Jonathan A Winawer

List of Publications by Year
in descending order

88 papers	6,208 citations	117453 34 h-index	91712 69 g-index
124 all docs	124 docs citations	124 times ranked	4958 citing authors

#	Article	IF	Citations
1	Homeostasis of Eye Growth and the Question of Myopia. Neuron, 2004, 43, 447-468.	3.8	827
2	Russian blues reveal effects of language on color discrimination. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 7780-7785.	3.3	628
3	Imaging retinotopic maps in the human brain. Vision Research, 2011, 51, 718-737.	0.7	333
4	Compressive spatial summation in human visual cortex. Journal of Neurophysiology, 2013, 110, 481-494.	0.9	270
5	Structural integration in language and music: Evidence for a shared system. Memory and Cognition, 2009, 37, 1-9.	0.9	208
6	Computational neuroimaging and population receptive fields. Trends in Cognitive Sciences, 2015, 19, 349-357.	4.0	203
7	Mapping hV4 and ventral occipital cortex: The venous eclipse. Journal of Vision, 2010, 10, 1-1.	0.1	189
8	A Brain Area for Visual Numerals. Journal of Neuroscience, 2013, 33, 6709-6715.	1.7	185
9	GLMdenoise: a fast, automated technique for denoising task-based fMRI data. Frontiers in Neuroscience, 2013, 7, 247.	1.4	183
10	Image segmentation and lightness perception. Nature, 2005, 434, 79-83.	13.7	162
11	In a Matter of Minutes, the Eye Can Know Which Way to Grow. , 2005, 46, 2238.		144
12	Cortical Maps and White Matter Tracts following Long Period of Visual Deprivation and Retinal Image Restoration. Neuron, 2010, 65, 21-31.	3.8	140
13	Asynchronous Broadband Signals Are the Principal Source of the BOLD Response in Human Visual Cortex. Current Biology, 2013, 23, 1145-1153.	1.8	140
14	A Major Human White Matter Pathway Between Dorsal and Ventral Visual Cortex. Cerebral Cortex, 2016, 26, 2205-2214.	1.6	139
15	The Human Connectome Project 7 Tesla retinotopy dataset: Description and population receptive field analysis. Journal of Vision, 2018, 18, 23.	0.1	139
16	Synesthetic Colors Determined by Having Colored Refrigerator Magnets in Childhood. Cortex, 2006, 42, 175-183.	1.1	128
17	Temporal constraints on lens compensation in chicks. Vision Research, 2002, 42, 2651-2668.	0.7	111
18	Potency of Myopic Defocus in Spectacle Lens Compensation. , 2003, 44, 2818.		104

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19	A Motion Aftereffect From Still Photographs Depicting Motion. Psychological Science, 2008, 19, 276-283.	1.8	104
20	Bayesian analysis of retinotopic maps. ELife, 2018, 7, .	2.8	102
21	iEEG-BIDS, extending the Brain Imaging Data Structure specification to human intracranial electrophysiology. Scientific Data, 2019, 6, 102.	2.4	96
22	Visual field map clusters in human frontoparietal cortex. ELife, 2017, 6, .	2.8	92
23	A Two-Stage Cascade Model of BOLD Responses in Human Visual Cortex. PLoS Computational Biology, 2013, 9, e1003079.	1.5	89
24	Linking Electrical Stimulation of Human Primary Visual Cortex, Size of Affected Cortical Area, Neuronal Responses, and Subjective Experience. Neuron, 2016, 92, 1213-1219.	3.8	87
25	Learning, Memory, and Synesthesia. Psychological Science, 2013, 24, 258-265.	1.8	79
26	Neuronal synchrony and the relation between the blood-oxygen-level dependent response and the local field potential. PLoS Biology, 2017, 15, e2001461.	2.6	79
27	Connective field modeling. NeuroImage, 2013, 66, 376-384.	2.1	75
28	Compressive Temporal Summation in Human Visual Cortex. Journal of Neuroscience, 2018, 38, 691-709.	1.7	70
29	Human V4 and ventral occipital retinotopic maps. Visual Neuroscience, 2015, 32, E020.	0.5	64
30	A motion aftereffect from visual imagery of motion. Cognition, 2010, 114, 276-284.	1.1	59
31	Human trichromacy revisited. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E260-9.	3.3	59
32	Temporal Constraints on Experimental Emmetropization in Infant Monkeys. , 2007, 48, 957.		54
33	Cortical magnification in human visual cortex parallels task performance around the visual field. ELife, 2021, 10, .	2.8	52
34	Layered image representations and the computation of surface lightness. Journal of Vision, 2008, 8, 18.	0.1	51
35	Further evidence that chick eyes use the sign of blur in spectacle lens compensation. Vision Research, 2003, 43, 1519-1531.	0.7	49
36	Gamma oscillations in visual cortex: the stimulus matters. Trends in Cognitive Sciences, 2015, 19, 57-58.	4.0	46

