Avner Priel

List of Publications by Year
in descending order

33 papers	**944** citations	623734 **14** h-index	552781 **26** g-index
35 all docs	**35** docs citations	**35** times ranked	**1482** citing authors

#	Article	IF	Citations
1	Metabolic control of type 1 regulatory T cell differentiation by AHR and HIF1-α. Nature Medicine, 2015, 21, 638-646.	30.7	374
2	A Biopolymer Transistor: Electrical Amplification by Microtubules. Biophysical Journal, 2006, 90, 4639-4643.	0.5	115
3	Neural cytoskeleton capabilities for learning and memory. Journal of Biological Physics, 2010, 36, 3-21.	1.5	62
4	Transitions in microtubule C-termini conformations as a possible dendritic signaling phenomenon. European Biophysics Journal, 2005, 35, 40-52.	2.2	52
5	Model of ionic currents through microtubule nanopores and the lumen. Physical Review E, 2010, 81, 051912.	2.1	39
6	MICROTUBULE IONIC CONDUCTION AND ITS IMPLICATIONS FOR HIGHER COGNITIVE FUNCTIONS. Journal of Integrative Neuroscience, 2010, 09, 103-122.	1.7	38
7	A nonlinear cable-like model of amplified ionic wave propagation along microtubules. Europhysics Letters, 2008, 83, 68004.	2.0	37
8	Keeping time: Could quantum beating in microtubules be the basis for the neural synchrony related to consciousness?. Journal of Integrative Neuroscience, 2014, 13, 293-311.	1.7	30
9	Effect of Calcium on Electrical Energy Transfer by Microtubules. Journal of Biological Physics, 2008, 34, 475-485.	1.5	25
10	Analytical Study of Time Series Generation by Feed-Forward Networks. Physical Review Letters, 1995, 75, 2614-2617.	7.8	23
11	Computational capabilities of restricted two-layered perceptrons. Physical Review E, 1994, 50, 577-595.	2.1	19
12	Electrodynamic Signaling by the Dendritic Cytoskeleton: Toward an Intracellular Information Processing Model. Electromagnetic Biology and Medicine, 2005, 24, 221-231.	1.4	19
13	Nanoneuroscience. Biological and Medical Physics Series, 2010, , .	0.4	17
14	Robust chaos generation by a perceptron. Europhysics Letters, 2000, 51, 230-236.	2.0	15
15	Network Representation of T-Cell Repertoire— A Novel Tool to Analyze Immune Response to Cancer Formation. Frontiers in Immunology, 2018, 9, 2913.	4.8	15
16	The Dendritic Cytoskeleton as a Computational Device: An Hypothesis. , 2006, , 293-325.		15
17	Long-term properties of time series generated by a perceptron with various transfer functions. Physical Review E, 1999, 59, 3368-3375.	2.1	12
18	Time Series Generation by Recurrent Neural Networks. Annals of Mathematics and Artificial Intelligence, 2003, 39, 315-332.	1.3	8

#	Article	IF	Citations
19	Ionic Waves Propagation Along the Dendritic Cytoskeleton as a Signaling Mechanism. Advances in Molecular and Cell Biology, 2006, 37, 163-180.	0.1	8
20	Noisy time series generation by feed-forward networks. Journal of Physics A, 1998, 31, 1189-1209.	1.6	5
21	The Cytoskeleton as a Nanoscale Information Processor: Electrical Properties and an Actin-Microtubule Network Model. Biological and Medical Physics Series, 2009, , 85-127.	0.4	4
22	On the power of weak measurements in separating quantum states. Quantum Studies: Mathematics and Foundations, 2015, 2, 37-49.	0.9	3
23	A single nucleotide variant of human PARP1 determines response to PARP inhibitors. Npj Precision Oncology, 2020, 4, 10.	5.4	3
24	Nanotechnology, Nanostructure, and Nervous System Disorders. Biological and Medical Physics Series, 2009, , 177-226.	0.4	2
25	Mean first passage time in periodic attractors. Journal of Physics A, 2006, 39, 8603-8612.	1.6	1
26	Nanocarriers and Intracellular Transport: Moving Along the Cytoskeletal Matrix. Biological and Medical Physics Series, 2009, , 129-176.	0.4	1
27	A vectorial tree distance measure. Scientific Reports, 2022, 12, 5256.	3.3	1
28	Reversibility and efficiency in coding protein information. Journal of Theoretical Biology, 2010, 267, 519-525.	1.7	0
29	Channel Capacity and Rate Distortion in Amino Acid Networks. , 2017, , 187-202.		0
30	Econophysics of a ranked demand and supply resource allocation problem. Physica A: Statistical Mechanics and Its Applications, 2018, 490, 745-753.	2.6	0
31	Novel Modes of Neural Computation: From Nanowires to Mind. Biological and Medical Physics Series, 2009, , 227-273.	0.4	0
32	Introducing Nanoneuroscience as a Distinct Discipline. Biological and Medical Physics Series, 2009, , 1-34.	0.4	0
33	Nanoscale Components of Neurons: From Biomolecules to Nanodevices. Biological and Medical Physics Series, 2009, , 35-84.	0.4	0