

W Rowland Taylor

List of Publications by Year in descending order

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69
papers

3,936
citations

109264

35
h-index

123376

61
g-index

70
all docs

70
docs citations

70
times ranked

2150
citing authors

#	ARTICLE	IF	CITATIONS
1	Direction selectivity in the retina: symmetry and asymmetry in structure and function. <i>Nature Reviews Neuroscience</i> , 2012, 13, 194-208.	4.9	272
2	Diverse Synaptic Mechanisms Generate Direction Selectivity in the Rabbit Retina. <i>Journal of Neuroscience</i> , 2002, 22, 7712-7720.	1.7	181
3	High-affinity glutamate transporters in the rat retina: a major role of the glial glutamate transporter GLAST-1 in transmitter clearance. <i>Cell and Tissue Research</i> , 1997, 291, 19-31.	1.5	174
4	Receptive field properties of ON- and OFF-ganglion cells in the mouse retina. <i>Visual Neuroscience</i> , 2009, 26, 297-308.	0.5	173
5	Direction-Selective Dendritic Action Potentials in Rabbit Retina. <i>Neuron</i> , 2005, 47, 739-750.	3.8	158
6	Dendritic Computation of Direction Selectivity by Retinal Ganglion Cells. <i>Science</i> , 2000, 289, 2347-2350.	6.0	151
7	Concomitant activation of two types of glutamate receptor mediates excitation of salamander retinal ganglion cells.. <i>Journal of Physiology</i> , 1990, 428, 175-197.	1.3	134
8	Calcium Extrusion from Mammalian Photoreceptor Terminals. <i>Journal of Neuroscience</i> , 1998, 18, 2467-2474.	1.7	126
9	Photoreceptor calcium channels: Insight from night blindness. <i>Visual Neuroscience</i> , 2005, 22, 561-568.	0.5	115
10	Response characteristics and receptive field widths of onâ€bipolar cells in the mouse retina. <i>Journal of Physiology</i> , 2000, 524, 879-889.	1.3	112
11	Localization and properties of voltage-gated calcium channels in cone photoreceptors of <i>Tupaia belangeri</i> . <i>Visual Neuroscience</i> , 1998, 15, 541-52.	0.5	103
12	New directions in retinal research. <i>Trends in Neurosciences</i> , 2003, 26, 379-385.	4.2	97
13	Local Edge Detectors: A Substrate for Fine Spatial Vision at Low Temporal Frequencies in Rabbit Retina. <i>Journal of Neuroscience</i> , 2006, 26, 13250-13263.	1.7	97
14	The role of starburst amacrine cells in visual signal processing. <i>Visual Neuroscience</i> , 2012, 29, 73-81.	0.5	88
15	TTX attenuates surround inhibition in rabbit retinal ganglion cells. <i>Visual Neuroscience</i> , 1999, 16, 285-290.	0.5	83
16	Differential loss and preservation of glutamate receptor function in bipolar cells in the <i>rd10</i> mouse model of retinitis pigmentosa. <i>European Journal of Neuroscience</i> , 2009, 29, 1533-1542.	1.2	81
17	Direction selectivity in a model of the starburst amacrine cell. <i>Visual Neuroscience</i> , 2004, 21, 611-625.	0.5	78
18	Receptive Field Properties of Starburst Cholinergic Amacrine Cells in the Rabbit Retina. <i>European Journal of Neuroscience</i> , 1995, 7, 2308-2321.	1.2	77

