

Jonathan B Demb

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

6,193
citations

109321

35
h-index

138484

58
g-index

63
all docs

63
docs citations

63
times ranked

5365
citing authors

#	ARTICLE	IF	CITATIONS
1	An optimized fluorescent probe for visualizing glutamate neurotransmission. <i>Nature Methods</i> , 2013, 10, 162-170.	19.0	827
2	Do We Know What the Early Visual System Does?. <i>Journal of Neuroscience</i> , 2005, 25, 10577-10597.	3.6	563
3	Neuronal basis of contrast discrimination. <i>Vision Research</i> , 1999, 39, 257-269.	1.4	355
4	Motion Opponency in Visual Cortex. <i>Journal of Neuroscience</i> , 1999, 19, 7162-7174.	3.6	284
5	Functional Magnetic Resonance Imaging of Early Visual Pathways in Dyslexia. <i>Journal of Neuroscience</i> , 1998, 18, 6939-6951.	3.6	248
6	Restoration of vision after de novo genesis of rod photoreceptors in mammalian retinas. <i>Nature</i> , 2018, 560, 484-488.	27.8	234
7	Disinhibition Combines with Excitation to Extend the Operating Range of the OFF Visual Pathway in Daylight. <i>Journal of Neuroscience</i> , 2008, 28, 4136-4150.	3.6	217
8	Different Circuits for ON and OFF Retinal Ganglion Cells Cause Different Contrast Sensitivities. <i>Journal of Neuroscience</i> , 2003, 23, 2645-2654.	3.6	210
9	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
10	Psychophysical evidence for a magnocellular pathway deficit in dyslexia. <i>Vision Research</i> , 1998, 38, 1555-1559.	1.4	181
11	Two-Photon Imaging of Nonlinear Glutamate Release Dynamics at Bipolar Cell Synapses in the Mouse Retina. <i>Journal of Neuroscience</i> , 2013, 33, 10972-10985.	3.6	181
12	Bipolar Cells Contribute to Nonlinear Spatial Summation in the Brisk-Transient (Y) Ganglion Cell in Mammalian Retina. <i>Journal of Neuroscience</i> , 2001, 21, 7447-7454.	3.6	176
13	Spectral and Temporal Sensitivity of Cone-Mediated Responses in Mouse Retinal Ganglion Cells. <i>Journal of Neuroscience</i> , 2011, 31, 7670-7681.	3.6	170
14	Functional Circuitry of the Retinal Ganglion Cell's Nonlinear Receptive Field. <i>Journal of Neuroscience</i> , 1999, 19, 9756-9767.	3.6	165
15	Intrinsic properties and functional circuitry of the All amacrine cell. <i>Visual Neuroscience</i> , 2012, 29, 51-60.	1.0	153
16	Functional Circuitry of the Retina. <i>Annual Review of Vision Science</i> , 2015, 1, 263-289.	4.4	142
17	Cellular Mechanisms for Direction Selectivity in the Retina. <i>Neuron</i> , 2007, 55, 179-186.	8.1	133
18	Functional circuitry of visual adaptation in the retina. <i>Journal of Physiology</i> , 2008, 586, 4377-4384.	2.9	126

#	ARTICLE	IF	CITATIONS
19	A Synaptic Mechanism for Retinal Adaptation to Luminance and Contrast. <i>Journal of Neuroscience</i> , 2011, 31, 11003-11015.	3.6	109
20	Presynaptic Mechanism for Slow Contrast Adaptation in Mammalian Retinal Ganglion Cells. <i>Neuron</i> , 2006, 50, 453-464.	8.1	101
21	Role of attention in face encoding. <i>Journal of Experimental Psychology: Learning Memory and Cognition</i> , 1994, 20, 161-168.	0.9	91
22	Contrast Adaptation in Subthreshold and Spiking Responses of Mammalian Y-Type Retinal Ganglion Cells. <i>Journal of Neuroscience</i> , 2005, 25, 860-868.	3.6	78
23	Cellular Basis for Contrast Gain Control over the Receptive Field Center of Mammalian Retinal Ganglion Cells. <i>Journal of Neuroscience</i> , 2007, 27, 2636-2645.	3.6	75
24	Excitatory Synaptic Inputs to Mouse On-Off Direction-Selective Retinal Ganglion Cells Lack Direction Tuning. <i>Journal of Neuroscience</i> , 2014, 34, 3976-3981.	3.6	75
25	Preservation of vision after CaMKII-mediated protection of retinal ganglion cells. <i>Cell</i> , 2021, 184, 4299-4314.e12.	28.9	75
26	Kainate Receptors Mediate Signaling in Both Transient and Sustained OFF Bipolar Cell Pathways in Mouse Retina. <i>Journal of Neuroscience</i> , 2014, 34, 6128-6139.	3.6	74
27	Cellular Basis for the Response to Second-Order Motion Cues in Y Retinal Ganglion Cells. <i>Neuron</i> , 2001, 32, 711-721.	8.1	69
28	Adaptation to Background Light Enables Contrast Coding at Rod Bipolar Cell Synapses. <i>Neuron</i> , 2014, 81, 388-401.	8.1	69
29	Parallel Computations in Insect and Mammalian Visual Motion Processing. <i>Current Biology</i> , 2016, 26, R1062-R1072.	3.9	64
30	Function and Circuitry of VIP+ Interneurons in the Mouse Retina. <i>Journal of Neuroscience</i> , 2015, 35, 10685-10700.	3.6	60
31	Normal planum temporale asymmetry in dyslexics with a magnocellular pathway deficit. <i>NeuroReport</i> , 1999, 10, 607-612.	1.2	58
32	Transsynaptic Tracing with Vesicular Stomatitis Virus Reveals Novel Retinal Circuitry. <i>Journal of Neuroscience</i> , 2013, 33, 35-51.	3.6	54
33	NMDA Receptor Contributions to Visual Contrast Coding. <i>Neuron</i> , 2010, 67, 280-293.	8.1	49
34	Functional Circuitry for Peripheral Suppression in Mammalian Y-Type Retinal Ganglion Cells. <i>Journal of Neurophysiology</i> , 2007, 97, 4327-4340.	1.8	48
35	Distinct expressions of contrast gain control in parallel synaptic pathways converging on a retinal ganglion cell. <i>Journal of Physiology</i> , 2008, 586, 5487-5502.	2.9	44
36	Convergence and Divergence of CRH Amacrine Cells in Mouse Retinal Circuitry. <i>Journal of Neuroscience</i> , 2018, 38, 3753-3766.	3.6	39

