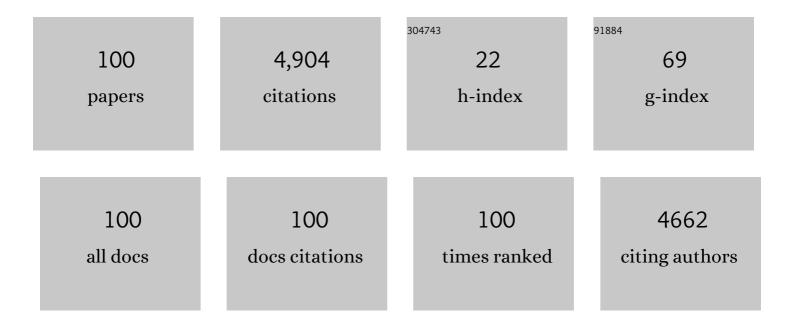
List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/5898470/publications.pdf Version: 2024-02-01



ΖΟΙΤΑ:Ν ΝΑΩΟΛ

#	Article	IF	CITATIONS
1	Evolution of the social network of scientific collaborations. Physica A: Statistical Mechanics and Its Applications, 2002, 311, 590-614.	2.6	1,999
2	The sound of many hands clapping. Nature, 2000, 403, 849-850.	27.8	596
3	On the size distribution of Poisson Voronoi cells. Physica A: Statistical Mechanics and Its Applications, 2007, 385, 518-526.	2.6	454
4	Measuring preferential attachment in evolving networks. Europhysics Letters, 2003, 61, 567-572.	2.0	403
5	Physics of the rhythmic applause. Physical Review E, 2000, 61, 6987-6992.	2.1	196
6	Reconsideration of continuum percolation of isotropically oriented sticks in three dimensions. Physical Review E, 1999, 59, 3717-3719.	2.1	89
7	Networks in life: scaling properties and eigenvalue spectra. Physica A: Statistical Mechanics and Its Applications, 2002, 314, 25-34.	2.6	79
8	Spiral Cracks in Drying Precipitates. Physical Review Letters, 2002, 88, 095502.	7.8	78
9	Pattern Formation and Selection in Quasistatic Fracture. Physical Review Letters, 2000, 85, 662-665.	7.8	70
10	Human Mobility in a Continuum Approach. PLoS ONE, 2013, 8, e60069.	2.5	67
11	Spiral cracks without twisting. Nature, 2001, 410, 166-166.	27.8	49
12	A family-network model for wealth distribution in societies. Physica A: Statistical Mechanics and Its Applications, 2005, 353, 515-528.	2.6	47
13	On the circular hydraulic jump. American Journal of Physics, 1999, 67, 723-731.	0.7	42
14	Stochastic resonance in Ising systems. Physical Review E, 1995, 51, 5315-5317.	2.1	40
15	Computer simulation of the microstructure and rheology of semi-solid alloys under shear. Acta Materialia, 2000, 48, 3773-3782.	7.9	38
16	Understanding self-assembled nanosphere patterns. Chemical Physics Letters, 2005, 408, 241-246.	2.6	38
17	Collective Dynamics of Two-Mode Stochastic Oscillators. Physical Review Letters, 2001, 87, .	7.8	26
18	Unidirectional random growth with resetting. Physica A: Statistical Mechanics and Its Applications, 2018, 499, 335-361.	2.6	26

#	Article	IF	CITATIONS
19	Wealth distribution and Pareto's law in the Hungarian medieval society. Physica A: Statistical Mechanics and Its Applications, 2007, 380, 271-277.	2.6	25
20	Persistent collective trend in stock markets. Physical Review E, 2010, 82, 066113.	2.1	25
21	Viscous potential flow analysis of peripheral heavy ion collisions. Physical Review C, 2013, 87, .	2.9	25
22	Science and Facebook: The same popularity law!. PLoS ONE, 2017, 12, e0179656.	2.5	25
23	Topology of the Erasmus student mobility network. Physica A: Statistical Mechanics and Its Applications, 2011, 390, 2601-2610.	2.6	24
24	Synchronization of two-mode stochastic oscillators: a new model for rhythmic applause and much more. Physica A: Statistical Mechanics and Its Applications, 2003, 321, 238-247.	2.6	22
25	Income distribution patterns from a complete social security database. Physica A: Statistical Mechanics and Its Applications, 2012, 391, 5611-5619.	2.6	19
26	Gintropy: Gini Index Based Generalization of Entropy. Entropy, 2020, 22, 879.	2.2	17
27	A spatially explicit model for tropical tree diversity patterns. Journal of Theoretical Biology, 2010, 265, 517-523.	1.7	15
28	An improved radiation model and its applicability for understanding commuting patterns in Hungary. Regional Statistics, 2016, 6, 27-38.	0.8	13
29	The rhythm of coupled metronomes. European Physical Journal B, 2013, 86, 1.	1.5	12
30	Phase transition in an optimal clusterization model. Physica A: Statistical Mechanics and Its Applications, 2006, 362, 357-368.	2.6	11
31	Shake-induced order in nanosphere systems. European Physical Journal E, 2007, 23, 153-159.	1.6	11
32	Fluctuations in hadronizing quark gluon plasma. Physical Review C, 2012, 85, .	2.9	11
33	Entropic Divergence and Entropy Related to Nonlinear Master Equations. Entropy, 2019, 21, 993.	2.2	11
34	Flickering candle flames and their collective behavior. Scientific Reports, 2020, 10, 21305.	3.3	11
35	Scaling in income inequalities and its dynamical origin. Physica A: Statistical Mechanics and Its Applications, 2020, 549, 124491.	2.6	11
36	The dripping faucet revisited. Chaos, 1996, 6, 59-62.	2.5	10

