

# Ilya Zaliapin

## List of Publications by Citations

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68

papers

2,133

citations

27

h-index

44

g-index

79

ext. papers

2,545

ext. citations

3.9

avg, IF

5.33

L-index

#	Paper	IF	Citations
68	Clustering analysis of seismicity and aftershock identification. <i>Physical Review Letters</i> , <b>2008</b> , 101, 018501	7.4	188
67	Earthquake clusters in southern California I: Identification and stability. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2013</b> , 118, 2847-2864	3.6	185
66	Extreme events: dynamics, statistics and prediction. <i>Nonlinear Processes in Geophysics</i> , <b>2011</b> , 18, 295-350	2.9	147
65	Earthquake clusters in southern California II: Classification and relation to physical properties of the crust. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2013</b> , 118, 2865-2877	3.6	71
64	CLIP-170-dependent capture of membrane organelles by microtubules initiates minus-end directed transport. <i>Developmental Cell</i> , <b>2009</b> , 17, 323-33	10.2	69
63	Approximating the Distribution of Pareto Sums. <i>Pure and Applied Geophysics</i> , <b>2005</b> , 162, 1187-1228	2.2	67
62	Delta channel networks: 1. A graph-theoretic approach for studying connectivity and steady state transport on deltaic surfaces. <i>Water Resources Research</i> , <b>2015</b> , 51, 3998-4018	5.4	65
61	A global classification and characterization of earthquake clusters. <i>Geophysical Journal International</i> , <b>2016</b> , 207, 608-634	2.6	64
60	Actin dynamics is essential for myosin-based transport of membrane organelles. <i>Current Biology</i> , <b>2008</b> , 18, 1581-6	6.3	59
59	Delta channel networks: 2. Metrics of topologic and dynamic complexity for delta comparison, physical inference, and vulnerability assessment. <i>Water Resources Research</i> , <b>2015</b> , 51, 4019-4045	5.4	56
58	Short-term earthquake prediction by reverse analysis of lithosphere dynamics. <i>Tectonophysics</i> , <b>2006</b> , 413, 63-75	3.1	54
57	Discriminating Characteristics of Tectonic and Human-Induced Seismicity. <i>Bulletin of the Seismological Society of America</i> , <b>2016</b> , 106, 846-859	2.3	52
56	Boolean delay equations: A simple way of looking at complex systems. <i>Physica D: Nonlinear Phenomena</i> , <b>2008</b> , 237, 2967-2986	3.3	50
55	A delay differential model of ENSO variability: parametric instability and the distribution of extremes. <i>Nonlinear Processes in Geophysics</i> , <b>2008</b> , 15, 417-433	2.9	48
54	Protein kinase A, which regulates intracellular transport, forms complexes with molecular motors on organelles. <i>Current Biology</i> , <b>2004</b> , 14, 1877-81	6.3	45
53	Asymmetric distribution of aftershocks on large faults in California. <i>Geophysical Journal International</i> , <b>2011</b> , 185, 1288-1304	2.6	44
52	Colliding cascades model for earthquake prediction. <i>Geophysical Journal International</i> , <b>2000</b> , 143, 427-437	3.6	44

