

# Zoltn Nda

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

94  
papers

3,982  
citations

19  
h-index

62  
g-index

100  
ext. papers

4,501  
ext. citations

3.7  
avg, IF

5.22  
L-index

#	Paper	IF	Citations
94	Wealth Distribution in Villages. Transition From Socialism to Capitalism in View of Exhaustive Wealth Data and a Master Equation Approach. <i>Frontiers in Physics</i> , <b>2022</b> , 10,	3.9	1
93	Transient Dynamics in the Random Growth and Reset Model. <i>Entropy</i> , <b>2021</b> , 23,	2.8	3
92	Synchronization patterns in rings of time-delayed Kuramoto oscillators. <i>Communications in Nonlinear Science and Numerical Simulation</i> , <b>2021</b> , 93, 105505	3.7	2
91	Wealth distribution in modern societies: Collected data and a master equation approach. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2021</b> , 581, 126194	3.3	4
90	Oscillations and collective behavior in convective flows. <i>Physics of Fluids</i> , <b>2021</b> , 33, 124104	4.4	0
89	Flickering candle flames and their collective behavior. <i>Scientific Reports</i> , <b>2020</b> , 10, 21305	4.9	5
88	Scaling in income inequalities and its dynamical origin. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2020</b> , 549, 124491	3.3	7
87	Gintropy: Gini Index Based Generalization of Entropy. <i>Entropy</i> , <b>2020</b> , 22,	2.8	6
86	Pattern selection in a ring of Kuramoto oscillators. <i>Communications in Nonlinear Science and Numerical Simulation</i> , <b>2019</b> , 78, 104868	3.7	6
85	Scaling in the space-time of the Internet. <i>Scientific Reports</i> , <b>2019</b> , 9, 9734	4.9	0
84	The Space-time of Physics: a Kinetic Space. <i>Hungarian Studies Yearbook</i> , <b>2019</b> , 1, 10-24	0	
83	Entropic Divergence and Entropy Related to Nonlinear Master Equations. <i>Entropy</i> , <b>2019</b> , 21, 993	2.8	7
82	Unidirectional random growth with resetting. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2018</b> , 499, 335-361	3.3	18
81	Universality in the coarse-grained fluctuations for a class of linear dynamical systems. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2018</b> , 503, 215-220	3.3	
80	Entropic Distance for Nonlinear Master Equation. <i>Universe</i> , <b>2018</b> , 4, 10	2.5	4
79	Commuting patterns: the flow and jump model and supporting data. <i>EPJ Data Science</i> , <b>2018</b> , 7,	3.4	9
78	Gambler's ruin problem on Erdős-Rényi graphs. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2017</b> , 468, 147-157	3.3	2

77	Equilibrium distributions in entropy driven balanced processes. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2017</b> , 474, 355-362	3.3	2
76	Cell-size distribution and scaling in a one-dimensional Kolmogorov-Johnson-Mehl-Avrami lattice model with continuous nucleation. <i>Physical Review E</i> , <b>2017</b> , 96, 042145	2.4	2
75	Dynamical stationarity as a result of sustained random growth. <i>Physical Review E</i> , <b>2017</b> , 95, 032130	2.4	7
74	Science and Facebook: The same popularity law!. <i>PLoS ONE</i> , <b>2017</b> , 12, e0179656	3.7	16
73	The advantage of inhomogeneity [Lessons from a noise driven linearized dynamical system. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2016</b> , 445, 310-317	3.3	2
72	Further We Travel the Faster We Go. <i>PLoS ONE</i> , <b>2016</b> , 11, e0148913	3.7	6
71	An improved radiation model and its applicability for understanding commuting patterns in Hungary. <i>Regional Statistics</i> , <b>2016</b> , 6, 27-38	1.6	11
70	Time-scale effects on the gain-loss asymmetry in stock indices. <i>Physical Review E</i> , <b>2016</b> , 94, 022311	2.4	3
69	A springBlock analogy for the dynamics of stock indexes. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2015</b> , 427, 122-131	3.3	8
68	Order and disorder in coupled metronome systems. <i>European Physical Journal: Special Topics</i> , <b>2014</b> , 223, 649-663	2.3	0
67	Sync or anti-sync [Dynamical pattern selection in coupled self-sustained oscillator systems. <i>Journal of Physics: Conference Series</i> , <b>2014</b> , 510, 012009	0.3	
66	Kinetic roughening of a soft dewetting line under quenched disorder: A numerical study. <i>Physical Review E</i> , <b>2014</b> , 90, 052404	2.4	2
65	The rhythm of coupled metronomes. <i>European Physical Journal B</i> , <b>2013</b> , 86, 1	1.2	11
64	Walkie-talkie measurements for the speed of radio waves in air. <i>Physics Education</i> , <b>2013</b> , 48, 80-86	0.8	1
63	Chaos on the conveyor belt. <i>Physical Review E</i> , <b>2013</b> , 87, 042920	2.4	5
62	The complex parameter space of a two-mode oscillator model. <i>Physica D: Nonlinear Phenomena</i> , <b>2013</b> , 256-257, 43-50	3.3	3
61	A kinetic Monte Carlo study for stripe-like magnetic domains in ferrimagnetic thin films. <i>Open Physics</i> , <b>2013</b> , 11,	1.3	1
60	Viscous potential flow analysis of peripheral heavy ion collisions. <i>Physical Review C</i> , <b>2013</b> , 87,	2.7	24

