

Jeffrey S Diamond

List of Publications by Year in descending order

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61
papers

5,719
citations

94433

37
h-index

133252

59
g-index

87
all docs

87
docs citations

87
times ranked

4863
citing authors

#	ARTICLE	IF	CITATIONS
1	Transporters Buffer Synaptically Released Glutamate on a Submillisecond Time Scale. <i>Journal of Neuroscience</i> , 1997, 17, 4672-4687.	3.6	438
2	Clearance of glutamate inside the synapse and beyond. <i>Current Opinion in Neurobiology</i> , 1999, 9, 293-298.	4.2	317
3	Asynchronous release of synaptic vesicles determines the time course of the AMPA receptor-mediated EPSC. <i>Neuron</i> , 1995, 15, 1097-1107.	8.1	284
4	Structure, Function, and Pharmacology of Glutamate Receptor Ion Channels. <i>Pharmacological Reviews</i> , 2021, 73, 1469-1658.	16.0	237
5	Neuronal Glutamate Transporters Limit Activation of NMDA Receptors by Neurotransmitter Spillover on CA1 Pyramidal Cells. <i>Journal of Neuroscience</i> , 2001, 21, 8328-8338.	3.6	231
6	Coordinated multivesicular release at a mammalian ribbon synapse. <i>Nature Neuroscience</i> , 2004, 7, 826-833.	14.8	199
7	Sustained Ca ²⁺ Entry Elicits Transient Postsynaptic Currents at a Retinal Ribbon Synapse. <i>Journal of Neuroscience</i> , 2003, 23, 10923-10933.	3.6	194
8	Species-specific wiring for direction selectivity in the mammalian retina. <i>Nature</i> , 2016, 535, 105-110.	27.8	185
9	Neuronal Glutamate Uptake Contributes to GABA Synthesis and Inhibitory Synaptic Strength. <i>Journal of Neuroscience</i> , 2003, 23, 2040-2048.	3.6	184
10	Requirement for Microglia for the Maintenance of Synaptic Function and Integrity in the Mature Retina. <i>Journal of Neuroscience</i> , 2016, 36, 2827-2842.	3.6	179
11	Synaptically Released Glutamate Activates Extrasynaptic NMDA Receptors on Cells in the Ganglion Cell Layer of Rat Retina. <i>Journal of Neuroscience</i> , 2002, 22, 2165-2173.	3.6	163
12	Neuronal Transporters Regulate Glutamate Clearance, NMDA Receptor Activation, and Synaptic Plasticity in the Hippocampus. <i>Journal of Neuroscience</i> , 2009, 29, 14581-14595.	3.6	154
13	Fast neurotransmitter release triggered by Ca influx through AMPA-type glutamate receptors. <i>Nature</i> , 2006, 443, 705-708.	27.8	153
14	Deriving the Glutamate Clearance Time Course from Transporter Currents in CA1 Hippocampal Astrocytes: Transmitter Uptake Gets Faster during Development. <i>Journal of Neuroscience</i> , 2005, 25, 2906-2916.	3.6	149
15	Retinal Parallel Processors: More than 100 Independent Microcircuits Operate within a Single Interneuron. <i>Neuron</i> , 2010, 65, 873-885.	8.1	148
16	Inhibitory Interneurons in the Retina: Types, Circuitry, and Function. <i>Annual Review of Vision Science</i> , 2017, 3, 1-24.	4.4	144
17	Amyloid- β Slows Clearance of Synaptically Released Glutamate by Mislocalizing Astrocytic GLT-1. <i>Journal of Neuroscience</i> , 2013, 33, 5312-5318.	3.6	143
18	Differentiation of human ESCs to retinal ganglion cells using a CRISPR engineered reporter cell line. <i>Scientific Reports</i> , 2015, 5, 16595.	3.3	142

