

# Osame Kinouchi

## List of Publications by Year in descending order

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Version: 2024-02-01

68  
papers

2,575  
citations

318942

23  
h-index

223390

49  
g-index

70  
all docs

70  
docs citations

70  
times ranked

2327  
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimal dynamical range of excitable networks at criticality. <i>Nature Physics</i> , 2006, 2, 348-351.	6.5	673
2	Is it possible to compare researchers with different scientific interests?. <i>Scientometrics</i> , 2006, 68, 179-189.	1.6	416
3	Speech Graphs Provide a Quantitative Measure of Thought Disorder in Psychosis. <i>PLoS ONE</i> , 2012, 7, e34928.	1.1	173
4	Optimal generalization in perceptions. <i>Journal of Physics A</i> , 1992, 25, 6243-6250.	1.6	119
5	Deterministic Walks in Random Media. <i>Physical Review Letters</i> , 2001, 87, 010603.	2.9	68
6	Phase transitions and self-organized criticality in networks of stochastic spiking neurons. <i>Scientific Reports</i> , 2016, 6, 35831.	1.6	65
7	A brief history of excitable map-based neurons and neural networks. <i>Journal of Neuroscience Methods</i> , 2013, 220, 116-130.	1.3	62
8	Physics of psychophysics: Stevens and Weber-Fechner laws are transfer functions of excitable media. <i>Physical Review E</i> , 2002, 65, 060901.	0.8	60
9	Active Dendrites Enhance Neuronal Dynamic Range. <i>PLoS Computational Biology</i> , 2009, 5, e1000402.	1.5	53
10	Thesaurus as a complex network. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2004, 344, 530-536.	1.2	45
11	Deterministic walks in random networks: an application to thesaurus graphs. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2002, 315, 665-676.	1.2	42
12	Robustness of scale invariance in models with self-organized criticality. <i>Physical Review E</i> , 1999, 59, 4964-4969.	0.8	37
13	The non-equilibrium nature of culinary evolution. <i>New Journal of Physics</i> , 2008, 10, 073020.	1.2	35
14	Can dynamical synapses produce true self-organized criticality?. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2015, 2015, P06004.	0.9	34
15	Stochastic oscillations and dragon king avalanches in self-organized quasi-critical systems. <i>Scientific Reports</i> , 2019, 9, 3874.	1.6	34
16	Synaptic balance due to homeostatically self-organized quasicritical dynamics. <i>Physical Review Research</i> , 2020, 2, .	1.3	34
17	MODELING NEURONS BY SIMPLE MAPS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 1996, 06, 2343-2360.	0.7	31
18	Single-neuron criticality optimizes analog dendritic computation. <i>Scientific Reports</i> , 2013, 3, 3222.	1.6	30

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19	Lower bounds on generalization errors for drifting rules. <i>Journal of Physics A</i> , 1993, 26, 6161-6171.	1.6	28
20	Self-Organized Supercriticality and Oscillations in Networks of Stochastic Spiking Neurons. <i>Entropy</i> , 2017, 19, 399.	1.1	27
21	Signal compression in the sensory periphery. <i>Neurocomputing</i> , 2005, 65-66, 691-696.	3.5	25
22	Learning algorithm that gives the Bayes generalization limit for perceptrons. <i>Physical Review E</i> , 1996, 54, R54-R57.	0.8	24
23	A minimal model for excitable and bursting elements. <i>Neurocomputing</i> , 2001, 38-40, 255-261.	3.5	24
24	Rheology of the gelation process of silica gel. <i>Journal of Non-Crystalline Solids</i> , 1988, 105, 191-197.	1.5	23
25	Escaping from cycles through a glass transition. <i>Physical Review E</i> , 2003, 68, 016104.	0.8	23
26	Intensity coding in two-dimensional excitable neural networks. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2005, 349, 431-442.	1.2	22
27	Deterministic walks as an algorithm of pattern recognition. <i>Physical Review E</i> , 2006, 74, 026703.	0.8	22
28	Correlations induced by depressing synapses in critically self-organized networks with quenched dynamics. <i>Physical Review E</i> , 2017, 95, 042303.	0.8	21
29	Statistical Mechanics of Online Learning of Drifting Concepts: A Variational Approach. <i>Machine Learning</i> , 1998, 32, 179-201.	3.4	20
30	Exploratory behavior, trap models, and glass transitions. <i>Physical Review E</i> , 2004, 69, 017101.	0.8	20
31	Statistical physics approach to dendritic computation: The excitable-wave mean-field approximation. <i>Physical Review E</i> , 2012, 85, 011911.	0.8	20
32	Equivalence between learning in noisy perceptrons and tree committee machines. <i>Physical Review E</i> , 1996, 53, 6341-6352.	0.8	18
33	Random-neighbor Olami-Feder-Christensen slip-stick model. <i>Physical Review E</i> , 1998, 58, 3997-4000.	0.8	18
34	Lobby index as a network centrality measure. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2013, 392, 5511-5515.	1.2	18
35	Critical avalanches and subsampling in map-based neural networks coupled with noisy synapses. <i>Physical Review E</i> , 2013, 88, 024701.	0.8	18
36	Scaling law for the transient behavior of type-II neuron models. <i>Physical Review E</i> , 2007, 75, 021911.	0.8	17

