

Richard Born

List of Publications by Year in descending order

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Version: 2024-02-01

48
papers

5,721
citations

185998

28
h-index

223531

46
g-index

49
all docs

49
docs citations

49
times ranked

4536
citing authors

#	ARTICLE	IF	CITATIONS
1	Functional analysis of human MT and related visual cortical areas using magnetic resonance imaging. <i>Journal of Neuroscience</i> , 1995, 15, 3215-3230.	1.7	1,310
2	STRUCTURE AND FUNCTION OF VISUAL AREA MT. <i>Annual Review of Neuroscience</i> , 2005, 28, 157-189.	5.0	866
3	Temporal dynamics of a neural solution to the aperture problem in visual area MT of macaque brain. <i>Nature</i> , 2001, 409, 1040-1042.	13.7	347
4	Segregation of global and local motion processing in primate middle temporal visual area. <i>Nature</i> , 1992, 357, 497-499.	13.7	328
5	How Is a Sensory Map Read Out? Effects of Microstimulation in Visual Area MT on Saccades and Smooth Pursuit Eye Movements. <i>Journal of Neuroscience</i> , 1997, 17, 4312-4330.	1.7	247
6	Comparison of fiber tracts derived from in-vivo DTI tractography with 3D histological neural tract tracer reconstruction on a macaque brain. <i>NeuroImage</i> , 2007, 37, 530-538.	2.1	216
7	Contrast Dependence of Suppressive Influences in Cortical Area MT of Alert Macaque. <i>Journal of Neurophysiology</i> , 2005, 93, 1809-1815.	0.9	179
8	Center-Surround Interactions in the Middle Temporal Visual Area of the Owl Monkey. <i>Journal of Neurophysiology</i> , 2000, 84, 2658-2669.	0.9	168
9	Corticocortical Feedback Contributes to Surround Suppression in V1 of the Alert Primate. <i>Journal of Neuroscience</i> , 2013, 33, 8504-8517.	1.7	161
10	End-Stopping and the Aperture Problem. <i>Neuron</i> , 2003, 39, 671-680.	3.8	158
11	Segregation of Object and Background Motion in Visual Area MT. <i>Neuron</i> , 2000, 26, 725-734.	3.8	157
12	Dynamic properties of neurons in cortical area MT in alert and anaesthetized macaque monkeys. <i>Nature</i> , 2001, 414, 905-908.	13.7	156
13	Neuroanatomy goes viral!. <i>Frontiers in Neuroanatomy</i> , 2015, 9, 80.	0.9	135
14	Integrating motion and depth via parallel pathways. <i>Nature Neuroscience</i> , 2008, 11, 216-223.	7.1	99
15	Integration of Contour and Terminator Signals in Visual Area MT of Alert Macaque. <i>Journal of Neuroscience</i> , 2004, 24, 3268-3280.	1.7	94
16	Two-Dimensional Substructure of MT Receptive Fields. <i>Neuron</i> , 2001, 30, 781-793.	3.8	92
17	Spatiotemporal Structure of Nonlinear Subunits in Macaque Visual Cortex. <i>Journal of Neuroscience</i> , 2006, 26, 893-907.	1.7	78
18	Disparity Channels in Early Vision. <i>Journal of Neuroscience</i> , 2007, 27, 11820-11831.	1.7	76

