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	Columnar and Laminar Segregation of Retinal Input to the Primate Superior Colliculus Revealed by Anterograde Tracer Injection Into Each Eye. , 2022, 63, 9.		2
2	Fundus imaging of retinal ganglion cells transduced by retrograde transport of rAAV2-retro. Experimental Eye Research, 2022, 219, 109084.	2.6	1
3	Massive periorbital edema following hematopoietic stem cell transplantation. American Journal of Ophthalmology Case Reports, 2022, 26, 101559.	0.7	1
4	Congenital Visual Field Loss from a Schizencephalic Cleft Damaging Meyerâ€™s Loop. Neuro-Ophthalmology, 2021, 45, 277-280.	1.0	0
5	Bilateral Occlusion Reduces the Ocular Deviation in Intermittent Exotropia. , 2021, 62, 6.		0
6	Interocular Suppression in Primary Visual Cortex in Strabismus. Journal of Neuroscience, 2021, 41, 5522-5533.	3.6	8
7	Damage to the Superior Retinae After 30 Gy Whole-Brain Radiation. Advances in Radiation Oncology, 2021, 6, 100706.	1.2	2
8	The Mechanism of Macular Sparing. Annual Review of Vision Science, 2021, 7, 155-179.	4.4	4
9	Dichoptic visual field mapping of suppression in exotropia with homonymous hemianopia. Journal of AAPOS, 2021, 25, 276.e1-276.e6.	0.3	0
10	Interocular suppression in primary visual cortex in strabismus: impact of staggering the presentation of stimuli to the eyes. Journal of Neurophysiology, 2021, 126, 1101-1111.	1.8	1
11	Wilbrand's Knee: To Be or Not to Be a Knee?. Journal of Neuro-Ophthalmology, 2020, 40, S7-S14.	0.8	10
12	Long-term labeling of microelectrode tracks with fluorescent latex microspheres. Journal of Neuroscience Methods, 2020, 343, 108839.	2.5	1
13	Vertical Optokinetic Stimulation Induces Diagonal Eye Movements in Patients with Idiopathic Infantile Nystagmus. , 2020, 61, 14.		1
14	Saccade Strategy in Alternating Exotropia. Shinkei Ganka, 2020, 37, 196-202.	0.0	0
15	Papilledema from gain-of-function mutations in the STAT3 gene. Ophthalmic Genetics, 2019, 40, 165-169.	1.2	4
16	Air Bubbles Introduced From Peripheral Intravenous Lines Into the Cerebral Venous System. Journal of Neuro-Ophthalmology, 2019, 39, 437-437.	0.8	5
17	Recurrent Superior Oblique Myokymia Treated by Distal Tendon Extirpation. Journal of Neuro-Ophthalmology, 2019, 39, 345-347.	0.8	2
18	Reply. Ophthalmology, 2018, 125, e13.	5.2	0

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19	Normal Topography and Binocularity of the Superior Colliculus in Strabismus. Journal of Neuroscience, 2018, 38, 173-182.	3.6	10
20	Patterns of Cortical Visual Field Defects From Embolic Stroke Explained by the Anastomotic Organization of Vascular Microlobules. Journal of Neuro-Ophthalmology, 2018, 38, 538-550.	0.8	4
21	Spontaneous Reattachment of the Medial Rectus After Free Tenotomy. Journal of Pediatric Ophthalmology and Strabismus, 2018, 55, 335-338.	0.7	2
22	Capturing the Moment of Fusion Loss in Intermittent Exotropia. Ophthalmology, 2017, 124, 496-504.	5.2	20
23	Adaptation, perceptual learning, and plasticity of brain functions. Graefe's Archive for Clinical and Experimental Ophthalmology, 2017, 255, 435-447.	1.9	26
24	Bilateral Optic Disc Pits With Posterior Pituitary Ectopia. Journal of Neuro-Ophthalmology, 2017, 37, 401-402.	0.8	4
25	Invited Commentary: Ganglion Cell Complex Measurement in Compressive Optic Neuropathy. Journal of Neuro-Ophthalmology, 2017, 37, 13-15.	0.8	12
26	Incomitance and Eye Dominance in Intermittent Exotropia. , 2017, 58, 4049.		17
27	Normal correspondence of tectal maps for saccadic eye movements in strabismus. Journal of Neurophysiology, 2016, 116, 2541-2549.	1.8	12
28	Cortical Representation of a Myopic Peripapillary Crescent. Ophthalmology, 2016, 123, 1494-1499.	5.2	5
29	Variability of Ocular Deviation in Strabismus. JAMA Ophthalmology, 2016, 134, 63.	2.5	37
30	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
31	Reduced Apparent Diffusion Coefficient in Neuromyelitis Opticaâ€“Associated Optic Neuropathy. Journal of Neuro-Ophthalmology, 2015, 35, 101-102.	0.8	5
32	Vertical Diplopia and Ptosis from Removal of the Orbital Roof in Pterional Craniotomy. Ophthalmology, 2015, 122, 631-638.	5.2	6
33	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
34	Papilledema Associated with Puberty. Clinical Pediatrics, 2015, 54, 504-506.	0.8	0
35	Vascular Supply of the Cerebral Cortex is Specialized for Cell Layers but Not Columns. Cerebral Cortex, 2015, 25, 3673-3681.	2.9	64
36	Papilledema From Craniosynostosis in Pycnodysostosis. Pediatric Neurology, 2015, 52, 128-129.	2.1	9