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19	Localization of the calcium-binding protein secretagogin in cone bipolar cells of the mammalian retina. <i>Journal of Comparative Neurology</i> , 2010, 518, 513-525.	0.9	77
20	Dendritic Spikes Amplify the Synaptic Signal to Enhance Detection of Motion in a Simulation of the Direction-Selective Ganglion Cell. <i>PLoS Computational Biology</i> , 2010, 6, e1000899.	1.5	77
21	Na ^V 1.1 Channels in Axon Initial Segments of Bipolar Cells Augment Input to Magnocellular Visual Pathways in the Primate Retina. <i>Journal of Neuroscience</i> , 2013, 33, 16045-16059.	1.7	77
22	Transmission of single photon signals through a binary synapse in the mammalian retina. <i>Visual Neuroscience</i> , 2004, 21, 693-702.	0.5	73
23	Molecular identity, synaptic localization, and physiology of calcium channels in retinal bipolar cells. <i>Journal of Neuroscience Research</i> , 2003, 71, 146-151.	1.3	72
24	Direction selectivity in the retina. <i>Current Opinion in Neurobiology</i> , 2002, 12, 405-410.	2.0	67
25	Characterization of spontaneous excitatory synaptic currents in salamander retinal ganglion cells.. <i>Journal of Physiology</i> , 1995, 486, 207-221.	1.3	66
26	Orientation Selectivity in Rabbit Retinal Ganglion Cells Is Mediated by Presynaptic Inhibition. <i>Journal of Neuroscience</i> , 2010, 30, 15664-15676.	1.7	64
27	Effects of γ -aminobutyric acid and (α)-baclofen on calcium and potassium currents in cat dorsal root ganglion neurones <i>in vitro</i> . <i>British Journal of Pharmacology</i> , 1986, 89, 661-672.	2.7	60
28	Kainate Receptors Mediate Synaptic Input to Transient and Sustained OFF Visual Pathways in Primate Retina. <i>Journal of Neuroscience</i> , 2014, 34, 7611-7621.	1.7	60
29	Tetrodotoxin-Resistant Sodium Channels Contribute to Directional Responses in Starburst Amacrine Cells. <i>PLoS ONE</i> , 2010, 5, e12447.	1.1	56
30	Rapid charge movements and photosensitivity of visual pigments in salamander rods and cones.. <i>Journal of Physiology</i> , 1991, 442, 761-780.	1.3	52
31	Conductance and kinetics of single cGMP-activated channels in salamander rod outer segments.. <i>Journal of Physiology</i> , 1995, 483, 567-582.	1.3	49
32	Molecular Fingerprinting of On ⁺ Off Direction-Selective Retinal Ganglion Cells Across Species and Relevance to Primate Visual Circuits. <i>Journal of Neuroscience</i> , 2019, 39, 78-95.	1.7	44
33	Response properties of long-range axon-bearing amacrine cells in the dark-adapted rabbit retina. <i>Visual Neuroscience</i> , 1996, 13, 599-604.	0.5	41
34	Synaptic inputs and timing underlying the velocity tuning of direction-selective ganglion cells in rabbit retina. <i>Journal of Physiology</i> , 2010, 588, 3243-3253.	1.3	41
35	Uniformity detector retinal ganglion cells fire complex spikes and receive only light-evoked inhibition. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 5628-5633.	3.3	38
36	Synaptic pathways that shape the excitatory drive in an OFF retinal ganglion cell. <i>Journal of Neurophysiology</i> , 2012, 107, 1795-1807.	0.9	36

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37	Inhibitory mechanisms that generate centre and surround properties in ON and OFF briskly sustained ganglion cells in the rabbit retina. <i>Journal of Physiology</i> , 2013, 591, 303-325.	1.3	35
38	Time course of EPSCs in ON-type starburst amacrine cells is independent of dendritic location. <i>Journal of Physiology</i> , 2016, 594, 5685-5694.	1.3	35
39	Transmission of scotopic signals from the rod to rod-bipolar cell in the mammalian retina. <i>Vision Research</i> , 2004, 44, 3269-3276.	0.7	34
40	Immunohistochemical identification and synaptic inputs to the diffuse bipolar cell type DB1 in macaque retina. <i>Journal of Comparative Neurology</i> , 2011, 519, 3640-3656.	0.9	34
41	Postsynaptic calcium feedback between rods and rod bipolar cells in the mouse retina. <i>Visual Neuroscience</i> , 2004, 21, 913-924.	0.5	33
42	Functional Changes in Inner Retinal Neurons in Animal Models of Photoreceptor Degeneration. <i>Advances in Experimental Medicine and Biology</i> , 2010, 664, 525-532.	0.8	33
43	Synaptic Vesicle Exocytosis at the Dendritic Lobules of an Inhibitory Interneuron in the Mammalian Retina. <i>Neuron</i> , 2015, 87, 563-575.	3.8	31
44	Permeation of barium and cadmium through slowly inactivating calcium channels in cat sensory neurones. <i>Journal of Physiology</i> , 1988, 407, 433-452.	1.3	28
45	Two-suction-electrode voltage-clamp analysis of the sustained calcium current in cat sensory neurones. <i>Journal of Physiology</i> , 1988, 407, 405-432.	1.3	26
46	Inhibitory input to the direction-selective ganglion cell is saturated at low contrast. <i>Journal of Neurophysiology</i> , 2015, 114, 927-941.	0.9	25
47	Direction-Selective Ganglion Cells in the Retina. , 2001, , 14-57.		23
48	Passive electrical cable properties and synaptic excitation of tiger salamander retinal ganglion cells. <i>Visual Neuroscience</i> , 1996, 13, 979-990.	0.5	21
49	Color opponent retinal ganglion cells in the tammar wallaby retina. <i>Journal of Vision</i> , 2002, 2, 3.	0.1	21
50	A novel type of complex ganglion cell in rabbit retina. <i>Journal of Comparative Neurology</i> , 2011, 519, 3128-3138.	0.9	21
51	The Synaptic and Morphological Basis of Orientation Selectivity in a Polyaxonal Amacrine Cell of the Rabbit Retina. <i>Journal of Neuroscience</i> , 2015, 35, 13336-13350.	1.7	21
52	Synaptic Mechanisms Generating Orientation Selectivity in the ON Pathway of the Rabbit Retina. <i>Journal of Neuroscience</i> , 2016, 36, 3336-3349.	1.7	21
53	Distinct Roles for Inhibition in Spatial and Temporal Tuning of Local Edge Detectors in the Rabbit Retina. <i>PLoS ONE</i> , 2014, 9, e88560.	1.1	20
54	The unitary event amplitude of mouse retinal on-cone bipolar cells. <i>Visual Neuroscience</i> , 2003, 20, 621-626.	0.5	19