51	Complex spatiotemporal evolution of the 2008 Mw 4.9 Mogul earthquake swarm (Reno, Nevada): Interplay of fluid and faulting. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2016</b> , 121, 8196-8216	3.6	41
50	A Boolean Delay Equation Model of Colliding Cascades. Part II: Prediction of Critical Transitions. <i>Journal of Statistical Physics</i> , <b>2003</b> , 111, 839-861	1.5	41
49	Entropy and optimality in river deltas. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, 11651-11656	11.5	36
48	Are American rivers Tokunaga self-similar? New results on fluvial network topology and its climatic dependence. <i>Journal of Geophysical Research F: Earth Surface</i> , <b>2013</b> , 118, 166-183	3.8	33
47	Transport on river networks: A dynamic tree approach. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115,		33
46	Regulation of microtubule-based transport by MAP4. <i>Molecular Biology of the Cell</i> , <b>2014</b> , 25, 3119-32	3.5	31
45	CK1 activates minus-end-directed transport of membrane organelles along microtubules. <i>Molecular Biology of the Cell</i> , <b>2011</b> , 22, 1321-9	3.5	31
44	Multiscale trend analysis of microtubule transport in melanophores. <i>Biophysical Journal</i> , <b>2005</b> , 88, 4008-16		31
43	Critical transitions in colliding cascades. <i>Physical Review E</i> , <b>2000</b> , 62, 237-49	2.4	30
42	Quantifying the signature of sediment composition on the topologic and dynamic complexity of river delta channel networks and inferences toward delta classification. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 3280-3287	4.9	27
41	Another look at climate sensitivity. <i>Nonlinear Processes in Geophysics</i> , <b>2010</b> , 17, 113-122	2.9	27
40	Switching of membrane organelles between cytoskeletal transport systems is determined by regulation of the microtubule-based transport. <i>Journal of Cell Biology</i> , <b>2007</b> , 179, 635-41	7.3	26
39	Artefacts of earthquake location errors and short-term incompleteness on seismicity clusters in southern California. <i>Geophysical Journal International</i> , <b>2015</b> , 202, 1949-1968	2.6	23
38	Premonitory raise of the earthquakes correlation range: Lesser Antilles. <i>Physics of the Earth and Planetary Interiors</i> , <b>2000</b> , 122, 241-249	2.3	23
37	Advance short-term prediction of the large Tokachi-oki earthquake, September 25, 2003, M = 8.1 A case history. <i>Earth, Planets and Space</i> , <b>2004</b> , 56, 715-724	2.9	22
36	A Boolean Delay Equation Model of Colliding Cascades. Part I: Multiple Seismic Regimes. <i>Journal of Statistical Physics</i> , <b>2003</b> , 111, 815-837	1.5	22
35	Spatial variations of rock damage production by earthquakes in southern California. <i>Earth and Planetary Science Letters</i> , <b>2019</b> , 512, 184-193	5.3	21
34	Scale-dependent erosional patterns in steady-state and transient-state landscapes. <i>Science Advances</i> , <b>2017</b> , 3, e1701683	14.3	19

33	Earthquake Declustering Using the Nearest-Neighbor Approach in Space-Time-Magnitude Domain. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2020</b> , 125, e2018JB017120	3.6	19
32	Comparative Study of Earthquake Clustering in Relation to Hydraulic Activities at Geothermal Fields in California. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2018</b> , 123, 4041-4062	3.6	19
31	Predicting Critical Transitions in ENSO Models. Part I: Methodology and Simple Models with Memory. <i>Journal of Climate</i> , <b>2015</b> , 28, 1940-1961	4.4	18
30	Localization and coalescence of seismicity before large earthquakes. <i>Geophysical Journal International</i> , <b>2020</b> , 223, 561-583	2.6	17
29	Spatiotemporal Correlation Between Seasonal Variations in Seismicity and Horizontal Dilatational Strain in California. <i>Geophysical Research Letters</i> , <b>2018</b> , 45, 9559-9568	4.9	16
28	Drought-Triggered Magmatic Inflation, Crustal Strain, and Seismicity Near the Long Valley Caldera, Central Walker Lane. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2019</b> , 124, 6072-6091	3.6	14
27	MULTISCALE TREND ANALYSIS. <i>Fractals</i> , <b>2004</b> , 12, 275-292	3.2	14
26	Tokunaga and Horton self-similarity for level set trees of Markov chains. <i>Chaos, Solitons and Fractals</i> , <b>2012</b> , 45, 358-372	9.3	13
25	A delay differential model of ENSO variability [Part 2: Phase locking, multiple solutions and dynamics of extrema. <i>Nonlinear Processes in Geophysics</i> , <b>2010</b> , 17, 123-135	2.9	13
24	Predictability of volcano eruption: Lessons from a basaltic effusive volcano. <i>Geophysical Research Letters</i> , <b>2004</b> , 31, n/a-n/a	4.9	13
23	Premonitory patterns of seismicity months before a large earthquake: five case histories in Southern California. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2002</b> , 99, 16562-7	11.5	13
22	Premonitory spreading of seismicity over the faults' network in southern California: Precursor Accord. <i>Journal of Geophysical Research</i> , <b>2002</b> , 107, ESE 5-1-ESE 5-15		13
21	HORTON LAW IN SELF-SIMILAR TREES. <i>Fractals</i> , <b>2016</b> , 24, 1650017	3.2	12
20	Engineered Tug-of-War Between Kinesin and Dynein Controls Direction of Microtubule Based Transport In Vivo. <i>Traffic</i> , <b>2016</b> , 17, 475-86	5.7	12
19	Inverse cascade in a percolation model: hierarchical description of time-dependent scaling. <i>Physical Review E</i> , <b>2005</b> , 71, 066118	2.4	10
18	Stimulation of the CLIP-170--dependent capture of membrane organelles by microtubules through fine tuning of microtubule assembly dynamics. <i>Molecular Biology of the Cell</i> , <b>2011</b> , 22, 4029-37	3.5	9
17	Hierarchical aggregation in percolation model. <i>Tectonophysics</i> , <b>2006</b> , 413, 93-107	3.1	9
16	Stability of intermediate-term earthquake predictions with respect to random errors in magnitude: the case of central Italy. <i>Physics of the Earth and Planetary Interiors</i> , <b>2002</b> , 130, 117-127	2.3	9

