

David M Berson

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

10,754
citations

126907

33
h-index

155660

55
g-index

71
all docs

71
docs citations

71
times ranked

5623
citing authors

#	ARTICLE	IF	CITATIONS
1	Gain control by sparse, ultra-slow glycinergic synapses. <i>Cell Reports</i> , 2022, 38, 110410.	6.4	10
2	Organization and emergence of a mixed GABA-glycine retinal circuit that provides inhibition to mouse ON-sustained alpha retinal ganglion cells. <i>Cell Reports</i> , 2021, 34, 108858.	6.4	9
3	Rapid multi-directed cholinergic transmission in the central nervous system. <i>Nature Communications</i> , 2021, 12, 1374.	12.8	23
4	Keep both eyes on the prize: Hunting mice use binocular vision and specialized retinal neurons to capture prey. <i>Neuron</i> , 2021, 109, 1418-1420.	8.1	6
5	A High-Density Narrow-Field Inhibitory Retinal Interneuron with Direct Coupling to Müller Glia. <i>Journal of Neuroscience</i> , 2021, 41, 6018-6037.	3.6	11
6	Spatially displaced excitation contributes to the encoding of interrupted motion by a retinal direction-selective circuit. <i>ELife</i> , 2021, 10, .	6.0	3
7	Genetic access to neurons in the accessory optic system reveals a role for <i>Sema6A</i> in midbrain circuitry mediating motion perception. <i>Journal of Comparative Neurology</i> , 2019, 527, 282-296.	1.6	25
8	Luminance signals in the human brain. <i>IBRO Reports</i> , 2019, 6, S412.	0.3	0
9	μ -Opioid Receptor Activation Directly Modulates Intrinsically Photosensitive Retinal Ganglion Cells. <i>Neuroscience</i> , 2019, 408, 400-417.	2.3	13
10	Introduction to retinal special issue I. <i>Journal of Comparative Neurology</i> , 2019, 527, 7-8.	1.6	0
11	The M6 cell: A small-field bistratified photosensitive retinal ganglion cell. <i>Journal of Comparative Neurology</i> , 2019, 527, 297-311.	1.6	104
12	Transcriptomic Signatures of Postnatal and Adult Intrinsically Photosensitive Ganglion Cells. <i>ENeuro</i> , 2019, 6, ENEURO.0022-19.2019.	1.9	29
13	Local axonal morphology guides the topography of interneuron myelination in mouse and human neocortex. <i>ELife</i> , 2019, 8, .	6.0	51
14	The M5 Cell: A Color-Opponent Intrinsically Photosensitive Retinal Ganglion Cell. <i>Neuron</i> , 2018, 97, 150-163.e4.	8.1	74
15	GABA release selectively regulates synapse development at distinct inputs on direction-selective retinal ganglion cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E12083-E12090.	7.1	19
16	Light Affects Mood and Learning through Distinct Retina-Brain Pathways. <i>Cell</i> , 2018, 175, 71-84.e18.	28.9	316
17	A retinal code for motion along the gravitational and body axes. <i>Nature</i> , 2017, 546, 492-497.	27.8	122
18	A Cre Mouse Line for Probing Irradiance- and Direction-Encoding Retinal Networks. <i>ENeuro</i> , 2017, 4, ENEURO.0065-17.2017.	1.9	27

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19	A subset of ipRGCs regulates both maturation of the circadian clock and segregation of retinogeniculate projections in mice. <i>ELife</i> , 2017, 6, .	6.0	64
20	Melanopsin ganglion cells extend dendrites into the outer retina during early postnatal development. <i>Developmental Neurobiology</i> , 2015, 75, 935-946.	3.0	18
21	RdgB2 is required for dim-light input into intrinsically photosensitive retinal ganglion cells. <i>Molecular Biology of the Cell</i> , 2015, 26, 3671-3678.	2.1	7
22	Measuring and using light in the melanopsin age. <i>Trends in Neurosciences</i> , 2014, 37, 1-9.	8.6	879
23	Genetic Dissection of Retinal Inputs to Brainstem Nuclei Controlling Image Stabilization. <i>Journal of Neuroscience</i> , 2013, 33, 17797-17813.	3.6	150
24	Mouse Ganglion-Cell Photoreceptors Are Driven by the Most Sensitive Rod Pathway and by Both Types of Cones. <i>PLoS ONE</i> , 2013, 8, e66480.	2.5	74
25	Form and Function of the M4 Cell, an Intrinsically Photosensitive Retinal Ganglion Cell Type Contributing to Geniculocortical Vision. <i>Journal of Neuroscience</i> , 2012, 32, 13608-13620.	3.6	208
26	Dopaminergic modulation of ganglion cell photoreceptors in rat. <i>European Journal of Neuroscience</i> , 2012, 35, 507-518.	2.6	84
27	Cadherin-6 Mediates Axon-Target Matching in a Non-Image-Forming Visual Circuit. <i>Neuron</i> , 2011, 71, 632-639.	8.1	137
28	Light acts through melanopsin to alter retinal waves and segregation of retinogeniculate afferents. <i>Nature Neuroscience</i> , 2011, 14, 827-829.	14.8	72
29	Ganglion-Cell Photoreceptors and Non-Image-Forming Vision. , 2011, , 526-544.		2
30	Morphology and mosaics of melanopsin-expressing retinal ganglion cell types in mice. <i>Journal of Comparative Neurology</i> , 2010, 518, 2405-2422.	1.6	169
31	Morphology and mosaics of melanopsin-expressing retinal ganglion cell types in mice. <i>Journal of Comparative Neurology</i> , 2010, 518, spc1.	1.6	137
32	Melanopsin-Expressing Retinal Ganglion-Cell Photoreceptors: Cellular Diversity and Role in Pattern Vision. <i>Neuron</i> , 2010, 67, 49-60.	8.1	544
33	Hyperpolarization-Activated Current (I _h) in Ganglion-Cell Photoreceptors. <i>PLoS ONE</i> , 2010, 5, e15344.	2.5	31
34	Circadian Modulation of Melanopsin-Driven Light Response in Rat Ganglion-Cell Photoreceptors. <i>Journal of Biological Rhythms</i> , 2009, 24, 391-402.	2.6	48
35	Morphology of retinal ganglion cells in the ferret (<i>Mustela putorius furo</i>). <i>Journal of Comparative Neurology</i> , 2009, 517, 459-480.	1.6	8
36	Ectopic retinal ON bipolar cell synapses in the OFF inner plexiform layer: Contacts with dopaminergic amacrine cells and melanopsin ganglion cells. <i>Journal of Comparative Neurology</i> , 2009, 517, 226-244.	1.6	149