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37	Ocular compensation for alternating myopic and hyperopic defocus. Vision Research, 2005, 45, 1667-1677.	0.7	45
38	Gamma oscillations and photosensitive epilepsy. Current Biology, 2017, 27, R336-R338.	1.8	45
39	Modeling visual performance differences â€˜aroundâ€™ the visual field: A computational observer approach. PLoS Computational Biology, 2019, 15, e1007063.	1.5	38
40	Prevalence of Learned Grapheme-Color Pairings in a Large Online Sample of Synesthetes. PLoS ONE, 2015, 10, e0118996.	1.1	37
41	An image-computable model for the stimulus selectivity of gamma oscillations. ELife, 2019, 8, .	2.8	37
42	Cross-dataset reproducibility of human retinotopic maps. NeuroImage, 2021, 244, 118609.	2.1	34
43	A validation framework for neuroimaging software: The case of populationÂreceptive fields. PLoS Computational Biology, 2020, 16, e1007924.	1.5	32
44	Linking individual differences in human primary visual cortex to contrast sensitivity around the visual field. Nature Communications, 2022, 13, .	5.8	32
45	Stimulus-dependent contrast sensitivity asymmetries around the visual field. Journal of Vision, 2020, 20, 18.	0.1	31
46	Asymmetries around the visual field: From retina to cortex to behavior. PLoS Computational Biology, 2022, 18, e1009771.	1.5	24
47	Predicting neuronal dynamics with a delayed gain control model. PLoS Computational Biology, 2019, 15, e1007484.	1.5	21
48	Human posterior parietal cortex responds to visual stimuli as early as peristriate occipital cortex. European Journal of Neuroscience, 2018, 48, 3567-3582.	1.2	19
49	27.2: <i>Distinguished Paper</i>: Modeling Visible Differences: The Computational Observer Model. Digest of Technical Papers SID International Symposium, 2014, 45, 352-356.	0.1	17
50	Population Receptive Field Shapes in Early Visual Cortex Are Nearly Circular. Journal of Neuroscience, 2021, 41, 2420-2427.	1.7	16
51	Identification of the ventral occipital visual field maps in the human brain. F1000Research, 2017, 6, 1526.	0.8	14
52	A non-invasive, quantitative study of broadband spectral responses in human visual cortex. PLoS ONE, 2018, 13, e0193107.	1.1	13
53	Sensory and decision-making processes underlying perceptual adaptation. Journal of Vision, 2018, 18, 10.	0.1	12
54	A Predominantly Visual Subdivision of The Right Temporo-Parietal Junction (vTPJ). Cerebral Cortex, 2016, 26, bhu226.	1.6	9

