Ilya Zaliapin

List of Publications by Year in Descending Order

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	Critical Tokunaga model for river networks.. *Physical Review E*, **2022**, 105, 014301	2.4	0
67	Climate Signatures on Lake And Wetland Size Distributions in Arctic Deltas. *Geophysical Research Letters*, **2021**, 48, e2021GL094437	4.9	2
66	Invariance and attraction properties of Galton□Watson trees. *Bernoulli*, **2021**, 27,	1.6	1
65	Localization and coalescence of seismicity before large earthquakes. *Geophysical Journal International*, **2020**, 223, 561-583	2.6	17
64	Dynamical Pruning of Rooted Trees with Applications to 1-D Ballistic Annihilation. *Journal of Statistical Physics*, **2020**, 181, 618-672	1.5	4
63	Earthquake Declustering Using the Nearest-Neighbor Approach in Space-Time-Magnitude Domain. *Journal of Geophysical Research: Solid Earth*, **2020**, 125, e2018JB017120	3.6	19
62	Random self-similar trees: A mathematical theory of Horton laws. *Probability Surveys*, **2020**, 17,	2.2	5
61	Drought-Triggered Magmatic Inflation, Crustal Strain, and Seismicity Near the Long Valley Caldera, Central Walker Lane. *Journal of Geophysical Research: Solid Earth*, **2019**, 124, 6072-6091	3.6	14
60	Random self-similar trees and a hierarchical branching process. *Stochastic Processes and Their Applications*, **2019**, 129, 2528-2560	1.1	3
59	Seismic clustering in the Sea of Marmara: Implications for monitoring earthquake processes. *Tectonophysics*, **2019**, 768, 228176	3.1	7
58	Spatial variations of rock damage production by earthquakes in southern California. *Earth and Planetary Science Letters*, **2019**, 512, 184-193	5.3	21
57	Comparative Study of Earthquake Clustering in Relation to Hydraulic Activities at Geothermal Fields in California. *Journal of Geophysical Research: Solid Earth*, **2018**, 123, 4041-4062	3.6	19
56	Spatiotemporal Correlation Between Seasonal Variations in Seismicity and Horizontal Dilatational Strain in California. *Geophysical Research Letters*, **2018**, 45, 9559-9568	4.9	16
55	Tokunaga self-similarity arises naturally from time invariance. *Chaos*, **2018**, 28, 041102	3.3	5
54	Systematic fluctuations in the global seismic moment release. *Geophysical Research Letters*, **2017**, 44, 4820-4828	4.9	5
53	Scale-dependent erosional patterns in steady-state and transient-state landscapes. *Science Advances*, **2017**, 3, e1701683	14.3	19
52	Entropy and optimality in river deltas. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, 11651-11656	11.5	36

51	Horton self-similarity of Kingman's coalescent tree. *Annales De L'institut Henri Poincare (B) Probability and Statistics*, **2017**, 53,	1.3	7
50	Network robustness assessed within a dual connectivity framework: joint dynamics of the Active and Idle Networks. *Scientific Reports*, **2017**, 7, 8567	4.9	2
49	Quantifying the signature of sediment composition on the topologic and dynamic complexity of river delta channel networks and inferences toward delta classification. *Geophysical Research Letters*, **2016**, 43, 3280-3287	4.9	27
48	Complex spatiotemporal evolution of the 2008 Mw 4.9 Mogul earthquake swarm (Reno, Nevada): Interplay of fluid and faulting. *Journal of Geophysical Research: Solid Earth*, **2016**, 121, 8196-8216	3.6	41
47	HORTON LAW IN SELF-SIMILAR TREES. *Fractals*, **2016**, 24, 1650017	3.2	12
46	Engineered Tug-of-War Between Kinesin and Dynein Controls Direction of Microtubule Based Transport In Vivo. *Traffic*, **2016**, 17, 475-86	5.7	12
45	Discriminating Characteristics of Tectonic and Human-Induced Seismicity. *Bulletin of the Seismological Society of America*, **2016**, 106, 846-859	2.3	52
44	A global classification and characterization of earthquake clusters. *Geophysical Journal International* , **2016**, 207, 608-634	2.6	64
43	Predicting Critical Transitions in ENSO Models. Part I: Methodology and Simple Models with Memory. *Journal of Climate*, **2015**, 28, 1940-1961	4.4	18
42	Artefacts of earthquake location errors and short-term incompleteness on seismicity clusters in southern California. *Geophysical Journal International*, **2015**, 202, 1949-1968	2.6	23
41	Delta channel networks: 2. Metrics of topologic and dynamic complexity for delta comparison, physical inference, and vulnerability assessment. *Water Resources Research*, **2015**, 51, 4019-4045	5.4	56
40	Delta channel networks: 1. A graph-theoretic approach for studying connectivity and steady state transport on deltaic surfaces. *Water Resources Research*, **2015**, 51, 3998-4018	5.4	65
39	Regulation of microtubule-based transport by MAP4. *Molecular Biology of the Cell*, **2014**, 25, 3119-32	3.5	31
38	Earthquake clusters in southern California I: Identification and stability. *Journal of Geophysical Research: Solid Earth*, **2013**, 118, 2847-2864	3.6	185
37	Earthquake clusters in southern California II: Classification and relation to physical properties of the crust. *Journal of Geophysical Research: Solid Earth*, **2013**, 118, 2865-2877	3.6	71
36	Are American rivers Tokunaga self-similar? New results on fluvial network topology and its climatic dependence. *Journal of Geophysical Research F: Earth Surface*, **2013**, 118, 166-183	3.8	33
35	Are American rivers Tokunaga self-similar? New results on fluvial network topology and its climatic dependence **2013**, 118, 166		3
34	Tokunaga and Horton self-similarity for level set trees of Markov chains. *Chaos, Solitons and Fractals*, **2012**, 45, 358-372	9.3	13