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19	Glutamate Release Monitored with Astrocyte Transporter Currents during LTP. <i>Neuron</i> , 1998, 21, 425-433.	8.1	141
20	Synaptically Released Glutamate Does Not Overwhelm Transporters on Hippocampal Astrocytes During High-Frequency Stimulation. <i>Journal of Neurophysiology</i> , 2000, 83, 2835-2843.	1.8	141
21	Vesicle Depletion and Synaptic Depression at a Mammalian Ribbon Synapse. <i>Journal of Neurophysiology</i> , 2006, 95, 3191-3198.	1.8	141
22	Involvement of retinal ganglion cells to NMDA excitotoxicity. <i>Molecular and Cellular Neurosciences</i> , 2004, 26, 544-557.	2.2	129
23	The contribution of NMDA and Non-NMDA receptors to the light-evoked input-output characteristics of retinal ganglion cells. <i>Neuron</i> , 1993, 11, 725-738.	8.1	102
24	Ribbon synapses compute temporal contrast and encode luminance in retinal rod bipolar cells. <i>Nature Neuroscience</i> , 2011, 14, 1555-1561.	14.8	97
25	Genetic targeting and physiological features of VGLUT3+ amacrine cells. <i>Visual Neuroscience</i> , 2011, 28, 381-392.	1.0	89
26	Subunit- and Pathway-Specific Localization of NMDA Receptors and Scaffolding Proteins at Ganglion Cell Synapses in Rat Retina. <i>Journal of Neuroscience</i> , 2009, 29, 4274-4286.	3.6	86
27	CaMKII phosphorylation of neuroligin-1 regulates excitatory synapses. <i>Nature Neuroscience</i> , 2014, 17, 56-64.	14.8	83
28	Mechanisms Underlying Lateral GABAergic Feedback onto Rod Bipolar Cells in Rat Retina. <i>Journal of Neuroscience</i> , 2010, 30, 2330-2339.	3.6	82
29	BK channels modulate pre- and postsynaptic signaling at reciprocal synapses in retina. <i>Nature Neuroscience</i> , 2009, 12, 585-592.	14.8	79
30	Distinct perisynaptic and synaptic localization of NMDA and AMPA receptors on ganglion cells in rat retina. <i>Journal of Comparative Neurology</i> , 2006, 498, 810-820.	1.6	74
31	Imperfect Space Clamp Permits Electrotonic Interactions between Inhibitory and Excitatory Synaptic Conductances, Distorting Voltage Clamp Recordings. <i>PLoS ONE</i> , 2011, 6, e19463.	2.5	68
32	Coagonist Release Modulates NMDA Receptor Subtype Contributions at Synaptic Inputs to Retinal Ganglion Cells. <i>Journal of Neuroscience</i> , 2009, 29, 1469-1479.	3.6	67
33	The Number and Organization of Ca ²⁺ Channels in the Active Zone Shapes Neurotransmitter Release from Schaffer Collateral Synapses. <i>Journal of Neuroscience</i> , 2012, 32, 18157-18176.	3.6	67
34	A broad view of glutamate spillover. <i>Nature Neuroscience</i> , 2002, 5, 291-292.	14.8	63
35	The Relative Roles of Diffusion and Uptake in Clearing Synaptically Released Glutamate Change during Early Postnatal Development. <i>Journal of Neuroscience</i> , 2011, 31, 4743-4754.	3.6	63
36	Effects of fluorescent glutamate indicators on neurotransmitter diffusion and uptake. <i>ELife</i> , 2020, 9, .	6.0	59

