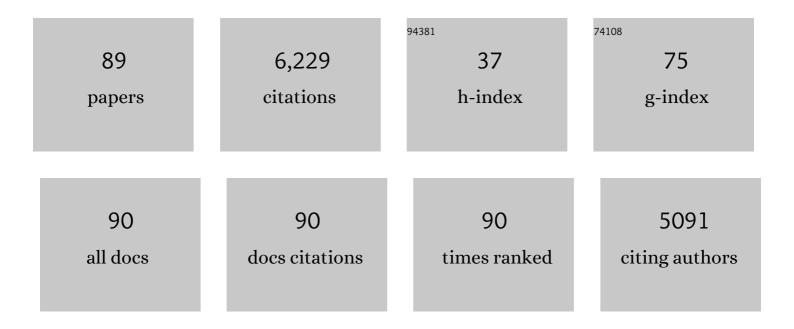
## John A White

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Kinetics and Connectivity Properties of Parvalbumin- and Somatostatin-Positive Inhibition in Layer 2/3 Medial Entorhinal Cortex. ENeuro, 2022, 9, ENEURO.0441-21.2022.	0.9	18
2	Effects of Axonal Demyelination, Inflammatory Cytokines and Divalent Cation Chelators on Thalamic HCN Channels and Oscillatory Bursting. International Journal of Molecular Sciences, 2022, 23, 6285.	1.8	5
3	Determining the optimal expression method for dual-color imaging. Journal of Neuroscience Methods, 2021, 351, 109064.	1.3	1
4	Non-genetic photoacoustic stimulation of single neurons by a tapered fiber optoacoustic emitter. Light: Science and Applications, 2021, 10, 143.	7.7	27
5	Voltage Imaging of Cardiac Cells and Tissue Using the Genetically Encoded Voltage Sensor Archon1. IScience, 2020, 23, 100974.	1.9	5
6	CaMKIIα-Positive Interneurons Identified via a microRNA-Based Viral Gene Targeting Strategy. Journal of Neuroscience, 2020, 40, 9576-9588.	1.7	15
7	Core Competencies for Undergraduates in Bioengineering and Biomedical Engineering: Findings, Consequences, and Recommendations. Annals of Biomedical Engineering, 2020, 48, 905-912.	1.3	37
8	Ultrastructural and functional changes at the tripartite synapse during epileptogenesis in a model of temporal lobe epilepsy. Experimental Neurology, 2020, 326, 113196.	2.0	24
9	A model of cholinergic suppression of hippocampal ripples through disruption of balanced excitation/inhibition. Hippocampus, 2019, 29, 773-786.	0.9	7
10	Balanced synaptic currents underlie lowâ€frequency oscillations in the subiculum. Hippocampus, 2019, 29, 1178-1189.	0.9	2
11	Voltage-Dependent Membrane Properties Shape the Size But Not the Frequency Content of Spontaneous Voltage Fluctuations in Layer 2/3 Somatosensory Cortex. Journal of Neuroscience, 2019, 39, 2221-2237.	1.7	7
12	Editorial overview: high-resolution brain cell imaging. Current Opinion in Biomedical Engineering, 2019, 12, A4-A5.	1.8	0
13	Conditional Knock-out of mGluR5 from Astrocytes during Epilepsy Development Impairs High-Frequency Glutamate Uptake. Journal of Neuroscience, 2019, 39, 727-742.	1.7	40
14	Differences in the Electrophysiological Properties of Mouse Somatosensory Layer 2/3 Neurons <i>In Vivo</i> and Slice Stem from Intrinsic Sources Rather than a Network-Generated High Conductance State. ENeuro, 2018, 5, ENEURO.0447-17.2018.	0.9	20
15	Mathematical investigation of IP3-dependent calcium dynamics in astrocytes. Journal of Computational Neuroscience, 2017, 42, 257-273.	0.6	28
16	Diversity of Evoked Astrocyte Ca2+ Dynamics Quantified through Experimental Measurements and Mathematical Modeling. Frontiers in Systems Neuroscience, 2017, 11, 79.	1.2	27
17	Hard real-time closed-loop electrophysiology with the Real-Time eXperiment Interface (RTXI). PLoS Computational Biology, 2017, 13, e1005430.	1.5	55
18	Anatomical and Electrophysiological Clustering of Superficial Medial Entorhinal Cortex Interneurons. ENeuro, 2017, 4, ENEURO.0263-16.2017.	0.9	22

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19	Gain Modulation of Cholinergic Neurons in the Medial Septumâ€Diagonal Band of Broca Through Hyperpolarization. Hippocampus, 2016, 26, 1525-1541.	0.9	5
20	Cover Image, Volume 26, Issue 12. Hippocampus, 2016, 26, C1-C1.	0.9	0