59	Kuramoto-type phase transition with metronomes. <i>European Journal of Physics</i> , <b>2013</b> , 34, 1451-1463	0.8	7
58	Human mobility in a continuum approach. <i>PLoS ONE</i> , <b>2013</b> , 8, e60069	3.7	57
57	Spring-block approach for crack patterns in glass. <i>Open Physics</i> , <b>2012</b> , 10,	1.3	2
56	A seed-diffusion model for tropical tree diversity patterns. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2012</b> , 391, 4798-4806	3.3	2
55	Income distribution patterns from a complete social security database. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2012</b> , 391, 5611-5619	3.3	15
54	Earthquake model describes traffic jams caused by imperfect driving styles. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2012</b> , 391, 5727-5738	3.3	6
53	Kinetic Monte Carlo approach for triangular-shaped Pt islands on Pt(111) surfaces. <i>Physica Status Solidi (B): Basic Research</i> , <b>2012</b> , 249, 1709-1716	1.3	6
52	Fluctuations in hadronizing quark gluon plasma. <i>Physical Review C</i> , <b>2012</b> , 85,	2.7	10
51	OPTIMIZATION INDUCED COLLECTIVE BEHAVIOR IN A SYSTEM OF FLASHING OSCILLATORS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , <b>2012</b> , 22, 1230002	2	
50	WINNING STRATEGIES IN CONGESTED TRAFFIC. <i>International Journal of Modern Physics C</i> , <b>2012</b> , 23, 1250063		1
49	The Boltzmann constant from a snifter. <i>European Journal of Physics</i> , <b>2012</b> , 33, 455-465	0.8	2
48	Spring-block model reveals region-like structures. <i>PLoS ONE</i> , <b>2011</b> , 6, e16518	3.7	1
47	A Kinetic Monte Carlo Approach for Self-Diffusion of Pt Atom Clusters on a Pt(111) Surface. <i>Communications in Computational Physics</i> , <b>2011</b> , 10, 920-939	2.4	2
46	Spring-block approach for nanobristle patterns. <i>Chemical Physics Letters</i> , <b>2011</b> , 511, 378-383	2.5	7
45	Spring-block model for a single-lane highway traffic. <i>Open Physics</i> , <b>2011</b> , 9,	1.3	5
44	Topology of the Erasmus student mobility network. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2011</b> , 390, 2601-2610	3.3	15
43	Criticality and pattern formation in fracture by residual stresses. <i>Physical Review E</i> , <b>2010</b> , 82, 046118	2.4	7
42	Persistent collective trend in stock markets. <i>Physical Review E</i> , <b>2010</b> , 82, 066113	2.4	24

