

Botond Roska

List of Publications by Year in descending order

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Version: 2024-02-01

41
papers

5,707
citations

147801
31
h-index

276875
41
g-index

44
all docs

44
docs citations

44
times ranked

6177
citing authors

#	ARTICLE	IF	CITATIONS
1	General anesthesia globally synchronizes activity selectively in layer 5 cortical pyramidal neurons. <i>Neuron</i> , 2022, 110, 2024-2040.e10.	8.1	44
2	Partial recovery of visual function in a blind patient after optogenetic therapy. <i>Nature Medicine</i> , 2021, 27, 1223-1229.	30.7	335
3	Whole-brain functional ultrasound imaging in awake head-fixed mice. <i>Nature Protocols</i> , 2021, 16, 3547-3571.	12.0	52
4	New Technologies for Outcome Measures in Retinal Disease: Review from the European Vision Institute Special Interest Focus Group. <i>Ophthalmic Research</i> , 2020, 63, 77-87.	1.9	7
5	Cell Types of the Human Retina and Its Organoids at Single-Cell Resolution. <i>Cell</i> , 2020, 182, 1623-1640.e34.	28.9	359
6	Restoring light sensitivity using tunable near-infrared sensors. <i>Science</i> , 2020, 368, 1108-1113.	12.6	77
7	New Technologies for Outcome Measures in Glaucoma: Review by the European Vision Institute Special Interest Focus Group. <i>Ophthalmic Research</i> , 2020, 63, 88-96.	1.9	2
8	Targeting neuronal and glial cell types with synthetic promoter AAVs in mice, non-human primates and humans. <i>Nature Neuroscience</i> , 2019, 22, 1345-1356.	14.8	144
9	Magnetically guided virus stamping for the targeted infection of single cells or groups of cells. <i>Nature Protocols</i> , 2019, 14, 3205-3219.	12.0	7
10	The first steps in vision: cell types, circuits, and repair. <i>EMBO Molecular Medicine</i> , 2019, 11, .	6.9	5
11	Depicting brighter possibilities for treating blindness. <i>Science Translational Medicine</i> , 2019, 11, .	12.4	24
12	The mesoSPIM initiative: open-source light-sheet microscopes for imaging cleared tissue. <i>Nature Methods</i> , 2019, 16, 1105-1108.	19.0	174
13	The primate model for understanding and restoring vision. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 26280-26287.	7.1	73
14	Virus stamping for targeted single-cell infection in vitro and in vivo. <i>Nature Biotechnology</i> , 2018, 36, 81-88.	17.5	39
15	Whole-Brain Functional Ultrasound Imaging Reveals Brain Modules for Visuomotor Integration. <i>Neuron</i> , 2018, 100, 1241-1251.e7.	8.1	112
16	Restoring vision. <i>Nature</i> , 2018, 557, 359-367.	27.8	108
17	How Diverse Retinal Functions Arise from Feedback at the First Visual Synapse. <i>Neuron</i> , 2018, 99, 117-134.e11.	8.1	51
18	Different Modes of Visual Integration in the Lateral Geniculate Nucleus Revealed by Single-Cell-Initiated Transsynaptic Tracing. <i>Neuron</i> , 2017, 93, 767-776.e6.	8.1	111

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19	Causal evidence for retina-dependent and -independent visual motion computations in mouse cortex. <i>Nature Neuroscience</i> , 2017, 20, 960-968.	14.8	101
20	Nanomechanical mapping of first binding steps of a virus to animal cells. <i>Nature Nanotechnology</i> , 2017, 12, 177-183.	31.5	170
21	Cis-regulatory landscapes of four cell types of the retina. <i>Nucleic Acids Research</i> , 2017, 45, 11607-11621.	14.5	39
22	The formation of the light-sensing compartment of cone photoreceptors coincides with a transcriptional switch. <i>ELife</i> , 2017, 6, .	6.0	28
23	Emerging therapies for inherited retinal degeneration. <i>Science Translational Medicine</i> , 2016, 8, 368rv6.	12.4	179
24	Retinal stimulation strategies to restore vision: Fundamentals and systems. <i>Progress in Retinal and Eye Research</i> , 2016, 53, 21-47.	15.5	207
25	Congenital Nystagmus Gene FRMD7 Is Necessary for Establishing a Neuronal Circuit Asymmetry for Direction Selectivity. <i>Neuron</i> , 2016, 89, 177-193.	8.1	117
26	A network comprising short and long noncoding RNAs and RNA helicase controls mouse retina architecture. <i>Nature Communications</i> , 2015, 6, 7305.	12.8	76
27	Single-cell-initiated monosynaptic tracing reveals layer-specific cortical network modules. <i>Science</i> , 2015, 349, 70-74.	12.6	212
28	Rods Feed Cones to Keep them Alive. <i>Cell</i> , 2015, 161, 706-708.	28.9	12
29	Optogenetics: 10 years after Chr2 in neurons—views from the community. <i>Nature Neuroscience</i> , 2015, 18, 1202-1212.	14.8	122
30	Efficient transduction and optogenetic stimulation of retinal bipolar cells by a synthetic adeno-associated virus capsid and promoter. <i>EMBO Molecular Medicine</i> , 2014, 6, 1175-1190.	6.9	149
31	Rods in daylight act as relay cells for cone-driven horizontal cell-mediated surround inhibition. <i>Nature Neuroscience</i> , 2014, 17, 1728-1735.	14.8	58
32	miRNAs 182 and 183 Are Necessary to Maintain Adult Cone Photoreceptor Outer Segments and Visual Function. <i>Neuron</i> , 2014, 83, 586-600.	8.1	125
33	The First Stage of Cardinal Direction Selectivity Is Localized to the Dendrites of Retinal Ganglion Cells. <i>Neuron</i> , 2013, 79, 1078-1085.	8.1	139
34	Ambient Illumination Toggles a Neuronal Circuit Switch in the Retina and Visual Perception at Cone Threshold. <i>Neuron</i> , 2013, 78, 325-338.	8.1	143
35	Gene Therapy for Blindness. <i>Annual Review of Neuroscience</i> , 2013, 36, 467-488.	10.7	124
36	Transcriptional code and disease map for adult retinal cell types. <i>Nature Neuroscience</i> , 2012, 15, 487-495.	14.8	235

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37	Spatially asymmetric reorganization of inhibition establishes a motion-sensitive circuit. Nature, 2011, 469, 407-410.	27.8	165
38	Genetic Reactivation of Cone Photoreceptors Restores Visual Responses in Retinitis Pigmentosa. Science, 2010, 329, 413-417.	12.6	578
39	Genetic address book for retinal cell types. Nature Neuroscience, 2009, 12, 1197-1204.	14.8	172
40	Approach sensitivity in the retina processed by a multifunctional neural circuit. Nature Neuroscience, 2009, 12, 1308-1316.	14.8	290
41	Light-activated channels targeted to ON bipolar cells restore visual function in retinal degeneration. Nature Neuroscience, 2008, 11, 667-675.	14.8	522