

Ido Kanter

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

1,356
citations

430874

18
h-index

345221

36
g-index

53
all docs

53
docs citations

53
times ranked

1014
citing authors

#	ARTICLE	IF	CITATIONS
1	Long anisotropic absolute refractory periods with rapid rise times to reliable responsiveness. <i>Physical Review E</i> , 2022, 105, 014401.	2.1	4
2	Efficient dendritic learning as an alternative to synaptic plasticity hypothesis. <i>Scientific Reports</i> , 2022, 12, 6571.	3.3	20
3	Significant anisotropic neuronal refractory period plasticity. <i>Europhysics Letters</i> , 2021, 134, 60007.	2.0	4
4	Power-law scaling to assist with key challenges in artificial intelligence. <i>Scientific Reports</i> , 2020, 10, 19628.	3.3	9
5	Brain experiments imply adaptation mechanisms which outperform common AI learning algorithms. <i>Scientific Reports</i> , 2020, 10, 6923.	3.3	6
6	A minority of self-organizing autonomous vehicles significantly increase freeway traffic flow. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2020, 53, 414001.	2.1	6
7	Biological learning curves outperform existing ones in artificial intelligence algorithms. <i>Scientific Reports</i> , 2019, 9, 11558.	3.3	9
8	Mutual coupling and synchronization of optically coupled quantum-dot micropillar lasers at ultra-low light levels. <i>Nature Communications</i> , 2019, 10, 1539.	12.8	25
9	Dendritic Learning as a Paradigm Shift in Brain Learning. <i>ACS Chemical Neuroscience</i> , 2018, 9, 1230-1232.	3.5	5
10	Adaptive nodes enrich nonlinear cooperative learning beyond traditional adaptation by links. <i>Scientific Reports</i> , 2018, 8, 5100.	3.3	19
11	Stationary log-normal distribution of weights stems from spontaneous ordering in adaptive node networks. <i>Scientific Reports</i> , 2018, 8, 13091.	3.3	4
12	Less Might Be More: Conduction Failure as a Factor Possibly Limiting the Efficacy of Higher Frequencies in rTMS Protocols. <i>Frontiers in Neuroscience</i> , 2018, 12, 358.	2.8	5
13	Oscillations in networks of networks stem from adaptive nodes with memory. <i>Scientific Reports</i> , 2017, 7, 2700.	3.3	4
14	Fast reversible learning based on neurons functioning as anisotropic multiplex hubs. <i>Europhysics Letters</i> , 2017, 118, 46002.	2.0	7
15	New Types of Experiments Reveal that a Neuron Functions as Multiple Independent Threshold Units. <i>Scientific Reports</i> , 2017, 7, 18036.	3.3	47
16	Mimicking Collective Firing Patterns of Hundreds of Connected Neurons using a Single-Neuron Experiment. <i>Frontiers in Neuroscience</i> , 2016, 9, 508.	2.8	4
17	Simultaneous multi-patch-clamp and extracellular-array recordings: Single neuron reflects network activity. <i>Scientific Reports</i> , 2016, 6, 36228.	3.3	30
18	Vitality of Neural Networks under Reoccurring Catastrophic Failures. <i>Scientific Reports</i> , 2016, 6, 31674.	3.3	5

