

Naoyuki Kato

List of Publications by Year in descending order

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51
papers

1,326
citations

430442

18
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344852

36
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all docs

51
docs citations

51
times ranked

884
citing authors

#	ARTICLE	IF	CITATIONS
1	Propagation of a precursory detachment front along a seismogenic plate interface in a rate- and state friction model of earthquake cycles. <i>Geophysical Journal International</i> , 2021, 228, 17-38.	1.0	2
2	Complexity in the Earthquake Cycle Increases with the Number of Interacting Patches. <i>Pure and Applied Geophysics</i> , 2020, 177, 4657-4676.	0.8	2
3	Earthquake triggering model based on normal-stress-dependent Nagata law: application to the 2016 Mie offshore earthquake. <i>Earth, Planets and Space</i> , 2020, 72, .	0.9	3
4	Fracture energies at the rupture nucleation points of large strike-slip earthquakes on the Xianshuihe fault, southwestern China. <i>Journal of Asian Earth Sciences</i> , 2017, 134, 55-62.	1.0	4
5	Earthquake Cycles in a Model of Interacting Fault Patches: Complex Behavior at Transition from Seismic to Aseismic Slip. <i>Bulletin of the Seismological Society of America</i> , 2016, 106, 1772-1787.	1.1	12
6	Forecast experiment on the Kamaishi repeating earthquakes based on numerical simulations using friction law. <i>Earth, Planets and Space</i> , 2016, 68, .	0.9	2
7	Numerical simulation of the Kamaishi repeating earthquake sequence: Change in magnitude due to the 2011 Tohoku-oki earthquake. <i>Tectonophysics</i> , 2015, 651-652, 44-57.	0.9	5
8	Deterministic chaos in a simulated sequence of slip events on a single isolated asperity. <i>Geophysical Journal International</i> , 2014, 198, 727-736.	1.0	18
9	Complex Earthquake Cycle Simulations Using a Two-Degree-of-Freedom Spring-Block Model with a Rate- and State-Friction Law. <i>Pure and Applied Geophysics</i> , 2013, 170, 745-765.	0.8	39
10	Are the frictional properties of creeping faults persistent? Evidence from rapid afterslip following the 2011 Tohoku-oki earthquake. <i>Geophysical Research Letters</i> , 2013, 40, 3613-3617.	1.5	32
11	Recovery of plate coupling at a ruptured asperity. <i>Journal of Geophysical Research: Solid Earth</i> , 2013, 118, 2154-2163.	1.4	1
12	Application of Vector-Type Super Computer to Understanding Giant Earthquakes and Aftershocks on Subduction Plate Boundaries. , 2013, , 67-80.		0
13	Megaquake cycle at the Tohoku subduction zone with thermal fluid pressurization near the surface. <i>Earth and Planetary Science Letters</i> , 2012, 325-326, 21-26.	1.8	31
14	Dependence of earthquake stress drop on critical slip-weakening distance. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	24
15	Fracture energies at the rupture nucleation points of large interplate earthquakes. <i>Earth and Planetary Science Letters</i> , 2012, 353-354, 190-197.	1.8	14
16	Statistical physics of fracture, friction, and earthquakes. <i>Reviews of Modern Physics</i> , 2012, 84, 839-884.	16.4	168
17	A shallow strong patch model for the 2011 great Tohoku-oki earthquake: A numerical simulation. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	35
18	Pore pressure distribution along plate interface that causes a shallow asperity of the 2011 great Tohoku-oki earthquake. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	20