21	Repeated low-dose kainate administration in C57BL/6J mice produces temporal lobe epilepsy pathology but infrequent spontaneous seizures. Experimental Neurology, 2016, 279, 116-126.	2.0	33
22	Imaging activity in astrocytes and neurons with genetically encoded calcium indicators following in utero electroporation. Frontiers in Molecular Neuroscience, 2015, 8, 10.	1.4	31
23	Non-linear Membrane Properties in Entorhinal Cortical Stellate Cells Reduce Modulation of Input-Output Responses by Voltage Fluctuations. PLoS Computational Biology, 2015, 11, e1004188.	1.5	14
24	Resonant Interneurons Can Increase Robustness of Gamma Oscillations. Journal of Neuroscience, 2015, 35, 15682-15695.	1.7	94
25	Altered structure and function of astrocytes following status epilepticus. Epilepsy and Behavior, 2015, 49, 17-19.	0.9	22
26	Nonlinear properties of medial entorhinal cortex neurons reveal frequency selectivity during multi-sinusoidal stimulation. Frontiers in Cellular Neuroscience, 2014, 8, 239.	1.8	0
27	The Past, Present, and Future of Real-Time Control in Cellular Electrophysiology. IEEE Transactions on Biomedical Engineering, 2014, 61, 1448-1456.	2.5	8
28	Imaging Activity in Neurons and Glia with a Polr2a-Based and Cre-Dependent GCaMP5G-IRES-tdTomato Reporter Mouse. Neuron, 2014, 83, 1058-1072.	3.8	120
29	Membrane potentialâ€dependent integration of synaptic inputs in entorhinal stellate neurons. Hippocampus, 2014, 24, 1493-1505.	0.9	11
30	Dynamic Clamp in Cardiac and Neuronal Systems Using RTXI. Methods in Molecular Biology, 2014, 1183, 327-354.	0.4	23
31	Optical Dissection of Odor Information Processing <i>In Vivo</i> Using GCaMPs Expressed in Specified Cell Types of the Olfactory Bulb. Journal of Neuroscience, 2013, 33, 5285-5300.	1.7	119
32	Place cell activation predicts subsequent memory. Behavioural Brain Research, 2013, 254, 65-72.	1.2	27
33	Entorhinal Stellate Cells Show Preferred Spike Phase-Locking to Theta Inputs That Is Enhanced by Correlations in Synaptic Activity. Journal of Neuroscience, 2013, 33, 6027-6040.	1.7	18
34	Hippocampal "Time Cells― Time versus Path Integration. Neuron, 2013, 78, 1090-1101.	3.8	414
35	Spike Resonance Properties in Hippocampal O-LM Cells Are Dependent on Refractory Dynamics. Journal of Neuroscience, 2012, 32, 3637-3651.	1.7	59
36	Spike Phase Locking in CA1 Pyramidal Neurons Depends on Background Conductance and Firing Rate. Journal of Neuroscience, 2012, 32, 14374-14388.	1.7	42

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37	Pyramidal cells accumulate chloride at seizure onset. Neurobiology of Disease, 2012, 47, 358-366.	2.1	115
38	Short Conduction Delays Cause Inhibition Rather than Excitation to Favor Synchrony in Hybrid Neuronal Networks of the Entorhinal Cortex. PLoS Computational Biology, 2012, 8, e1002306.	1.5	29
39	Membrane Properties and the Balance between Excitation and Inhibition Control Gamma-Frequency Oscillations Arising from Feedback Inhibition. PLoS Computational Biology, 2012, 8, e1002354.	1.5	46
40	GenNet: A Platform for Hybrid Network Experiments. Frontiers in Neuroinformatics, 2011, 5, 11.	1.3	14
41	Membrane Voltage Fluctuations Reduce Spike Frequency Adaptation and Preserve Output Gain in CA1 Pyramidal Neurons in a High-Conductance State. Journal of Neuroscience, 2011, 31, 3880-3893.	1.7	47
42	Gain Control in CA1 Pyramidal Cells Using Changes in Somatic Conductance. Journal of Neuroscience, 2010, 30, 230-241.	1.7	45