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37	Functional Compartmentalization within Starburst Amacrine Cell Dendrites in the Retina. <i>Cell Reports</i> , 2018, 22, 2898-2908.	6.4	57
38	Retinal Circuitry Balances Contrast Tuning of Excitation and Inhibition to Enable Reliable Computation of Direction Selectivity. <i>Journal of Neuroscience</i> , 2016, 36, 5861-5876.	3.6	42
39	Synaptic Transfer between Rod and Cone Pathways Mediated by All Amacrine Cells in the Mouse Retina. <i>Current Biology</i> , 2018, 28, 2739-2751.e3.	3.9	41
40	NMDA Receptors Multiplicatively Scale Visual Signals and Enhance Directional Motion Discrimination in Retinal Ganglion Cells. <i>Neuron</i> , 2016, 89, 1277-1290.	8.1	36
41	Passive Diffusion as a Mechanism Underlying Ribbon Synapse Vesicle Release and Resupply. <i>Journal of Neuroscience</i> , 2014, 34, 8948-8962.	3.6	34
42	Complex inhibitory microcircuitry regulates retinal signaling near visual threshold. <i>Journal of Neurophysiology</i> , 2015, 114, 341-353.	1.8	34
43	Diverse Mechanisms Underlie Glycinergic Feedback Transmission onto Rod Bipolar Cells in Rat Retina. <i>Journal of Neuroscience</i> , 2008, 28, 7919-7928.	3.6	33
44	Probing potassium channel function in vivo by intracellular delivery of antibodies in a rat model of retinal neurodegeneration. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 12710-12715.	7.1	28
45	Specialized Postsynaptic Morphology Enhances Neurotransmitter Dilution and High-Frequency Signaling at an Auditory Synapse. <i>Journal of Neuroscience</i> , 2014, 34, 8358-8372.	3.6	25
46	Calcium-Permeable AMPA Receptors in the Retina. <i>Frontiers in Molecular Neuroscience</i> , 2011, 4, 27.	2.9	21
47	Illuminating synapses and circuitry in the retina. <i>Current Opinion in Neurobiology</i> , 2011, 21, 238-244.	4.2	16
48	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
49	Astrocytes Put down the Broom and Pick up the Baton. <i>Cell</i> , 2006, 125, 639-641.	28.9	9
50	Deriving the Time Course of Glutamate Clearance with a Deconvolution Analysis of Astrocytic Transporter Currents. <i>Journal of Visualized Experiments</i> , 2013, , .	0.3	9
51	Synaptic inhibition tunes contrast computation in the retina. <i>Visual Neuroscience</i> , 2019, 36, E006.	1.0	9
52	Dendro-somatic synaptic inputs to ganglion cells contradict receptive field and connectivity conventions in the mammalian retina. <i>Current Biology</i> , 2022, 32, 315-328.e4.	3.9	8
53	High-Resolution Quantitative Immunogold Analysis of Membrane Receptors at Retinal Ribbon Synapses. <i>Journal of Visualized Experiments</i> , 2016, , 53547.	0.3	7
54	Amacrine cells: Seeing the forest and the trees. <i>Visual Neuroscience</i> , 2012, 29, 1-2.	1.0	6

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55	A light switch controlling Ca ²⁺ -permeable AMPA receptors in the retina. <i>Journal of Physiology</i> , 2007, 582, 3-3.	2.9	3
56	Distributed Parallel Processing in Retinal Amacrine Cells. <i>Springer Series in Computational Neuroscience</i> , 2014, , 191-204.	0.3	3
57	How we see the forest and the trees. <i>ELife</i> , 2018, 7, .	6.0	3
58	Ganglion Cells in Primate Retina Use Fuzzy Logic to Encode Complex Visual Receptive Fields. <i>Neuron</i> , 2019, 103, 549-551.	8.1	2
59	A17 Amacrine Cells and Olfactory Granule Cells: Parallel Processors of Early Sensory Information. <i>Frontiers in Cellular Neuroscience</i> , 2020, 14, 600537.	3.7	2
60	Grilled RIBEYE stakes a claim for synaptic ribbons. <i>Nature Neuroscience</i> , 2011, 14, 1097-1098.	14.8	0
61	The Gospel of John, <i><i>revised</i></i> - The Retina: An Approachable Part of the Brain, Revised Edition. By John E. Dowling. 2012. The Belknap Press of Harvard University Press, Cambridge, MA.. <i>Visual Neuroscience</i> , 2012, 29, 263-264.	1.0	0