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19	Segregation of feedforward and feedback projections in mouse visual cortex. <i>Journal of Comparative Neurology</i> , 2011, 519, 3672-3683.	0.9	68
20	Single-unit and 2-deoxyglucose studies of side inhibition in macaque striate cortex.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1991, 88, 7071-7075.	3.3	66
21	Two-Dimensional Substructure of Stereo and Motion Interactions in Macaque Visual Cortex. <i>Neuron</i> , 2003, 37, 525-535.	3.8	63
22	The Role of V1 Surround Suppression in MT Motion Integration. <i>Journal of Neurophysiology</i> , 2010, 103, 3123-3138.	0.9	63
23	Vesicular stomatitis virus enables gene transfer and transsynaptic tracing in a wide range of organisms. <i>Journal of Comparative Neurology</i> , 2015, 523, 1639-1663.	0.9	59
24	Timescales of Sensory- and Decision-Related Activity in the Middle Temporal and Medial Superior Temporal Areas. <i>Journal of Neuroscience</i> , 2010, 30, 14036-14045.	1.7	54
25	Specificity of Projections from Wide-Field and Local Motion-Processing Regions within the Middle Temporal Visual Area of the Owl Monkey. <i>Journal of Neuroscience</i> , 2000, 20, 1157-1169.	1.7	50
26	Corticocortical feedback increases the spatial extent of normalization. <i>Frontiers in Systems Neuroscience</i> , 2014, 8, 105.	1.2	42
27	In vivo microelectrode track reconstruction using magnetic resonance imaging. <i>Journal of Neuroscience Methods</i> , 1998, 80, 215-224.	1.3	39
28	Stereopsis. <i>Current Biology</i> , 2008, 18, R845-R850.	1.8	36
29	A Modality-Specific Feedforward Component of Choice-Related Activity in MT. <i>Neuron</i> , 2015, 87, 208-219.	3.8	36
30	Stimulus-Dependent Modulation of Suppressive Influences in MT. <i>Journal of Neuroscience</i> , 2011, 31, 678-686.	1.7	32
31	Joint tuning for direction of motion and binocular disparity in macaque MT is largely separable. <i>Journal of Neurophysiology</i> , 2013, 110, 2806-2816.	0.9	31
32	Input-Gain Control Produces Feature-Specific Surround Suppression. <i>Journal of Neuroscience</i> , 2015, 35, 4973-4982.	1.7	31
33	Contributions of Indirect Pathways to Visual Response Properties in Macaque Middle Temporal Area MT. <i>Journal of Neuroscience</i> , 2011, 31, 3894-3903.	1.7	26
34	Bottom-Up and Top-Down Input Augment the Variability of Cortical Neurons. <i>Neuron</i> , 2016, 91, 540-547.	3.8	26
35	The Quantitative Methods Boot Camp: Teaching Quantitative Thinking and Computing Skills to Graduate Students in the Life Sciences. <i>PLoS Computational Biology</i> , 2015, 11, e1004208.	1.5	24
36	Cortical magnification plus cortical plasticity equals vision?. <i>Vision Research</i> , 2015, 111, 161-169.	0.7	19

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37	Integration of motion cues for the initiation of smooth pursuit eye movements. Progress in Brain Research, 2002, 140, 225-237.	0.9	15
38	Adaptation to Speed in Macaque Middle Temporal and Medial Superior Temporal Areas. Journal of Neuroscience, 2013, 33, 4359-4368.	1.7	15
39	Temporal Evolution of 2-Dimensional Direction Signals Used to Guide Eye Movements. Journal of Neurophysiology, 2005, 95, 284-300.	0.9	14
40	Visual processing: Parallel-er and Parallel-er. Current Biology, 2001, 11, R566-R568.	1.8	12
41	Feature attention for binocular disparity in primate area MT depends on tuning strength. Journal of Neurophysiology, 2015, 113, 1545-1555.	0.9	12
42	Illusions, Delusions, and Your Backwards Bayesian Brain: A Biased Visual Perspective. Brain, Behavior and Evolution, 2020, 95, 272-285.	0.9	6
43	Attention is more than meets the eye. Nature, 2012, 489, 371-372.	13.7	3
44	Banishing "Black/White Thinking" A Trio of Teaching Tricks. ENeuro, 2019, 6, ENEURO.0456-19.2019.	0.9	3
45	Taking Strategies to Task. Neuron, 2004, 42, 185-187.	3.8	2
46	Integration of motion signals over regions of uniform luminance by MT neurons in the alert macaque. Journal of Vision, 2010, 2, 412-412.	0.1	1
47	Special Issue of the Journal of Chemical Neuroanatomy "New methods for studying brain connectivity using viral tracing" Journal of Chemical Neuroanatomy, 2019, 102, 101685.	1.0	0
48	Two-dimensional motion signals in primary visual cortex of alert macaques. Journal of Vision, 2010, 3, 407-407.	0.1	0