3

#	Article	IF	CITATIONS
37	A spring-block model for Barkhausen noise. Modelling and Simulation in Materials Science and Engineering, 2005, 13, 1341-1352.	2.0	10
38	Stochastic simulations on the cellular wave computers. European Physical Journal B, 2006, 51, 407-411.	1.5	10
39	Commuting patterns: the flow and jump model and supporting data. EPJ Data Science, 2018, 7, .	2.8	10
40	Pattern selection in a ring of Kuramoto oscillators. Communications in Nonlinear Science and Numerical Simulation, 2019, 78, 104868.	3.3	10
41	Criticality and pattern formation in fracture by residual stresses. Physical Review E, 2010, 82, 046118.	2.1	9
42	Chaos on the conveyor belt. Physical Review E, 2013, 87, 042920.	2.1	9
43	Kuramoto-type phase transition with metronomes. European Journal of Physics, 2013, 34, 1451-1463.	0.6	9
44	Dynamical stationarity as a result of sustained random growth. Physical Review E, 2017, 95, 032130.	2.1	9
45	PERSPECTIVES FOR MONTE CARLO SIMULATIONS ON THE CNN UNIVERSAL MACHINE. International Journal of Modern Physics C, 2006, 17, 909-922.	1.7	8
46	Kinetic Monte Carlo approach for triangularâ€shaped Pt islands on Pt(111) surfaces. Physica Status Solidi (B): Basic Research, 2012, 249, 1709-1716.	1.5	8
47	A spring–block analogy for the dynamics of stock indexes. Physica A: Statistical Mechanics and Its Applications, 2015, 427, 122-131.	2.6	8
48	Further We Travel the Faster We Go. PLoS ONE, 2016, 11, e0148913.	2.5	8
49	Statistical physics on cellular neural network computers. Physica D: Nonlinear Phenomena, 2008, 237, 1226-1234.	2.8	7
50	Spring-block approach for nanobristle patterns. Chemical Physics Letters, 2011, 511, 378-383.	2.6	7
51	Earthquake model describes traffic jams caused by imperfect driving styles. Physica A: Statistical Mechanics and Its Applications, 2012, 391, 5727-5738.	2.6	7
52	Transient Dynamics in the Random Growth and Reset Model. Entropy, 2021, 23, 306.	2.2	7
53	Wealth distribution in modern societies: Collected data and a master equation approach. Physica A: Statistical Mechanics and Its Applications, 2021, 581, 126194.	2.6	7
54	Collective behavior of electronic fireflies. European Physical Journal B, 2008, 65, 271-277.	1.5	6

#	Article	IF	CITATIONS
55	Correlation clustering on networks. Journal of Physics A: Mathematical and Theoretical, 2009, 42, 345003.	2.1	6
56	Spring-Block Model Reveals Region-Like Structures. PLoS ONE, 2011, 6, e16518.	2.5	6
57	Spring-block model for a single-lane highway traffic. Open Physics, 2011, 9, 1002-1009.	1.7	6
58	Oscillations and collective behavior in convective flows. Physics of Fluids, 2021, 33, .	4.0	6
59	Flatness of the setting Sun. American Journal of Physics, 2003, 71, 379-385.	0.7	5
60	Disorder-driven phase transition in a spring-block type magnetization model. Physics Letters, Section A: General, Atomic and Solid State Physics, 2007, 361, 18-23.	2.1	5
61	Cellular Neural Networks for NP-Hard Optimization. Eurasip Journal on Advances in Signal Processing, 2009, 2009, .	1.7	5
62	Entropic Distance for Nonlinear Master Equation. Universe, 2018, 4, 10.	2.5	5
63	Cellular neural networks for NP-hard optimization. , 2008, , .		4
64	Nontrivial spontaneous synchronization. Physical Review E, 2009, 79, 056205.	2.1	4
65	A Kinetic Monte Carlo Approach for Self-Diffusion of Pt Atom Clusters on a Pt(111) Surface. Communications in Computational Physics, 2011, 10, 920-939.	1.7	4
66	The complex parameter space of a two-mode oscillator model. Physica D: Nonlinear Phenomena, 2013, 256-257, 43-50.	2.8	4
67	Time-scale effects on the gain-loss asymmetry in stock indices. Physical Review E, 2016, 94, 022311.	2.1	4
68	Synchronization patterns in rings of time-delayed Kuramoto oscillators. Communications in Nonlinear Science and Numerical Simulation, 2021, 93, 105505.	3.3	4
69	Random Number Generator and Monte Carlo type Simulations on the CNN-UM. , 2006, , .		3
70	<title>Controlled deposition of photonic polystyrene-nanosphere films</title> ., 2007, , .		3
71	Wealth distribution in modern and medieval societies. European Physical Journal: Special Topics, 2007, 143, 81-85.	2.6	3
72	The Boltzmann constant from a snifter. European Journal of Physics, 2012, 33, 455-465.	0.6	3

