

David M Berson

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4228242/publications.pdf>

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	Phototransduction by Retinal Ganglion Cells That Set the Circadian Clock. <i>Science</i> , 2002, 295, 1070-1073.	12.6	2,877
2	Measuring and using light in the melanopsin age. <i>Trends in Neurosciences</i> , 2014, 37, 1-9.	8.6	879
3	Central projections of melanopsin-expressing retinal ganglion cells in the mouse. <i>Journal of Comparative Neurology</i> , 2006, 497, 326-349.	1.6	823
4	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
5	Melanopsin-Expressing Retinal Ganglion-Cell Photoreceptors: Cellular Diversity and Role in Pattern Vision. <i>Neuron</i> , 2010, 67, 49-60.	8.1	544
6	Strange vision: ganglion cells as circadian photoreceptors. <i>Trends in Neurosciences</i> , 2003, 26, 314-320.	8.6	477
7	Induction of photosensitivity by heterologous expression of melanopsin. <i>Nature</i> , 2005, 433, 745-749.	27.8	388
8	Light Affects Mood and Learning through Distinct Retina-Brain Pathways. <i>Cell</i> , 2018, 175, 71-84.e18.	28.9	316
9	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
10	Synaptic influences on rat ganglion-cell photoreceptors. <i>Journal of Physiology</i> , 2007, 582, 279-296.	2.9	225
11	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
12	Parallel thalamic zones in the LP-pulvinar complex of the cat identified by their afferent and efferent connections. <i>Brain Research</i> , 1978, 147, 139-148.	2.2	192
13	Photoreceptor Adaptation in Intrinsically Photosensitive Retinal Ganglion Cells. <i>Neuron</i> , 2005, 48, 1001-1010.	8.1	180
14	Intrinsic physiological properties of cat retinal ganglion cells. <i>Journal of Physiology</i> , 2002, 538, 787-802.	2.9	177
15	Melanopsin Ganglion Cells Use a Membrane-Associated Rhabdomic Phototransduction Cascade. <i>Journal of Neurophysiology</i> , 2008, 99, 2522-2532.	1.8	170
16	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
17	Genetic Dissection of Retinal Inputs to Brainstem Nuclei Controlling Image Stabilization. <i>Journal of Neuroscience</i> , 2013, 33, 17797-17813.	3.6	150
18	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

#	ARTICLE	IF	CITATIONS
19	Morphology and mosaics of melanopsin-expressing retinal ganglion cell types in mice. <i>Journal of Comparative Neurology</i> , 2010, 518, spc1.	1.6	137
20	Cadherin-6 Mediates Axon-Target Matching in a Non-Image-Forming Visual Circuit. <i>Neuron</i> , 2011, 71, 632-639.	8.1	137
21	Phototransduction in ganglion-cell photoreceptors. <i>Pflugers Archiv European Journal of Physiology</i> , 2007, 454, 849-855.	2.8	136
22	Melanopsin, Ganglion-Cell Photoreceptors, and Mammalian Photoentrainment. <i>Journal of Biological Rhythms</i> , 2003, 18, 227-234.	2.6	126
23	A retinal code for motion along the gravitational and body axes. <i>Nature</i> , 2017, 546, 492-497.	27.8	122
24	The M6 cell: A small-field bistratified photosensitive retinal ganglion cell. <i>Journal of Comparative Neurology</i> , 2019, 527, 297-311.	1.6	104
25	Dopaminergic modulation of ganglion-cell photoreceptors in rat. <i>European Journal of Neuroscience</i> , 2012, 35, 507-518.	2.6	84
26	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
27	The M5 Cell: A Color-Opponent Intrinsically Photosensitive Retinal Ganglion Cell. <i>Neuron</i> , 2018, 97, 150-163.e4.	8.1	74
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	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
30	The zeta cell: A new ganglion cell type in cat retina. , 1998, 399, 269-288.		63
31	Autoradiographic evidence for a projection from the pretectal nucleus of the optic tract to the dorsal lateral geniculate complex in the cat. <i>Brain Research</i> , 1980, 195, 1-12.	2.2	58
32	Theta ganglion cell type of cat retina. , 2000, 417, 32-48.		58
33	Local axonal morphology guides the topography of interneuron myelination in mouse and human neocortex. <i>ELife</i> , 2019, 8, .	6.0	51
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	Chapter 2: Retinal and cortical inputs to cat superior colliculus: composition, convergence and laminar specificity. <i>Progress in Brain Research</i> , 1988, 75, 17-26.	1.4	44
36	A method for reliable and permanent intracellular staining of retinal ganglion cells. <i>Journal of Neuroscience Methods</i> , 1992, 41, 45-51.	2.5	39