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37	Melanopsin cells are the principal conduits for rod-cone input to non-image-forming vision. <i>Nature</i> , 2008, 453, 102-105.	27.8	734
38	Intraretinal signaling by ganglion cell photoreceptors to dopaminergic amacrine neurons. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 14181-14186.	7.1	243
39	Melanopsin Ganglion Cells Use a Membrane-Associated Rhabdomeric Phototransduction Cascade. <i>Journal of Neurophysiology</i> , 2008, 99, 2522-2532.	1.8	170
40	The Retina-Attached SCN Slice Preparation: An In Vitro Mammalian Circadian Visual System. <i>Journal of Biological Rhythms</i> , 2007, 22, 400-410.	2.6	14
41	Synaptic influences on rat ganglion-cell photoreceptors. <i>Journal of Physiology</i> , 2007, 582, 279-296.	2.9	225
42	Phototransduction in ganglion-cell photoreceptors. <i>Pflugers Archiv European Journal of Physiology</i> , 2007, 454, 849-855.	2.8	136
43	Central projections of melanopsin-expressing retinal ganglion cells in the mouse. <i>Journal of Comparative Neurology</i> , 2006, 497, 326-349.	1.6	823
44	Induction of photosensitivity by heterologous expression of melanopsin. <i>Nature</i> , 2005, 433, 745-749.	27.8	388
45	Photoreceptor Adaptation in Intrinsically Photosensitive Retinal Ganglion Cells. <i>Neuron</i> , 2005, 48, 1001-1010.	8.1	180
46	Strange vision: ganglion cells as circadian photoreceptors. <i>Trends in Neurosciences</i> , 2003, 26, 314-320.	8.6	477
47	Inhibitory network properties shaping the light evoked responses of cat alpha retinal ganglion cells. <i>Visual Neuroscience</i> , 2003, 20, 351-361.	1.0	24
48	Melanopsin, Ganglion-Cell Photoreceptors, and Mammalian Photoentrainment. <i>Journal of Biological Rhythms</i> , 2003, 18, 227-234.	2.6	126
49	Phototransduction by Retinal Ganglion Cells That Set the Circadian Clock. <i>Science</i> , 2002, 295, 1070-1073.	12.6	2,877
50	Intrinsic physiological properties of cat retinal ganglion cells. <i>Journal of Physiology</i> , 2002, 538, 787-802.	2.9	177
51	Intrinsic physiological properties of cat retinal ganglion cells. , 2002, 538, 787.		2
52	Theta ganglion cell type of cat retina. , 2000, 417, 32-48.		58
53	The Eta ganglion cell type of cat retina. <i>Journal of Comparative Neurology</i> , 1999, 408, 204-19.	1.6	11
54	The zeta cell: A new ganglion cell type in cat retina. , 1998, 399, 269-288.		63

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55	High-Pressure Directed Water Jets as a Cause of Severe Bilateral Intraocular Injuries. American Journal of Ophthalmology, 1995, 120, 542-543.	3.3	7
56	A method for reliable and permanent intracellular staining of retinal ganglion cells. Journal of Neuroscience Methods, 1992, 41, 45-51.	2.5	39
57	Chapter 2: Retinal and cortical inputs to cat superior colliculus: composition, convergence and laminar specificity. Progress in Brain Research, 1988, 75, 17-26.	1.4	44
58	Subsystems Within the Visual Association Cortex as Delineated by their Thalamic and Transcortical Affiliations. Progress in Brain Research, 1983, 58, 229-238.	1.4	9
59	Autoradiographic evidence for a projection from the pretectal nucleus of the optic tract to the dorsal lateral geniculate complex in the cat. Brain Research, 1980, 195, 1-12.	2.2	58
60	Parallel thalamic zones in the LP-pulvinar complex of the cat identified by their afferent and efferent connections. Brain Research, 1978, 147, 139-148.	2.2	192