#	ARTICLE	IF	CITATIONS
19	Neuronal response impedance mechanism implementing cooperative networks with low firing rates and $\frac{1}{4}$ s precision. <i>Frontiers in Neural Circuits</i> , 2015, 9, 29.	2.8	18
20	Broadband macroscopic cortical oscillations emerge from intrinsic neuronal response failures. <i>Frontiers in Neural Circuits</i> , 2015, 9, 65.	2.8	13
21	Synchronization among neuronal pools without common inputs: in vivo study. <i>Brain Structure and Function</i> , 2015, 220, 3721-3731.	2.3	11
22	Chaos synchronization in networks of semiconductor superlattices. <i>Europhysics Letters</i> , 2015, 112, 30007.	2.0	12
23	A computational paradigm for dynamic logic-gates in neuronal activity. <i>Frontiers in Computational Neuroscience</i> , 2014, 8, 52.	2.1	32
24	Error correction and fast detectors implemented by ultrafast neuronal plasticity. <i>Physical Review E</i> , 2014, 89, 042712.	2.1	4
25	Chaotic and non-chaotic phases in experimental responses of a single neuron. <i>Europhysics Letters</i> , 2014, 106, 46002.	2.0	4
26	Cluster synchronization in large laser networks. <i>IEICE Proceeding Series</i> , 2014, 1, 61-64.	0.0	0
27	Synthetic reverberating activity patterns embedded in networks of cortical neurons. <i>IEICE Proceeding Series</i> , 2014, 1, 386-386.	0.0	0
28	Fast Physical Random-Number Generation Based on Room-Temperature Chaotic Oscillations in Weakly Coupled Superlattices. <i>Physical Review Letters</i> , 2013, 111, 044102.	7.8	63
29	Synchronization by elastic neuronal latencies. <i>Physical Review E</i> , 2013, 87, 012724.	2.1	9
30	Strong and Weak Chaos in Nonlinear Networks with Time-Delayed Couplings. <i>Physical Review Letters</i> , 2011, 107, 234102.	7.8	111
31	Nonlocal Mechanism for Synchronization of Time Delay Networks. <i>Journal of Statistical Physics</i> , 2011, 145, 713-733.	1.2	6
32	An optical ultrafast random bit generator. <i>Nature Photonics</i> , 2010, 4, 58-61.	31.4	413
33	Synchronization of random bit generators based on coupled chaotic lasers and application to cryptography. <i>Optics Express</i> , 2010, 18, 18292.	3.4	59
34	Public Channel Cryptography: Chaos Synchronization and Hilbert's Tenth Problem. <i>Physical Review Letters</i> , 2008, 101, 084102.	7.8	56
35	Spiking optical patterns and synchronization. <i>Physical Review E</i> , 2007, 76, 046207.	2.1	23
36	Synchronization of Mutually Coupled Chaotic Lasers in the Presence of a Shutter. <i>Physical Review Letters</i> , 2007, 98, 154101.	7.8	28

#	ARTICLE	IF	CITATIONS
37	Identifying universals of text translation*. Journal of Quantitative Linguistics, 2006, 13, 35-43.	1.2	12
38	Outsourcing the Complexity of Detection in MIMO Channels. , 2006, , .		0
39	The Entropy of a Binary Hidden Markov Process. Journal of Statistical Physics, 2005, 121, 343-360.	1.2	32
40	THE THEORY OF NEURAL NETWORKS AND CRYPTOGRAPHY. , 2003, , .		18
41	Mutual learning in a tree parity machine and its application to cryptography. Physical Review E, 2002, 66, 066135.	2.1	54
42	Title is missing!. Journal of Statistical Physics, 2001, 105, 719-720.	1.2	0
43	Multichoice minority game. Physical Review E, 2001, 63, 066103.	2.1	15
44	Multilayer Neural Networks with Extensively Many Hidden Units. Physical Review Letters, 2001, 87, 078101.	7.8	7
45	Cascading parity-check error-correcting codes. Physical Review E, 2000, 61, 2137-2140.	2.1	25
46	Statistical properties of contact maps. Physical Review E, 1999, 59, 977-984.	2.1	36
47	Error-Correcting Codes That Nearly Saturate Shannon's Bound. Physical Review Letters, 1999, 83, 2660-2663.	7.8	46
48	Learnability of periodic activation functions: General results. Physical Review E, 1998, 58, 3606-3609.	2.1	11
49	ON THE EQUIVALENCE OF TWO-LAYERED PERCEPTRONS WITH BINARY NEURONS. International Journal of Neural Systems, 1995, 06, 225-231.	5.2	2
50	Computational capabilities of restricted two-layered perceptrons. Physical Review E, 1994, 50, 577-595.	2.1	19
51	Secure Communication with Chaos Synchronization. , 0, , 301-324.		4