#	ARTICLE	IF	CITATIONS
37	Hyperpolarization-Activated Current (I _h) in Ganglion-Cell Photoreceptors. PLoS ONE, 2010, 5, e15344.	2.5	31
38	Transcriptomic Signatures of Postnatal and Adult Intrinsically Photosensitive Ganglion Cells. ENeuro, 2019, 6, ENEURO.0022-19.2019.	1.9	29
39	A Cre Mouse Line for Probing Irradiance- and Direction-Encoding Retinal Networks. ENeuro, 2017, 4, ENEURO.0065-17.2017.	1.9	27
40	Genetic access to neurons in the accessory optic system reveals a role for Sema6A in midbrain circuitry mediating motion perception. Journal of Comparative Neurology, 2019, 527, 282-296.	1.6	25
41	Inhibitory network properties shaping the light evoked responses of cat alpha retinal ganglion cells. Visual Neuroscience, 2003, 20, 351-361.	1.0	24
42	Rapid multi-directed cholinergic transmission in the central nervous system. Nature Communications, 2021, 12, 1374.	12.8	23
43	GABA release selectively regulates synapse development at distinct inputs on direction-selective retinal ganglion cells. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E12083-E12090.	7.1	19
44	Melanopsin ganglion cells extend dendrites into the outer retina during early postnatal development. Developmental Neurobiology, 2015, 75, 935-946.	3.0	18
45	The Retina-Attached SCN Slice Preparation: An In Vitro Mammalian Circadian Visual System. Journal of Biological Rhythms, 2007, 22, 400-410.	2.6	14
46	Î¼-Opioid Receptor Activation Directly Modulates Intrinsically Photosensitive Retinal Ganglion Cells. Neuroscience, 2019, 408, 400-417.	2.3	13
47	A High-Density Narrow-Field Inhibitory Retinal Interneuron with Direct Coupling to Müller Glia. Journal of Neuroscience, 2021, 41, 6018-6037.	3.6	11
48	The Eta ganglion cell type of cat retina. Journal of Comparative Neurology, 1999, 408, 204-19.	1.6	11
49	Gain control by sparse, ultra-slow glycinergic synapses. Cell Reports, 2022, 38, 110410.	6.4	10
50	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
51	Organization and emergence of a mixed GABA-glycine retinal circuit that provides inhibition to mouse ON-sustained alpha retinal ganglion cells. Cell Reports, 2021, 34, 108858.	6.4	9
52	Morphology of retinal ganglion cells in the ferret (<i>Mustela putorius furo</i>). Journal of Comparative Neurology, 2009, 517, 459-480.	1.6	8
53	High-Pressure Directed Water Jets as a Cause of Severe Bilateral Intraocular Injuries. American Journal of Ophthalmology, 1995, 120, 542-543.	3.3	7
54	RdgB2 is required for dim-light input into intrinsically photosensitive retinal ganglion cells. Molecular Biology of the Cell, 2015, 26, 3671-3678.	2.1	7

#	ARTICLE	IF	CITATIONS
55	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
56	Spatially displaced excitation contributes to the encoding of interrupted motion by a retinal direction-selective circuit. <i>ELife</i> , 2021, 10, .	6.0	3
57	Intrinsic physiological properties of cat retinal ganglion cells. , 2002, 538, 787.		2
58	Ganglion-Cell Photoreceptors and Non-Image-Forming Vision. , 2011, , 526-544.		2
59	Luminance signals in the human brain. <i>IBRO Reports</i> , 2019, 6, S412.	0.3	0
60	Introduction to retinal special issue I. <i>Journal of Comparative Neurology</i> , 2019, 527, 7-8.	1.6	0