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19	Assessment of the finite element solutions for 3D spontaneous rupture using GeoFEM. <i>Earth, Planets and Space</i> , 2011, 63, 1119-1131.	0.9	1
20	Consideration on the 2011 off the Pacific Coast of Tohoku Earthquake and the 2004 Sumatra Earthquake. JAMSTEC Report of Research and Development, 2011, 13, 17-33.	0.2	0
21	Character of slip and stress due to interaction between fault segments along the dip direction of a subduction zone. <i>Journal of Geodynamics</i> , 2009, 48, 55-67.	0.7	9
22	A possible explanation for difference in stress drop between intraplate and interplate earthquakes. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	19
23	Conditions for Consecutive Rupture of Adjacent Asperities. <i>Journal of Disaster Research</i> , 2009, 4, 106-110.	0.4	0
24	Numerical simulation of recurrence of asperity rupture in the Sanriku region, northeastern Japan. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	34
25	A synthetic seismicity model for the Xianshuihe fault, southwestern China: simulation using a rate- and state-dependent friction law. <i>Geophysical Journal International</i> , 2007, 169, 286-300.	1.0	29
26	Expansion of aftershock areas caused by propagating post-seismic sliding. <i>Geophysical Journal International</i> , 2007, 168, 797-808.	1.0	65
27	A possible effect of an intermediate depth intraslab earthquake on seismic cycles of interplate earthquakes at a subduction zone. <i>Earth, Planets and Space</i> , 2004, 56, 553-561.	0.9	3
28	Interpretation of various slip modes on a plate boundary based on laboratory and numerical experiments. <i>Earth, Planets and Space</i> , 2004, 56, 795-801.	0.9	3
29	Detection of a slow slip event from small signal in GPS data. <i>Geophysical Research Letters</i> , 2004, 31, n/a-n/a.	1.5	11
30	Interaction of slip on asperities: Numerical simulation of seismic cycles on a two-dimensional planar fault with nonuniform frictional property. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	85
31	A numerical simulation of earthquake cycles along the Nankai Trough in southwest Japan: lateral variation in frictional property due to the slab geometry controls the nucleation position. <i>Earth and Planetary Science Letters</i> , 2004, 228, 215-226.	1.8	119
32	Episodic aseismic slip in a two-degree-of-freedom block-spring model. <i>Geophysical Research Letters</i> , 2003, 30, .	1.5	66
33	Hypocenter depths of large interplate earthquakes and their relation to seismic coupling. <i>Earth and Planetary Science Letters</i> , 2003, 210, 53-63.	1.8	16
34	A possible model for large preseismic slip on a deeper extension of a seismic rupture plane. <i>Earth and Planetary Science Letters</i> , 2003, 216, 17-25.	1.8	55
35	Materials Science and Seismological Approaches to Understanding Seismogenic Processes Estimation of Frictional Constitutive Parameters on a Plate Boundary: Earthquakes at Asperities off Sanriku, Northeastern Japan. <i>Journal of Geography (Chigaku Zasshi)</i> , 2003, 112, 857-868.	0.1	2
36	Seismic cycle on a strike-slip fault with rate- and state-dependent strength in an elastic layer overlying a viscoelastic half-space. <i>Earth, Planets and Space</i> , 2002, 54, 1077-1083.	0.9	19

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37	A composite rate- and state-dependent law for rock friction. <i>Geophysical Research Letters</i> , 2001, 28, 1103-1106.	1.5	117
38	Simulation of seismic cycles of buried intersecting reverse faults. <i>Journal of Geophysical Research</i> , 2001, 106, 4221-4232.	3.3	7
39	Preparations for the Coming Large Earthquakes at the Nankai Trough. Numerical Simulation Study on Recent Changes in Crustal Deformation and Seismicity in the Tokai Area, Central Japan.. <i>Journal of Geography (Chigaku Zasshi)</i> , 2001, 110, 557-565.	0.1	4
40	Interaction of parallel strike-slip faults and a characteristic distance in the spatial distribution of active faults. <i>Geophysical Journal International</i> , 2001, 144, 157-164.	1.0	9
41	Effect of frictional heating on pre-seismic sliding: a numerical simulation using a rate-, state- and temperature-dependent friction law. <i>Geophysical Journal International</i> , 2001, 147, 183-188.	1.0	14
42	Effect of a large outer rise earthquake on seismic cycles of interplate earthquakes: A model study. <i>Journal of Geophysical Research</i> , 2000, 105, 653-662.	3.3	13
43	Effect of fault bend on the rupture propagation process of stick-slip. <i>Tectonophysics</i> , 1999, 310, 81-99.	0.9	24
44	Recognition of a Locked State in Plate Subduction from Microearthquake Seismicity. , 1999, , 669-687.		0
45	The Variation of Stresses due to Aseismic Sliding and its Effect on Seismic Activity. , 1999, , 425-442.		0
46	A Numerical Simulation of Postseismic Sliding on a Plate Boundary. <i>Zisin (Journal of the Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 382 Td (S</i>	0.0	3
47	A numerical study on seismic coupling along subduction zones using a laboratory-derived friction law. <i>Physics of the Earth and Planetary Interiors</i> , 1997, 102, 51-68.	0.7	89
48	Microfracture processes in the breakdown zone during dynamic shear rupture inferred from laboratory observation of near-fault high-frequency strong motion. <i>Pure and Applied Geophysics</i> , 1994, 142, 713-734.	0.8	17
49	Near-Fault High-Frequency Ground Motion Generated by Stick-Slip Events. <i>Zisin (Journal of the Tj ETQq1 1 0.784314 rgBT /Overlock 1</i>	0.0	1
50	Strain-rate effect on frictional strength and the slip nucleation process. <i>Tectonophysics</i> , 1992, 211, 269-282.	0.9	72
51	Slowly Propagating Slip Events in a Composite Sample of Granite and Marble.. <i>Journal of Physics of the Earth</i> , 1991, 39, 461-476.	1.4	8