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37	Noise robustness in multilayer neural networks. <i>Europhysics Letters</i> , 1997, 37, 427-432.	0.7	16
38	Stability diagrams for bursting neurons modeled by three-variable maps. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2004, 342, 263-269.	1.2	16
39	Conway's game of life is a near-critical metastable state in the multiverse of cellular automata. <i>Physical Review E</i> , 2014, 89, 052123.	0.8	16
40	Mechanisms of Self-Organized Quasicriticality in Neuronal Network Models. <i>Frontiers in Physics</i> , 2020, 8, .	1.0	16
41	On-line versus off-line learning in the linear perceptron: A comparative study. <i>Physical Review E</i> , 1995, 52, 2878-2886.	0.8	12
42	Time ordering in the evolution of information processing and modulation systems. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1998, 77, 1565-1574.	0.6	11
43	A unified theory of E/I synaptic balance, quasicritical neuronal avalanches and asynchronous irregular spiking. <i>Journal of Physics Complexity</i> , 2021, 2, 045001.	0.9	11
44	Hirsch's index: a case study conducted at the Faculdade de Filosofia, Ciências e Letras de Ribeirão Preto, Universidade de São Paulo. <i>Brazilian Journal of Medical and Biological Research</i> , 2007, 40, 1529-1536.	0.7	8
45	Neuronal avalanches in Watts-Strogatz networks of stochastic spiking neurons. <i>Physical Review E</i> , 2021, 104, 014137.	0.8	8
46	Invasion percolation solves Fermi Paradox but challenges SETI projects. <i>International Journal of Astrobiology</i> , 2019, 18, 316-322.	0.9	7
47	Metáforas científicas no discurso jornalístico. <i>Revista Brasileira De Ensino De Fisica</i> , 2012, 34, 1-12.	0.2	7
48	Biased learning in Boolean perceptrons. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1992, 185, 411-416.	1.2	6
49	Absence of self-organized criticality in a random-neighbor version of the OFC stick-slip model. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1998, 257, 488-494.	1.2	5
50	A simple centrality index for scientific social recognition. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2018, 491, 632-640.	1.2	5
51	Character networks and book genre classification. <i>International Journal of Modern Physics C</i> , 2019, 30, 1950058.	0.8	5
52	Homeostatic criticality in neuronal networks. <i>Chaos, Solitons and Fractals</i> , 2022, 156, 111877.	2.5	5
53	Nonsynchronous updating in the multiverse of cellular automata. <i>Physical Review E</i> , 2015, 91, 042110.	0.8	4
54	Learning a spin glass: Determining Hamiltonians from metastable states. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1998, 257, 28-35.	1.2	3

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55	Optimal pruning in neural networks. <i>Physical Review E</i> , 2000, 62, 8387-8394.	0.8	3
56	O estado da blogosfera científica brasileira. <i>Em Questão</i> , 0, , 274-289.	0.1	3
57	Physics of psychophysics: Large dynamic range in critical square lattices of spiking neurons. <i>Physical Review Research</i> , 2020, 2, .	1.3	3
58	Chaotic itinerancy, temporal segmentation and spatio-temporal combinatorial codes. <i>Physica D: Nonlinear Phenomena</i> , 2008, 237, 1-5.	1.3	2
59	A reliable measure of similarity based on dependency for short time series: an application to gene expression networks. <i>BMC Bioinformatics</i> , 2009, 10, 270.	1.2	1
60	Dynamical phase diagrams of neural networks with asymmetric couplings. <i>Physical Review E</i> , 1997, 55, 7344-7353.	0.8	0
61	Physics of psychophysics: optimal dynamic range of critical excitable networks. <i>BMC Neuroscience</i> , 2007, 8, .	0.8	0
62	Signal propagation and neuronal avalanches analysis in networks of formal neurons. <i>BMC Neuroscience</i> , 2011, 12, .	0.8	0
63	The K-index and the hubs of science. <i>European Heart Journal</i> , 2018, 39, 3489-3490.	1.0	0
64	Medindo a massa inercial usando uma balança romana. <i>Revista Brasileira De Ensino De Fisica</i> , 0, 43, .	0.2	0
65	Time ordering in the evolution of information processing and modulation systems. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1998, 77, 1565-1574.	0.6	0
66	A generalization of Graded Response Formal Neurons. , 0, , .		0
67	Prime numbers and random walks in a square grid. <i>Physical Review E</i> , 2021, 104, 054114.	0.8	0
68	A analogia entre ondas eletromagnéticas e elastodinâmica linear. <i>Revista Brasileira De Ensino De Fisica</i> , 0, 44, .	0.2	0