysis of the geometry of forced-folds. Journal of Structural Geology, 2002, 24, 401-410.	2.3	36
42	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