

Jonathan C Horton

List of Publications by Year in descending order

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92
papers

5,449
citations

117625

34
h-index

85541

71
g-index

93
all docs

93
docs citations

93
times ranked

3666
citing authors

#	ARTICLE	IF	CITATIONS
1	The Representation of the Visual Field in Human Striate Cortex. JAMA Ophthalmology, 1991, 109, 816.	2.4	661
2	Regular patchy distribution of cytochrome oxidase staining in primary visual cortex of macaque monkey. Nature, 1981, 292, 762-764.	27.8	493
3	The cortical column: a structure without a function. Philosophical Transactions of the Royal Society B: Biological Sciences, 2005, 360, 837-862.	4.0	465
4	Bypassing V1: a direct geniculate input to area MT. Nature Neuroscience, 2004, 7, 1123-1128.	14.8	444
5	THE CIRCUITRY OF V1 AND V2: Integration of Color, Form, and Motion. Annual Review of Neuroscience, 2005, 28, 303-326.	10.7	393
6	Complete Pattern of Ocular Dominance Columns in Human Primary Visual Cortex. Journal of Neuroscience, 2007, 27, 10391-10403.	3.6	184
7	Divided by Cytochrome Oxidase: A Map of the Projections from V1 to V2 in Macaques. Science, 2002, 295, 1734-1737.	12.6	150
8	Intrinsic Variability of Ocular Dominance Column Periodicity in Normal Macaque Monkeys. Journal of Neuroscience, 1996, 16, 7228-7339.	3.6	138
9	Non-retinotopic arrangement of fibres in cat optic nerve. Nature, 1979, 282, 720-722.	27.8	135
10	Timing of the Critical Period for Plasticity of Ocular Dominance Columns in Macaque Striate Cortex. Journal of Neuroscience, 1997, 17, 3684-3709.	3.6	132
11	Arrangement of Ocular Dominance Columns in Human Visual Cortex. JAMA Ophthalmology, 1990, 108, 1025.	2.4	120
12	Capricious expression of cortical columns in the primate brain. Nature Neuroscience, 2003, 6, 113-114.	14.8	115
13	Emergence of ocular dominance columns in cat visual cortex by 2 weeks of age. Journal of Comparative Neurology, 2001, 430, 235-249.	1.6	113
14	A Precise Retinotopic Map of Primate Striate Cortex Generated from the Representation of Angioscotomas. Journal of Neuroscience, 2003, 23, 3771-3789.	3.6	110
15	Monocular Core Zones and Binocular Border Strips in Primate Striate Cortex Revealed by the Contrasting Effects of Enucleation, Eyelid Suture, and Retinal Laser Lesions on Cytochrome Oxidase Activity. Journal of Neuroscience, 1998, 18, 5433-5455.	3.6	107
16	Transmission of Spike Trains at the Retinogeniculate Synapse. Journal of Neuroscience, 2007, 27, 2683-2692.	3.6	99
17	Anatomical Demonstration of Ocular Dominance Columns in Striate Cortex of the Squirrel Monkey. Journal of Neuroscience, 1996, 16, 5510-5522.	3.6	85
18	A Biocompatible Titanium Headpost for Stabilizing Behaving Monkeys. Journal of Neurophysiology, 2007, 98, 993-1001.	1.8	77