43	Phase-response curves and synchronized neural networks. Philosophical Transactions of the Royal Society B: Biological Sciences, 2010, 365, 2407-2422.	1.8	155
44	Real-time Experiment Interface for biological control applications. , 2010, 2010, 4160-3.		37
45	Dynamic Clamp: Alteration of Response Properties and Creation of Virtual Realities in Neurophysiology. Journal of Neuroscience, 2010, 30, 2407-2413.	1.7	31
46	The Mechanism of Abrupt Transition between Theta and Hyper-Excitable Spiking Activity in Medial Entorhinal Cortex Layer II Stellate Cells. PLoS ONE, 2010, 5, e13697.	1.1	24
47	Mechanisms of coherent activity in hippocampus and entorhinal cortex. , 2009, 2009, 4226-7.		Ο
48	Glycinergic Inhibition in the Hippocampus. Reviews in the Neurosciences, 2009, 20, 13-22.	1.4	31
49	Reduction of Spike Afterdepolarization by Increased Leak Conductance Alters Interspike Interval Variability. Journal of Neuroscience, 2009, 29, 973-986.	1.7	18
50	Dynamical Instability Determines the Effect of Ongoing Noise on Neural Firing. JARO - Journal of the Association for Research in Otolaryngology, 2009, 10, 251-267.	0.9	12
51	Using "Hard―Real-Time Dynamic Clamp to Study Cellular and Network Mechanisms of Synchronization in the Hippocampal Formation. , 2009, , 199-215.		1
52	Effects of imperfect dynamic clamp: Computational and experimental results. Journal of Neuroscience Methods, 2008, 169, 282-289.	1.3	57
53	Two-photon imaging of spatially extended neuronal network dynamics with high temporal resolution. Journal of Neuroscience Methods, 2008, 172, 178-184.	1.3	92
54	Frequency-Dependent Glycinergic Inhibition Modulates Plasticity in Hippocampus. Journal of Neuroscience, 2008, 28, 7359-7369.	1.7	21

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55	Artificial Synaptic Conductances Reduce Subthreshold Oscillations and Periodic Firing in Stellate Cells of the Entorhinal Cortex. Journal of Neuroscience, 2008, 28, 3790-3803.	1.7	73
56	Development of Theta Rhythmicity in Entorhinal Stellate Cells of the Juvenile Rat. Journal of Neurophysiology, 2008, 100, 3144-3157.	0.9	33
57	Control of Neuronal Persistent Activity by Voltage-Dependent Dendritic Properties. Journal of Neurophysiology, 2008, 100, 1278-1286.	0.9	16
58	Disambiguation of Overlapping Experiences by Neurons in the Medial Entorhinal Cortex. Journal of Neuroscience, 2007, 27, 5787-5795.	1.7	74
59	Simple Models Show the General Advantages of Dendrites in Coincidence Detection. Journal of Neurophysiology, 2007, 97, 3449-3459.	0.9	19
60	Sniffing controls an adaptive filter of sensory input to the olfactory bulb. Nature Neuroscience, 2007, 10, 631-639.	7.1	346
61	Contributions of I h to feature selectivity in layer II stellate cells of the entorhinal cortex. Journal of Computational Neuroscience, 2007, 22, 161-171.	0.6	37
62	Roles of IA and morphology in action potential propagation in CA1 pyramidal cell dendrites. Journal of Computational Neuroscience, 2007, 23, 201-216.	0.6	10
63	Response: Implementation Issues in Approximate Methods for Stochastic Hodgkin-Huxley models. Annals of Biomedical Engineering, 2007, 35, 319-319.	1.3	2
64	The dynamic structure underlying subthreshold oscillatory activity and the onset of spikes in a model of medial entorhinal cortex stellate cells. Journal of Computational Neuroscience, 2006, 21, 271-292.	0.6	96
65	Low-Dimensional Maps Encoding Dynamics in Entorhinal Cortex and Hippocampus. Neural Computation, 2006, 18, 2617-2650.	1.3	43