15	Horton self-similarity of Kingman's coalescent tree. <i>Annales De L'Institut Henri Poincare (B) Probability and Statistics</i> , <b>2017</b> , 53,	1.3	7
14	Seismic clustering in the Sea of Marmara: Implications for monitoring earthquake processes. <i>Tectonophysics</i> , <b>2019</b> , 768, 228176	3.1	7
13	Understanding ENSO Variability and Its Extrema. <i>Geophysical Monograph Series</i> , 63-77	1.1	7
12	Systematic fluctuations in the global seismic moment release. <i>Geophysical Research Letters</i> , <b>2017</b> , 44, 4820-4828	4.9	5
11	Random self-similar trees: A mathematical theory of Horton laws. <i>Probability Surveys</i> , <b>2020</b> , 17,	2.2	5
10	Tokunaga self-similarity arises naturally from time invariance. <i>Chaos</i> , <b>2018</b> , 28, 041102	3.3	5
9	Dynamical Pruning of Rooted Trees with Applications to 1-D Ballistic Annihilation. <i>Journal of Statistical Physics</i> , <b>2020</b> , 181, 618-672	1.5	4
8	Temporal (Un)correlations Between Coda Q and Seismicity: Multiscale Trend Analysis. <i>Pure and Applied Geophysics</i> , <b>2005</b> , 162, 827-841	2.2	4
7	Random self-similar trees and a hierarchical branching process. <i>Stochastic Processes and Their Applications</i> , <b>2019</b> , 129, 2528-2560	1.1	3
6	Are American rivers Tokunaga self-similar? New results on fluvial network topology and its climatic dependence <b>2013</b> , 118, 166		3
5	Network robustness assessed within a dual connectivity framework: joint dynamics of the Active and Idle Networks. <i>Scientific Reports</i> , <b>2017</b> , 7, 8567	4.9	2
4	Predictability of extreme events in a branching diffusion model 126-142		2
3	Climate Signatures on Lake And Wetland Size Distributions in Arctic Deltas. <i>Geophysical Research Letters</i> , <b>2021</b> , 48, e2021GL094437	4.9	2
2	Invariance and attraction properties of Galton-Watson trees. <i>Bernoulli</i> , <b>2021</b> , 27,	1.6	1
1	Critical Tokunaga model for river networks.. <i>Physical Review E</i> , <b>2022</b> , 105, 014301	2.4	0