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19	Thalamic filtering of retinal spike trains by postsynaptic summation. <i>Journal of Vision</i> , 2007, 7, 20.	0.3	72
20	Vascular Supply of the Cerebral Cortex is Specialized for Cell Layers but Not Columns. <i>Cerebral Cortex</i> , 2015, 25, 3673-3681.	2.9	64
21	Shadows Cast by Retinal Blood Vessels Mapped in Primary Visual Cortex. <i>Science</i> , 2002, 298, 572-576.	12.6	62
22	Complete flatmounting of the macaque cerebral cortex. <i>Visual Neuroscience</i> , 2003, 20, 663-686.	1.0	60
23	Perception via the Deviated Eye in Strabismus. <i>Journal of Neuroscience</i> , 2012, 32, 10286-10295.	3.6	56
24	Pattern of ocular dominance columns in human striate cortex in strabismic amblyopia. <i>Visual Neuroscience</i> , 1996, 13, 787-795.	1.0	55
25	Effect of early monocular enucleation upon ocular dominance columns and cytochrome oxidase activity in monkey and human visual cortex. <i>Visual Neuroscience</i> , 1998, 15, 289-303.	1.0	55
26	Preserving Information in Neural Transmission. <i>Journal of Neuroscience</i> , 2009, 29, 6207-6216.	3.6	54
27	Input to V2 Thin Stripes Arises from V1 Cytochrome Oxidase Patches. <i>Journal of Neuroscience</i> , 2005, 25, 10087-10093.	3.6	46
28	No correlation between intraocular pressure and intracranial pressure. <i>Annals of Neurology</i> , 2008, 64, 221-224.	5.3	44
29	Transneuronal retinal input to the primate Edinger-Westphal nucleus. , 1997, 381, 68-80.		43
30	Metabolic Mapping of Suppression Scotomas in Striate Cortex of Macaques with Experimental Strabismus. <i>Journal of Neuroscience</i> , 1999, 19, 7111-7129.	3.6	41
31	Ocular Motor Behavior in Macaques With Surgical Exotropia. <i>Journal of Neurophysiology</i> , 2007, 98, 3411-3422.	1.8	40
32	V1 Interpatch Projections to V2 Thick Stripes and Pale Stripes. <i>Journal of Neuroscience</i> , 2010, 30, 6963-6974.	3.6	40
33	Decompression of the Optic Nerve Sheath for Vision-Threatening Papilledema Caused by Dural Sinus Occlusion. <i>Neurosurgery</i> , 1992, 31, 203-212.	1.1	39
34	Ocular Dominance Columns: Enigmas and Challenges. <i>Neuroscientist</i> , 2009, 15, 62-77.	3.5	39
35	A watertight acrylic-free titanium recording chamber for electrophysiology in behaving monkeys. <i>Journal of Neurophysiology</i> , 2011, 106, 1581-1590.	1.8	39
36	Pattern of ocular dominance columns and cytochrome oxidase activity in a macaque monkey with naturally occurring anisometropic amblyopia. <i>Visual Neuroscience</i> , 1997, 14, 681-689.	1.0	38