#	Article	IF	CITATIONS
73	A seed-diffusion model for tropical tree diversity patterns. Physica A: Statistical Mechanics and Its Applications, 2012, 391, 4798-4806.	2.6	3
74	Gambler's ruin problem on Erdős–Rényi graphs. Physica A: Statistical Mechanics and Its Applications, 2017, 468, 147-157.	2.6	3
75	Equilibrium distributions in entropy driven balanced processes. Physica A: Statistical Mechanics and Its Applications, 2017, 474, 355-362.	2.6	3
76	Cell-size distribution and scaling in a one-dimensional Kolmogorov-Johnson-Mehl-Avrami lattice model with continuous nucleation. Physical Review E, 2017, 96, 042145.	2.1	3
77	Wealth Distribution in Villages. Transition From Socialism to Capitalism in View of Exhaustive Wealth Data and a Master Equation Approach. Frontiers in Physics, 2022, 10, .	2.1	3
78	f-Gintropy: An Entropic Distance Ranking Based on the Gini Index. Entropy, 2022, 24, 407.	2.2	3
79	MOLECULAR DYNAMICS APPROACH TO CORRELATION CLUSTERING. International Journal of Modern Physics C, 2008, 19, 1349-1358.	1.7	2
80	Stochastic optimization of spin-glasses on cellular neural/nonlinear network based processors. Physica A: Statistical Mechanics and Its Applications, 2009, 388, 1024-1030.	2.6	2
81	Unexpected synchronization. Journal of Physics: Conference Series, 2009, 182, 012026.	0.4	2
82	Spring-block approach for crack patterns in glass. Open Physics, 2012, 10, .	1.7	2
83	Kinetic roughening of a soft dewetting line under quenched disorder: A numerical study. Physical Review E, 2014, 90, 052404.	2.1	2
84	The advantage of inhomogeneity — Lessons from a noise driven linearized dynamical system. Physica A: Statistical Mechanics and Its Applications, 2016, 445, 310-317.	2.6	2
85	Scaling in the space-time of the Internet. Scientific Reports, 2019, 9, 9734.	3.3	2
86	WINNING STRATEGIES IN CONGESTED TRAFFIC. International Journal of Modern Physics C, 2012, 23, 1250063.	1.7	1
87	Walkie-talkie measurements for the speed of radio waves in air. Physics Education, 2013, 48, 80-86.	0.5	1
88	A kinetic Monte Carlo study for stripe-like magnetic domains in ferrimagnetic thin films. Open Physics, 2013, 11, .	1.7	1
89	Fragmentation of drying paint layers. , 2013, , .		1
90	Sync or anti-sync – dynamical pattern selection in coupled self-sustained oscillator systems. Journal of Physics: Conference Series, 2014, 510, 012009.	0.4	1

#	Article	IF	CITATIONS
91	Order and disorder in coupled metronome systems. European Physical Journal: Special Topics, 2014, 223, 649-663.	2.6	1
92	Collective behavior of electronic fireflies. , 2008, 65, 271.		1
93	Hierarchical Settlement Networks. Regional Statistics, 2013, 3, 30-40.	0.8	1
94	Rheology of Concentrated Suspensions: A Lattice Model. , 2005, , 639-645.		0
95	Periodicity enhancement of two-mode stochastic oscillators in a CNN type architecture. , 2010, , .		0
96	Synchronization of flashing electronic oscillators. , 2011, , .		0
97	OPTIMIZATION INDUCED COLLECTIVE BEHAVIOR IN A SYSTEM OF FLASHING OSCILLATORS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2012, 22, 1230002.	1.7	0
98	Universality in the coarse-grained fluctuations for a class of linear dynamical systems. Physica A: Statistical Mechanics and Its Applications, 2018, 503, 215-220.	2.6	0
99	The Space-time of Physics: a Kinetic Space. Hungarian Studies Yearbook, 2019, 1, 10-24.	0.2	0
100	Cross-Correlations in the Brownian Motion of Colloidal Nanoparticles. Studia Universitatis BabeÈ™-Bolyai Physica, 2020, 65, 27-34.	0.0	0