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37	Complexin 3 Increases the Fidelity of Signaling in a Retinal Circuit by Regulating Exocytosis at Ribbon Synapses. <i>Cell Reports</i> , 2016, 15, 2239-2250.	6.4	36
38	Multiple Mechanisms for Contrast Adaptation in the Retina. <i>Neuron</i> , 2002, 36, 781-783.	8.1	32
39	Implicit and explicit memory for compound words. <i>Memory and Cognition</i> , 1994, 22, 687-694.	1.6	30
40	Connexin36 Forms Synapses Essential for Night Vision. <i>Neuron</i> , 2002, 36, 551-553.	8.1	30
41	Delayed-Rectifier K Channels Contribute to Contrast Adaptation in Mammalian Retinal Ganglion Cells. <i>Neuron</i> , 2011, 71, 166-179.	8.1	30
42	Divisive suppression explains high-precision firing and contrast adaptation in retinal ganglion cells. <i>ELife</i> , 2016, 5, .	6.0	27
43	Molecular features distinguish ten neuronal types in the mouse superficial superior colliculus. <i>Journal of Comparative Neurology</i> , 2016, 524, 2300-2321.	1.6	25
44	How Retinal Ganglion Cells Prevent Synaptic Noise From Reaching the Spike Output. <i>Journal of Neurophysiology</i> , 2004, 92, 2510-2519.	1.8	23
45	Developmental Changes in NMDA Receptor Subunit Composition at ON and OFF Bipolar Cell Synapses onto Direction-Selective Retinal Ganglion Cells. <i>Journal of Neuroscience</i> , 2014, 34, 1942-1948.	3.6	23
46	<i>Retina.</i> , 2004, , 217-270.		21
47	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
48	Connectomic analysis reveals an interneuron with an integral role in the retinal circuit for night vision. <i>ELife</i> , 2020, 9, .	6.0	18
49	Selective synaptic connections in the retinal pathway for night vision. <i>Journal of Comparative Neurology</i> , 2019, 527, 117-132.	1.6	16
50	NMDA and AMPA receptors contribute similarly to temporal processing in mammalian retinal ganglion cells. <i>Journal of Physiology</i> , 2014, 592, 4877-4889.	2.9	14
51	Photoreceptive Ganglion Cells Drive Circuits for Local Inhibition in the Mouse Retina. <i>Journal of Neuroscience</i> , 2021, 41, 1489-1504.	3.6	10
52	Computational and Molecular Properties of Starburst Amacrine Cell Synapses Differ With Postsynaptic Cell Type. <i>Frontiers in Cellular Neuroscience</i> , 2021, 15, 660773.	3.7	9
53	Receptor Mechanisms for Fast Cholinergic Transmission in Direction-Selective Retinal Circuitry. <i>Frontiers in Cellular Neuroscience</i> , 2020, 14, 604163.	3.7	8
54	Mind the Gap Junctions: The Importance of Electrical Synapses to Visual Processing. <i>Neuron</i> , 2016, 90, 207-209.	8.1	4

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55	Ultraweak Signals Can Cause Synaptic Depression and Adaptation. <i>Neuron</i> , 2008, 57, 802-804.	8.1	3
56	Neurons show their true colours. <i>Nature</i> , 2010, 467, 670-671.	27.8	3
57	These retinas are made for walkin'. <i>Nature</i> , 2017, 546, 476-477.	27.8	2
58	Activity acts locally. <i>Nature</i> , 2009, 460, 961-963.	27.8	1
59	Melanopsin Shows Its (Contrast-)Sensitive Side. <i>Neuron</i> , 2018, 99, 630-632.	8.1	1
60	Making selective 'cone-ectons'. <i>Nature Neuroscience</i> , 2006, 9, 595-596.	14.8	0