33	Extreme events: dynamics, statistics and prediction. *Nonlinear Processes in Geophysics*, **2011**, 18, 295-350	2.9	147
32	Asymmetric distribution of aftershocks on large faults in California. *Geophysical Journal International*, **2011**, 185, 1288-1304	2.6	44
31	Stimulation of the CLIP-170--dependent capture of membrane organelles by microtubules through fine tuning of microtubule assembly dynamics. *Molecular Biology of the Cell*, **2011**, 22, 4029-37	3.5	9
30	CK1 activates minus-end-directed transport of membrane organelles along microtubules. *Molecular Biology of the Cell*, **2011**, 22, 1321-9	3.5	31
29	A delay differential model of ENSO variability Part 2: Phase locking, multiple solutions and dynamics of extrema. *Nonlinear Processes in Geophysics*, **2010**, 17, 123-135	2.9	13
28	Another look at climate sensitivity. *Nonlinear Processes in Geophysics*, **2010**, 17, 113-122	2.9	27
27	Transport on river networks: A dynamic tree approach. *Journal of Geophysical Research*, **2010**, 115,		33
26	CLIP-170-dependent capture of membrane organelles by microtubules initiates minus-end directed transport. *Developmental Cell*, **2009**, 17, 323-33	10.2	69
25	Actin dynamics is essential for myosin-based transport of membrane organelles. *Current Biology*, **2008**, 18, 1581-6	6.3	59
24	Clustering analysis of seismicity and aftershock identification. *Physical Review Letters*, **2008**, 101, 018501	7.4	188
23	A delay differential model of ENSO variability: parametric instability and the distribution of extremes. *Nonlinear Processes in Geophysics*, **2008**, 15, 417-433	2.9	48
22	Boolean delay equations: A simple way of looking at complex systems. *Physica D: Nonlinear Phenomena*, **2008**, 237, 2967-2986	3.3	50
21	Switching of membrane organelles between cytoskeletal transport systems is determined by regulation of the microtubule-based transport. *Journal of Cell Biology*, **2007**, 179, 635-41	7.3	26
20	Hierarchical aggregation in percolation model. *Tectonophysics*, **2006**, 413, 93-107	3.1	9
19	Short-term earthquake prediction by reverse analysis of lithosphere dynamics. *Tectonophysics*, **2006** , 413, 63-75	3.1	54
18	Multiscale trend analysis of microtubule transport in melanophores. *Biophysical Journal*, **2005**, 88, 4008-16	2.9	31
17	Temporal (Un)correlations Between Coda Q and Seismicity: Multiscale Trend Analysis. *Pure and Applied Geophysics*, **2005**, 162, 827-841	2.2	4
16	Approximating the Distribution of Pareto Sums. *Pure and Applied Geophysics*, **2005**, 162, 1187-1228	2.2	67

15	Inverse cascade in a percolation model: hierarchical description of time-dependent scaling. *Physical Review E*, **2005**, 71, 066118	2.4	10
14	MULTISCALE TREND ANALYSIS. *Fractals*, **2004**, 12, 275-292	3.2	14
13	Protein kinase A, which regulates intracellular transport, forms complexes with molecular motors on organelles. *Current Biology*, **2004**, 14, 1877-81	6.3	45
12	Advance short-term prediction of the large Tokachi-oki earthquake, September 25, 2003, M = 8.1 A case history. *Earth, Planets and Space*, **2004**, 56, 715-724	2.9	22
11	Predictability of volcano eruption: Lessons from a basaltic effusive volcano. *Geophysical Research Letters*, **2004**, 31, n/a-n/a	4.9	13
10	A Boolean Delay Equation Model of Colliding Cascades. Part II: Prediction of Critical Transitions. *Journal of Statistical Physics*, **2003**, 111, 839-861	1.5	41
9	A Boolean Delay Equation Model of Colliding Cascades. Part I: Multiple Seismic Regimes. *Journal of Statistical Physics*, **2003**, 111, 815-837	1.5	22
8	Premonitory patterns of seismicity months before a large earthquake: five case histories in Southern California. *Proceedings of the National Academy of Sciences of the United States of America*, **2002**, 99, 16562-7	11.5	13
7	Stability of intermediate-term earthquake predictions with respect to random errors in magnitude: the case of central Italy. *Physics of the Earth and Planetary Interiors*, **2002**, 130, 117-127	2.3	9
6	Premonitory spreading of seismicity over the faults' network in southern California: Precursor Accord. *Journal of Geophysical Research*, **2002**, 107, ESE 5-1-ESE 5-15		13
5	Colliding cascades model for earthquake prediction. *Geophysical Journal International*, **2000**, 143, 427-437	2.6	44
4	Critical transitions in colliding cascades. *Physical Review E*, **2000**, 62, 237-49	2.4	30
3	Premonitory raise of the earthquakes correlation range: Lesser Antilles. *Physics of the Earth and Planetary Interiors*, **2000**, 122, 241-249	2.3	23
2	Predictability of extreme events in a branching diffusion model126-142		2
1	Understanding ENSO Variability and Its Extrema. *Geophysical Monograph Series*,63-77	1.1	7