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55	Mapping spatial frequency preferences across human primary visual cortex. Journal of Vision, 2022, 22, 3.	0.1	8
56	Conservation across individuals of cortical crowding distance in human V4. Journal of Vision, 2021, 21, 2675.	0.1	7
57	Cultural Differences in Perceptual Reorganization in US and PirahÃ£ Adults. PLoS ONE, 2014, 9, e110225.	1.1	6
58	The HCP 7T Retinotopy Dataset: A new resource for investigating the organization of human visual cortex. Journal of Vision, 2018, 18, 215.	0.1	5
59	Effects of language on color discriminability. Journal of Vision, 2010, 3, 711-711.	0.1	4
60	Object Perception, Attention, and Memory 2007 Conference Report 15th Annual Meeting, Long Beach, California, USA. Visual Cognition, 2008, 16, 90-143.	0.9	3
61	Problem of signal contamination in interhemispheric dual-sided subdural electrodes. Epilepsia, 2011, 52, e176-e180.	2.6	3
62	Cerebellar Function: Multiple Topographic Maps of Visual Space. Current Biology, 2019, 29, R699-R702.	1.8	3
63	Conservation of crowding distance in human V4. Journal of Vision, 2018, 18, 856.	0.1	3
64	A visual encoding model links magnetoencephalography signals to neural synchrony in human cortex. NeuroImage, 2021, 245, 118655.	2.1	3
65	Heritability of V1/V2/V3 surface area in the HCP 7T Retinotopy Dataset. Journal of Vision, 2019, 19, 41b.	0.1	3
66	Using fMRI to link crowding to hV4. Journal of Vision, 2019, 19, 14a.	0.1	2
67	A tool for automatic identification of cerebral sinuses and corresponding artifacts in fMRI. Journal of Vision, 2017, 17, 295.	0.1	2
68	Conservation of crowding distance in human V4. Journal of Vision, 2017, 17, 19.	0.1	2
69	Homeostasis of Eye Growth and the Question of Myopia. Neuron, 2012, 74, 207.	3.8	1
70	A population receptive field model of the magnetoencephalography response. NeuroImage, 2021, 244, 118554.	2.1	1
71	Casting shadows on synesthesia. Journal of Vision, 2010, 3, 619-619.	0.1	1
72	Layered image representations and the perception of lightness. Journal of Vision, 2010, 3, 58-58.	0.1	1

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73	Orientation-tuned surround suppression improves computational models of human visual cortex. Journal of Vision, 2015, 15, 1001.	0.1	1
74	Mapping Spatial Frequency Preferences in the Human Visual Cortex. Journal of Vision, 2018, 18, 253.	0.1	1
75	Towards a computational observer model of perceptual performance fields. Journal of Vision, 2018, 18, 212.	0.1	1
76	A model-based approach to link MEG responses to neuronal synchrony in visual cortex. Journal of Vision, 2019, 19, 211d.	0.1	1
77	Computational validity of neuroimaging software: the case of population receptive fields. Journal of Vision, 2020, 20, 341.	0.1	1
78	Simulating imaging systems: Photons, parts and people. , 2011, , .		0
79	12. Visual system architecture. , 2016, , 159-180.		0
80	Temporal windows in psychophysical discrimination and in neural responses in human visual cortex. Journal of Vision, 2017, 17, 191.	0.1	0
81	An anatomically-defined template of BOLD response in V1-V3. Journal of Vision, 2017, 17, 585.	0.1	0
82	The topographical relationship between visual field maps in association cortex and brain areas involved in non-visual cognition. Journal of Vision, 2017, 17, 178.	0.1	0
83	Long-term spatial memory representations in human visual cortex. Journal of Vision, 2019, 19, 291c.	0.1	0
84	Asymmetries around the visual field in human visual cortex. Journal of Vision, 2020, 20, 543.	0.1	0
85	A validation framework for neuroimaging software: The case of population receptive fields. , 2020, 16, e1007924.		0
86	A validation framework for neuroimaging software: The case of population receptive fields. , 2020, 16, e1007924.		0
87	A validation framework for neuroimaging software: The case of population receptive fields. , 2020, 16, e1007924.		0
88	A validation framework for neuroimaging software: The case of population receptive fields. , 2020, 16, e1007924.		0