66	Synaptic input statistics tune the variability and reproducibility of neuronal responses. Chaos, 2006, 16, 026105.	1.0	6
67	Slow and Fast Inhibition and an H-Current Interact to Create a Theta Rhythm in a Model of CA1 Interneuron Network. Journal of Neurophysiology, 2005, 94, 1509-1518.	0.9	150
68	Ion-Channel Noise Places Limits on the Miniaturization of the Brain's Wiring. Current Biology, 2005, 15, 1143-1149.	1.8	185
69	Beyond Two-Cell Networks: Experimental Measurement of Neuronal Responses to Multiple Synaptic Inputs. Journal of Computational Neuroscience, 2005, 18, 287-295.	0.6	82
70	Synchronization in Hybrid Neuronal Networks of the Hippocampal Formation. Journal of Neurophysiology, 2005, 93, 1197-1208.	0.9	188
71	Channel Noise is Essential for Perithreshold Oscillations in Entorhinal Stellate Neurons. Journal of Neuroscience, 2005, 25, 10025-10028.	1.7	121
72	Effects of Inhibitory Feedback in a Network Model of Avian Brain Stem. Journal of Neurophysiology, 2005. 94. 400-414.	0.9	40

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73	Increasing Ca2+ transients by broadening postsynaptic action potentials enhances timing-dependent synaptic depression. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 19121-19125.	3.3	55
74	Epilepsy in Small-World Networks. Journal of Neuroscience, 2004, 24, 8075-8083.	1.7	285
75	Synchronization of strongly coupled excitatory neurons: relating network behavior to biophysics. Journal of Computational Neuroscience, 2003, 15, 71-90.	0.6	152
76	Cultivation in Rotating Bioreactors Promotes Maintenance of Cardiac Myocyte Electrophysiology and Molecular Properties. Tissue Engineering, 2003, 9, 1243-1253.	4.9	96
77	Comparison of Algorithms for the Simulation of Action Potentials with Stochastic Sodium Channels. Annals of Biomedical Engineering, 2002, 30, 578-587.	1.3	110
78	Frequency Selectivity of Layer II Stellate Cells in the Medial Entorhinal Cortex. Journal of Neurophysiology, 2002, 88, 2422-2429.	0.9	120
79	Real-Time Linux Dynamic Clamp: A Fast and Flexible Way to Construct Virtual Ion Channels in Living Cells. Annals of Biomedical Engineering, 2001, 29, 897-907.	1.3	144
80	Channel noise in neurons. Trends in Neurosciences, 2000, 23, 131-137.	4.2	565
81	Interactions between Distinct GABAA Circuits in Hippocampus. Neuron, 2000, 25, 449-457.	3.8	117
82	Fractal ion-channel behavior generates fractal firing patterns in neuronal models. Physical Review E, 1999, 59, 5970-5980.	0.8	96
83	Analysis of dendritic arbors of native and regenerated ganglion cells in the goldfish retina. Visual Neuroscience, 1999, 16, 253-261.	0.5	18
84	Synchronization and oscillatory dynamics in heterogeneous, mutually inhibited neurons. Journal of Computational Neuroscience, 1998, 5, 5-16.	0.6	369
85	Frequency control in synchronized networks of inhibitory neurons. Journal of Computational Neuroscience, 1998, 5, 407-420.	0.6	118
86	The voltage-dependent conductances of rat neocortical layer I neurons. European Journal of Neuroscience, 1998, 10, 2309-2321.	1.2	12
87	Noise From Voltage-Gated Ion Channels May Influence Neuronal Dynamics in the Entorhinal Cortex. Journal of Neurophysiology, 1998, 80, 262-269.	0.9	200
88	A heart-like Na+ current in the medial entorhinal cortex. Neuron, 1993, 11, 1037-1047.	3.8	73
89	The parameter identification problem for the somatic shunt model. Biological Cybernetics, 1992, 66, 307-318.	0.6	23