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37	Confusion Between Bitemporal Hemianopia and Cecocentral Scotoma. Journal of Neuro-Ophthalmology, 2014, 34, 428.	0.8	0
38	Acetazolamide for Pseudotumor Cerebri. JAMA - Journal of the American Medical Association, 2014, 311, 1618.	7.4	10
39	Eye Choice for Acquisition of Targets in Alternating Strabismus. Journal of Neuroscience, 2014, 34, 14578-14588.	3.6	25
40	Cortical Metabolic Activity Matches the Pattern of Visual Suppression in Strabismus. Journal of Neuroscience, 2013, 33, 3752-3759.	3.6	27
41	Skull thickening, paranasal sinus expansion, and sella turcica shrinkage from chronic intracranial hypotension. Journal of Neurosurgery: Pediatrics, 2013, 11, 667-672.	1.3	15
42	Perception via the Deviated Eye in Strabismus. Journal of Neuroscience, 2012, 32, 10286-10295.	3.6	56
43	Orientation tuning of cytochrome oxidase patches in macaque primary visual cortex. Nature Neuroscience, 2011, 14, 1574-1580.	14.8	34
44	Polymerase chain reaction confirmed by immunohistochemistry: a twoâ€pronged diagnostic approach in endophthalmitis. Acta Ophthalmologica, 2011, 89, 301-302.	1.1	3
45	A watertight acrylic-free titanium recording chamber for electrophysiology in behaving monkeys. Journal of Neurophysiology, 2011, 106, 1581-1590.	1.8	39
46	Extraocular Muscle Dynamics in Diplopia from Enophthalmos. Strabismus, 2011, 19, 142-146.	0.7	2
47	V1 Interpatch Projections to V2 Thick Stripes and Pale Stripes. Journal of Neuroscience, 2010, 30, 6963-6974.	3.6	40
48	Ocular Dominance Columns: Enigmas and Challenges. Neuroscientist, 2009, 15, 62-77.	3.5	39
49	Preserving Information in Neural Transmission. Journal of Neuroscience, 2009, 29, 6207-6216.	3.6	54
50	Striate Cortex Functions. , 2009, , 3866-3873.		0
51	No correlation between intraocular pressure and intracranial pressure. Annals of Neurology, 2008, 64, 221-224.	5.3	44
52	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.. Visual Neuroscience, 2008, 25, 709-709.	1.0	0
53	Abundance of Degrees of Freedom. , 2008, , 3-3.		1
54	Thalamic filtering of retinal spike trains by postsynaptic summation. Journal of Vision, 2007, 7, 20.	0.3	72