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37	Variability of Ocular Deviation in Strabismus. <i>JAMA Ophthalmology</i> , 2016, 134, 63.	2.5	37
38	Pale cytochrome oxidase stripes in V2 receive the richest projection from macaque striate cortex. <i>Journal of Comparative Neurology</i> , 2002, 447, 18-33.	1.6	36
39	The Representation of Retinal Blood Vessels in Primate Striate Cortex. <i>Journal of Neuroscience</i> , 2003, 23, 5984-5997.	3.6	34
40	Ocular integration in the human visual cortex. <i>Canadian Journal of Ophthalmology</i> , 2006, 41, 584-593.	0.7	34
41	Orientation tuning of cytochrome oxidase patches in macaque primary visual cortex. <i>Nature Neuroscience</i> , 2011, 14, 1574-1580.	14.8	34
42	Neurons in V1 Patch Columns Project to V2 Thin Stripes. <i>Cerebral Cortex</i> , 2006, 17, 935-941.	2.9	30
43	Cortical Metabolic Activity Matches the Pattern of Visual Suppression in Strabismus. <i>Journal of Neuroscience</i> , 2013, 33, 3752-3759.	3.6	27
44	Adaptation, perceptual learning, and plasticity of brain functions. <i>Graefe's Archive for Clinical and Experimental Ophthalmology</i> , 2017, 255, 435-447.	1.9	26
45	Eye Choice for Acquisition of Targets in Alternating Strabismus. <i>Journal of Neuroscience</i> , 2014, 34, 14578-14588.	3.6	25
46	Monocular Cells Without Ocular Dominance Columns. <i>Journal of Neurophysiology</i> , 2006, 96, 2253-2264.	1.8	22
47	Capturing the Moment of Fusion Loss in Intermittent Exotropia. <i>Ophthalmology</i> , 2017, 124, 496-504.	5.2	20
48	Incomitance and Eye Dominance in Intermittent Exotropia. , 2017, 58, 4049.		17
49	Skull thickening, paranasal sinus expansion, and sella turcica shrinkage from chronic intracranial hypotension. <i>Journal of Neurosurgery: Pediatrics</i> , 2013, 11, 667-672.	1.3	15
50	Neurovisual Manifestations of Herpesviruses. <i>International Ophthalmology Clinics</i> , 2002, 42, 33-41.	0.7	12
51	Normal correspondence of tectal maps for saccadic eye movements in strabismus. <i>Journal of Neurophysiology</i> , 2016, 116, 2541-2549.	1.8	12
52	Invited Commentary: Ganglion Cell Complex Measurement in Compressive Optic Neuropathy. <i>Journal of Neuro-Ophthalmology</i> , 2017, 37, 13-15.	0.8	12
53	Rapid identification of ocular dominance columns in macaques using cytochrome oxidase, Zif268, and dark-field microscopy. <i>Visual Neuroscience</i> , 2000, 17, 495-508.	1.0	10
54	Ocular dominance columns in strabismus. <i>Visual Neuroscience</i> , 2006, 23, 795-805.	1.0	10

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55	Acetazolamide for Pseudotumor Cerebri. JAMA - Journal of the American Medical Association, 2014, 311, 1618.	7.4	10
56	Contrasting effects of strabismic amblyopia on metabolic activity in superficial and deep layers of striate cortex. Journal of Neurophysiology, 2015, 113, 3337-3344.	1.8	10
57	Normal Topography and Binocularity of the Superior Colliculus in Strabismus. Journal of Neuroscience, 2018, 38, 173-182.	3.6	10
58	Wilbrand's Knee: To Be or Not to Be a Knee?. Journal of Neuro-Ophthalmology, 2020, 40, S7-S14.	0.8	10
59	Papilledema From Craniosynostosis in Pycnodysostosis. Pediatric Neurology, 2015, 52, 128-129.	2.1	9
60	Interocular Suppression in Primary Visual Cortex in Strabismus. Journal of Neuroscience, 2021, 41, 5522-5533.	3.6	8
61	Vertical Diplopia and Ptosis from Removal of the Orbital Roof in Pterional Craniotomy. Ophthalmology, 2015, 122, 631-638.	5.2	6
62	An albino-like decussation error in the optic chiasm revealed by anomalous ocular dominance columns. Visual Neuroscience, 2002, 19, 541-545.	1.0	5
63	Reduced Apparent Diffusion Coefficient in Neuromyelitis Optica-associated Optic Neuropathy. Journal of Neuro-Ophthalmology, 2015, 35, 101-102.	0.8	5
64	Cortical Representation of a Myopic Peripapillary Crescent. Ophthalmology, 2016, 123, 1494-1499.	5.2	5
65	Air Bubbles Introduced From Peripheral Intravenous Lines Into the Cerebral Venous System. Journal of Neuro-Ophthalmology, 2019, 39, 437-437.	0.8	5
66	Co-localization of glutamic acid decarboxylase and vesicular GABA transporter in cytochrome oxidase patches of macaque striate cortex. Visual Neuroscience, 2015, 32, E026.	1.0	4
67	Bilateral Optic Disc Pits With Posterior Pituitary Ectopia. Journal of Neuro-Ophthalmology, 2017, 37, 401-402.	0.8	4
68	Patterns of Cortical Visual Field Defects From Embolic Stroke Explained by the Anastomatic Organization of Vascular Microlobules. Journal of Neuro-Ophthalmology, 2018, 38, 538-550.	0.8	4
69	Papilledema from gain-of-function mutations in the <i>STAT3</i> gene. Ophthalmic Genetics, 2019, 40, 165-169.	1.2	4
70	The Mechanism of Macular Sparing. Annual Review of Vision Science, 2021, 7, 155-179.	4.4	4
71	Polymerase chain reaction confirmed by immunohistochemistry: a two-pronged diagnostic approach in endophthalmitis. Acta Ophthalmologica, 2011, 89, 301-302.	1.1	3
72	Extraocular Muscle Dynamics in Diplopia from Enophthalmos. Strabismus, 2011, 19, 142-146.	0.7	2