41	A spatially explicit model for tropical tree diversity patterns. <i>Journal of Theoretical Biology</i> , <b>2010</b> , 265, 517-23	2.3	13
40	Nontrivial spontaneous synchronization. <i>Physical Review E</i> , <b>2009</b> , 79, 056205	2.4	3
39	Correlation clustering on networks. <i>Journal of Physics A: Mathematical and Theoretical</i> , <b>2009</b> , 42, 345003	2	5
38	Stochastic optimization of spin-glasses on cellular neural/nonlinear network based processors. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2009</b> , 388, 1024-1030	3.3	2
37	Unexpected synchronization. <i>Journal of Physics: Conference Series</i> , <b>2009</b> , 182, 012026	0.3	1
36	Cellular Neural Networks for NP-Hard Optimization. <i>Eurasip Journal on Advances in Signal Processing</i> , <b>2009</b> , 2009,	1.9	3
35	MOLECULAR DYNAMICS APPROACH TO CORRELATION CLUSTERING. <i>International Journal of Modern Physics C</i> , <b>2008</b> , 19, 1349-1358	1.1	1
34	Cellular neural networks for NP-hard optimization <b>2008</b> ,		2
33	Statistical physics on cellular neural network computers. <i>Physica D: Nonlinear Phenomena</i> , <b>2008</b> , 237, 1226-1234	3.3	5
32	Collective behavior of electronic fireflies. <i>European Physical Journal B</i> , <b>2008</b> , 65, 271-277	1.2	3
31			
30	Wealth distribution and Pareto's law in the Hungarian medieval society. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2007</b> , 380, 271-277	3.3	23
29	On the size distribution of Poisson Voronoi cells. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2007</b> , 385, 518-526	3.3	365
28	Disorder-driven phase transition in a spring-block type magnetization model. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2007</b> , 361, 18-23	2.3	4
27	Shake-induced order in nanosphere systems. <i>European Physical Journal E</i> , <b>2007</b> , 23, 153-9	1.5	10
26	Wealth distribution in modern and medieval societies. <i>European Physical Journal: Special Topics</i> , <b>2007</b> , 143, 81-85	2.3	3
25	Controlled deposition of photonic polystyrene-nanosphere films <b>2007</b> ,		3
24	PERSPECTIVES FOR MONTE CARLO SIMULATIONS ON THE CNN UNIVERSAL MACHINE. <i>International Journal of Modern Physics C</i> , <b>2006</b> , 17, 909-922	1.1	7

23	Random Number Generator and Monte Carlo type Simulations on the CNN-UM <b>2006</b> ,		1
22	Phase transition in an optimal clusterization model. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2006</b> , 362, 357-368	3.3	8
21	Stochastic simulations on the cellular wave computers. <i>European Physical Journal B</i> , <b>2006</b> , 51, 407-411	1.2	9
20	A family-network model for wealth distribution in societies. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2005</b> , 353, 515-528	3.3	39
19	Understanding self-assembled nanosphere patterns. <i>Chemical Physics Letters</i> , <b>2005</b> , 408, 241-246	2.5	33
18	Rheology of Concentrated Suspensions: A Lattice Model <b>2005</b> , 639-645		
17	A spring-block model for Barkhausen noise. <i>Modelling and Simulation in Materials Science and Engineering</i> , <b>2005</b> , 13, 1341-1352	2	10
16	Measuring preferential attachment in evolving networks. <i>Europhysics Letters</i> , <b>2003</b> , 61, 567-572	1.6	316
15	Flatness of the setting Sun. <i>American Journal of Physics</i> , <b>2003</b> , 71, 379-385	0.7	2
14	Synchronization of two-mode stochastic oscillators: a new model for rhythmic applause and much more. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2003</b> , 321, 238-247	3.3	18
13	Networks in life: scaling properties and eigenvalue spectra. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2002</b> , 314, 25-34	3.3	68
12	Evolution of the social network of scientific collaborations. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2002</b> , 311, 590-614	3.3	1622
11	Spiral cracks in drying precipitates. <i>Physical Review Letters</i> , <b>2002</b> , 88, 095502	7.4	69
10	Pattern formation. Spiral cracks without twisting. <i>Nature</i> , <b>2001</b> , 410, 166	50.4	44
9	Collective Dynamics of Two-Mode Stochastic Oscillators. <i>Physical Review Letters</i> , <b>2001</b> , 87,	7.4	19
8	The sound of many hands clapping. <i>Nature</i> , <b>2000</b> , 403, 849-50	50.4	501
7	Computer simulation of the microstructure and rheology of semi-solid alloys under shear. <i>Acta Materialia</i> , <b>2000</b> , 48, 3773-3782	8.4	37
6	Physics of the rhythmic applause. <i>Physical Review E</i> , <b>2000</b> , 61, 6987-92	2.4	163

5	Pattern formation and selection in quasistatic fracture. <i>Physical Review Letters</i> , <b>2000</b> , 85, 662-5	7.4	65
4	Reconsideration of continuum percolation of isotropically oriented sticks in three dimensions. <i>Physical Review E</i> , <b>1999</b> , 59, 3717-3719	2.4	78
3	On the circular hydraulic jump. <i>American Journal of Physics</i> , <b>1999</b> , 67, 723-731	0.7	33
2	The dripping faucet revisited. <i>Chaos</i> , <b>1996</b> , 6, 59-62	3.3	9
1	Stochastic resonance in Ising systems. <i>Physical Review E</i> , <b>1995</b> , 51, 5315-5317	2.4	36