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55	Complete Pattern of Ocular Dominance Columns in Human Primary Visual Cortex. Journal of Neuroscience, 2007, 27, 10391-10403.	3.6	184
56	Transmission of Spike Trains at the Retinogeniculate Synapse. Journal of Neuroscience, 2007, 27, 2683-2692.	3.6	99
57	A Biocompatible Titanium Headpost for Stabilizing Behaving Monkeys. Journal of Neurophysiology, 2007, 98, 993-1001.	1.8	77
58	Ocular Motor Behavior in Macaques With Surgical Exotropia. Journal of Neurophysiology, 2007, 98, 3411-3422.	1.8	40
59	Ocular integration in the human visual cortex. Canadian Journal of Ophthalmology, 2006, 41, 584-593.	0.7	34
60	Monocular Cells Without Ocular Dominance Columns. Journal of Neurophysiology, 2006, 96, 2253-2264.	1.8	22
61	Neurons in V1 Patch Columns Project to V2 Thin Stripes. Cerebral Cortex, 2006, 17, 935-941.	2.9	30
62	Ocular dominance columns in strabismus. Visual Neuroscience, 2006, 23, 795-805.	1.0	10
63	Labeling of cytochrome oxidase patches in intact flatmounts of striate cortex. Journal of Neuroscience Methods, 2005, 149, 1-6.	2.5	0
64	Input to V2 Thin Stripes Arises from V1 Cytochrome Oxidase Patches. Journal of Neuroscience, 2005, 25, 10087-10093.	3.6	46
65	THE CIRCUITRY OF V1 AND V2: Integration of Color, Form, and Motion. Annual Review of Neuroscience, 2005, 28, 303-326.	10.7	393
66	The cortical column: a structure without a function. Philosophical Transactions of the Royal Society B: Biological Sciences, 2005, 360, 837-862.	4.0	465
67	Bypassing V1: a direct geniculate input to area MT. Nature Neuroscience, 2004, 7, 1123-1128.	14.8	444
68	Capricious expression of cortical columns in the primate brain. Nature Neuroscience, 2003, 6, 113-114.	14.8	115
69	Complete flatmounting of the macaque cerebral cortex. Visual Neuroscience, 2003, 20, 663-686.	1.0	60
70	A Precise Retinotopic Map of Primate Striate Cortex Generated from the Representation of Angioscotomas. Journal of Neuroscience, 2003, 23, 3771-3789.	3.6	110
71	The Representation of Retinal Blood Vessels in Primate Striate Cortex. Journal of Neuroscience, 2003, 23, 5984-5997.	3.6	34
72	An albino-like decussation error in the optic chiasm revealed by anomalous ocular dominance columns. Visual Neuroscience, 2002, 19, 541-545.	1.0	5

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73	Shadows Cast by Retinal Blood Vessels Mapped in Primary Visual Cortex. Science, 2002, 298, 572-576.	12.6	62
74	Divided by Cytochrome Oxidase: A Map of the Projections from V1 to V2 in Macaques. Science, 2002, 295, 1734-1737.	12.6	150
75	Neurovisual Manifestations of Herpesviruses. International Ophthalmology Clinics, 2002, 42, 33-41.	0.7	12
76	Pale cytochrome oxidase stripes in V2 receive the richest projection from macaque striate cortex. Journal of Comparative Neurology, 2002, 447, 18-33.	1.6	36
77	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
78	Rapid identification of ocular dominance columns in macaques using cytochrome oxidase, Zif268, and dark-field microscopy. Visual Neuroscience, 2000, 17, 495-508.	1.0	10
79	Metabolic Mapping of Suppression Scotomas in Striate Cortex of Macaques with Experimental Strabismus. Journal of Neuroscience, 1999, 19, 7111-7129.	3.6	41
80	Effect of early monocular enucleation upon ocular dominance columns and cytochrome oxidase activity in monkey and human visual cortex. Visual Neuroscience, 1998, 15, 289-303.	1.0	55
81	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
82	Pattern of ocular dominance columns and cytochrome oxidase activity in a macaque monkey with naturally occurring anisometropic amblyopia. Visual Neuroscience, 1997, 14, 681-689.	1.0	38
83	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
84	Transneuronal retinal input to the primate Edinger-Westphal nucleus. , 1997, 381, 68-80.		43
85	Intrinsic Variability of Ocular Dominance Column Periodicity in Normal Macaque Monkeys. Journal of Neuroscience, 1996, 16, 7228-7339.	3.6	138
86	Anatomical Demonstration of Ocular Dominance Columns in Striate Cortex of the Squirrel Monkey. Journal of Neuroscience, 1996, 16, 5510-5522.	3.6	85
87	Pattern of ocular dominance columns in human striate cortex in strabismic amblyopia. Visual Neuroscience, 1996, 13, 787-795.	1.0	55
88	Decompression of the Optic Nerve Sheath for Vision-Threatening Papilledema Caused by Dural Sinus Occlusion. Neurosurgery, 1992, 31, 203-212.	1.1	39
89	The Representation of the Visual Field in Human Striate Cortex. JAMA Ophthalmology, 1991, 109, 816.	2.4	661
90	Arrangement of Ocular Dominance Columns in Human Visual Cortex. JAMA Ophthalmology, 1990, 108, 1025.	2.4	120

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91	Regular patchy distribution of cytochrome oxidase staining in primary visual cortex of macaque monkey. Nature, 1981, 292, 762-764.	27.8	493
92	Non-retinotopic arrangement of fibres in cat optic nerve. Nature, 1979, 282, 720-722.	27.8	135