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55	Simulated Saccadic Stimuli Suppress ON-Type Direction-Selective Retinal Ganglion Cells via Glycinergic Inhibition. <i>Journal of Neuroscience</i> , 2019, 39, 4312-4322.	1.7	19
56	Directional excitatory input to direction-selective ganglion cells in the rabbit retina. <i>Journal of Comparative Neurology</i> , 2019, 527, 270-281.	0.9	18
57	Trigger features and excitation in the retina. <i>Current Opinion in Neurobiology</i> , 2011, 21, 672-678.	2.0	16
58	Gbx2 Identifies Two Amacrine Cell Subtypes with Distinct Molecular, Morphological, and Physiological Properties. <i>Cell Reports</i> , 2020, 33, 108382.	2.9	13
59	Selective activation of mGluR8 receptors modulates retinal ganglion cell light responses. <i>Neuroscience</i> , 2010, 166, 935-941.	1.1	9
60	Carbonic anhydrase-related protein VIII is expressed in rod bipolar cells and alters signaling at the rod bipolar to All-amacrine cell synapse in the mammalian retina. <i>European Journal of Neuroscience</i> , 2011, 34, 1419-1431.	1.2	8
61	Maximizing contrast resolution in the outer retina of mammals. <i>Biological Cybernetics</i> , 2010, 103, 57-77.	0.6	7
62	Bistratified starburst amacrine cells in <i>Sox2</i> conditional knockout mouse retina display ON and OFF responses. <i>Journal of Neurophysiology</i> , 2018, 120, 2121-2129.	0.9	7
63	Differential effects of chloroquine on cardiolipin biosynthesis in hepatocytes and H9c2 cardiac cells. <i>Molecular and Cellular Biochemistry</i> , 2000, 207, 115-122.	1.4	5
64	Diverse inhibitory and excitatory mechanisms shape temporal tuning in transient OFF \pm ganglion cells in the rabbit retina. <i>Journal of Physiology</i> , 2018, 596, 477-495.	1.3	3
65	A novel type of complex ganglion cell in rabbit retina. <i>Journal of Comparative Neurology</i> , 2011, 519, Spc1-Spc1.	0.9	0
66	Immunohistochemical identification and synaptic inputs to the diffuse bipolar cell type DB1 in macaque retina. <i>Journal of Comparative Neurology</i> , 2011, 519, Spc1.	0.9	0
67	Dendritic Computation of Direction in Retinal Neurons. <i>Springer Series in Computational Neuroscience</i> , 2014, , 205-222.	0.3	0
68	Regulation of Cardiolipin Remodeling in Human Lymphoblasts. <i>FASEB Journal</i> , 2013, 27, 672.1.	0.2	0
69	Two-Suction Electrode Voltage-Clamp Recording. <i>Methods in Neurosciences</i> , 1991, , 61-77.	0.5	0