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73	Recurrent Superior Oblique Myokymia Treated by Distal Tendon Extirpation. <i>Journal of Neuro-Ophthalmology</i> , 2019, 39, 345-347.	0.8	2
74	Damage to the Superior Retinae After 30 Gy Whole-Brain Radiation. <i>Advances in Radiation Oncology</i> , 2021, 6, 100706.	1.2	2
75	Spontaneous Reattachment of the Medial Rectus After Free Tenotomy. <i>Journal of Pediatric Ophthalmology and Strabismus</i> , 2018, 55, 335-338.	0.7	2
76	Columnar and Laminar Segregation of Retinal Input to the Primate Superior Colliculus Revealed by Anterograde Tracer Injection Into Each Eye. , 2022, 63, 9.		2
77	Abundance of Degrees of Freedom. , 2008, , 3-3.		1
78	Long-term labeling of microelectrode tracks with fluorescent latex microspheres. <i>Journal of Neuroscience Methods</i> , 2020, 343, 108839.	2.5	1
79	Vertical Optokinetic Stimulation Induces Diagonal Eye Movements in Patients with Idiopathic Infantile Nystagmus. , 2020, 61, 14.		1
80	Interocular suppression in primary visual cortex in strabismus: impact of staggering the presentation of stimuli to the eyes. <i>Journal of Neurophysiology</i> , 2021, 126, 1101-1111.	1.8	1
81	Fundus imaging of retinal ganglion cells transduced by retrograde transport of rAAV2-retro. <i>Experimental Eye Research</i> , 2022, 219, 109084.	2.6	1
82	Massive periorbital edema following hematopoietic stem cell transplantation. <i>American Journal of Ophthalmology Case Reports</i> , 2022, 26, 101559.	0.7	1
83	Labeling of cytochrome oxidase patches in intact flatmounts of striate cortex. <i>Journal of Neuroscience Methods</i> , 2005, 149, 1-6.	2.5	0
84	Advances in Understanding Mechanisms and Treatment of Infantile Forms of Nystagmus, edited by R.J. Leigh, and M.W. Devereaux. 2008. New York: Oxford University Press.. <i>Visual Neuroscience</i> , 2008, 25, 709-709.	1.0	0
85	Striate Cortex Functions. , 2009, , 3866-3873.		0
86	Confusion Between Bitemporal Hemianopia and Cecocentral Scotoma. <i>Journal of Neuro-Ophthalmology</i> , 2014, 34, 428.	0.8	0
87	Papilledema Associated with Puberty. <i>Clinical Pediatrics</i> , 2015, 54, 504-506.	0.8	0
88	Reply. <i>Ophthalmology</i> , 2018, 125, e13.	5.2	0
89	Congenital Visual Field Loss from a Schizencephalic Cleft Damaging Meyerâ€™s Loop. <i>Neuro-Ophthalmology</i> , 2021, 45, 277-280.	1.0	0
90	Bilateral Occlusion Reduces the Ocular Deviation in Intermittent Exotropia. , 2021, 62, 6.		0

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91	Dichoptic visual field mapping of suppression in exotropia with homonymous hemianopia. Journal of AAPOS, 2021, 25, 276.e1-276.e6.	0.3	0
92	Saccade Strategy in Alternating Exotropia. Shinkei Ganka, 2020, 37, 196-202.	0.0	0