Geoffrey K Aguirre

List of Publications by Year
in descending order

123 papers	14,805 citations	36203 51 h-index	24915 109 g-index
146 all docs	146 docs citations	146 times ranked	13080 citing authors

#	Article	IF	Citations
1	Relationship between Visually Evoked Effects and Concussion in Youth. Journal of Neurotrauma, 2022, , .	1.7	1
2	Persistent horizontal and vertical, MR-induced nystagmus in resting state Human Connectome Project data. NeuroImage, 2022, 255, 119170.	2.1	4
3	Morality is in the eye of the beholder: the neurocognitive basis of the â€œanomalousâ€isâ€badâ€•stereotype. Annals of the New York Academy of Sciences, 2021, 1494, 3-17.	1.8	15
4	Developmental Effects on Pattern Visual Evoked Potentials Characterized by Principal Component Analysis. Translational Vision Science and Technology, 2021, 10, 1.	1.1	3
5	FlywheelTools: Data Curation and Manipulation on the Flywheel Platform. Frontiers in Neuroinformatics, 2021, 15, 678403.	1.3	7
6	A quadratic model captures the human V1 response to variations in chromatic direction and contrast. ELife, 2021, 10, .	2.8	3
7	Reflexive Eye Closure in Response to Cone and Melanopsin Stimulation. Neurology, 2021, 97, e1672-e1680.	1.5	5
8	Melanopic stimulation does not alter psychophysical threshold sensitivity for luminance flicker. Scientific Reports, 2021, 11, 20167.	1.6	5
9	A neural correlate of visual discomfort from flicker. Journal of Vision, 2020, 20, 11.	0.1	12
10	Autosomal dominant VCP hypomorph mutation impairs disaggregation of PHF-tau. Science, 2020, 370, .	6.0	85
11	Brain gyrification in wild and domestic canids: Has domestication changed the gyrification index in domestic dogs?. Journal of Comparative Neurology, 2020, 528, 3209-3228.	0.9	12
12	Selective amplification of ipRGC signals accounts for interictal photophobia in migraine. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 17320-17329.	3.3	22
13	The Influence of Axial Length Upon the Retinal Ganglion Cell Layer of the Human Eye. Translational Vision Science and Technology, 2020, 9, 9.	1.1	18
14	A model of the entrance pupil of the human eye. Scientific Reports, 2019, 9, 9360.	1.6	18
15	Behavioural and Neural Responses to Facial Disfigurement. Scientific Reports, 2019, 9, 8021.	1.6	29
16	A web-based, branching logic questionnaire for the automated classification of migraine. Cephalalgia, 2019, 39, 1257-1266.	1.8	16
17	Fully Automated Estimation of Spacing and Density for Retinal Mosaics. Translational Vision Science and Technology, 2019, 8, 26.	1.1	14
18	Shape Decomposition of Foveal Pit Morphology Using Scan Geometry Corrected OCT. Lecture Notes in Computer Science, 2019, 11855, 69-76.	1.0	0

#	Article	IF	Citations
19	A cell population model of retinal ganglion cell layer thickness. Journal of Vision, 2019, 19, 41c.	0.1	0
20	A Quadratic Model of the fMRI BOLD Response to Chromatic Modulations in V1. Journal of Vision, 2019, 19, 68c.	0.1	0
21	Adaptation to melanopic stimulation does not affect cone-mediated flicker sensitivity. Journal of Vision, 2019, 19, 72c.	0.1	0
22	Modeling and removal of eye signals does not abolish visual cortex resting state correlation structure. Journal of Vision, 2019, 19, 306.	0.1	0
23	Predicting future learning from baseline network architecture. NeuroImage, 2018, 172, 107-117.	2.1	52
24	Asymmetry of post-mortem neuropathology in behavioural-variant frontotemporal dementia. Brain, 2018, 141, 288-301.	3.7	56
25	Individual differences in response precision correlate with adaptation bias. Journal of Vision, 2018, 18, 18.	0.1	6
26	Pulses of Melanopsin-Directed Contrast Produce Highly Reproducible Pupil Responses That Are Insensitive to a Change in Background Radiance. , 2018, 59, 5615.		7
27	Adaptation decorrelates shape representations. Nature Communications, 2018, 9, 3812.	5.8	9
28	2D Modeling and Correction of Fan-Beam Scan Geometry in OCT. Lecture Notes in Computer Science, 2018, 11039, 328-335.	1.0	1
29	A spatial model of human retinal cell densities and solution for retinal ganglion cell displacement. Journal of Vision, 2018, 18, 23.	0.1	10
30	The population mean pupil response to melanopsin stimulation is reliable across sessions and background light levels. Journal of Vision, 2018, 18, 878.	0.1	0
31	Variation in Temporal Stimulus Integration Across Visual Cortex. Journal of Vision, 2018, 18, 1371.	0.1	0
32	The human visual cortex response to melanopsin-directed stimulation is accompanied by a distinct perceptual experience. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 12291-12296.	3.3	87
33	Vision: Melanopsin as a Raumgeber. Current Biology, 2017, 27, R644-R646.	1.8	1
34	Expectation modulates repetition priming under high stimulus variability. Journal of Vision, 2017, 17, 10.	0.1	8
35	Postretinal Structure and Function in Severe Congenital Photoreceptor Blindness Caused by Mutations in the GUCY2D Gene. , 2017, 58, 959.		16
36	Towards a two-dimensional, analytic solution for the radial displacement of retinal ganglion cells in the human retina. Journal of Vision, 2017, 17, 38.	0.1	0

#	Article	IF	Citations
37	The relative amplitude of pupil response to melanopsin stimulation is a stable individual difference. Journal of Vision, 2017, 17, 14.	0.1	1
38	Patterns of Individual Variation in Visual Pathway Structure and Function in the Sighted and Blind. PLoS ONE, 2016, 11, e0164677.	1.1	38
39	Overlap of abnormal photoreceptor development and progressive degeneration in Leber congenital amaurosis caused byNPHP5mutation. Human Molecular Genetics, 2016, 25, 4211-4226.	1.4	35
40	Variation of outdoor illumination as a function of solar elevation and light pollution. Scientific Reports, 2016, 6, 26756.	1.6	131
41	Varying Timescales of Stimulus Integration Unite Neural Adaptation and Prototype Formation. Current Biology, 2016, 26, 1669-1676.	1.8	28
42	Human Visual Cortex Responses to Rapid Cone and Melanopsin-Directed Flicker. Journal of Neuroscience, 2016, 36, 1471-1482.	1.7	35
43	Functional magnetic resonance imaging adaptation reveals a noncategorical representation of hue in early visual cortex. Journal of Vision, 2015, 15, 18.	0.1	22
44	Hierarchical and homotopic correlations of spontaneous neural activity within the visual cortex of the sighted and blind. Frontiers in Human Neuroscience, 2015, 9, 25.	1.0	20
45	Seeing the world through non rose-colored glasses: anxiety and the amygdala response to blended expressions. Frontiers in Human Neuroscience, 2015, 9, 152.	1.0	15
46	Pseudo-Fovea Formation After Gene Therapy for RPE65-LCA. Investigative Ophthalmology and Visual Science, 2015, 56, 526-537.	3.3	39
47	Value Is in the Eye of the Beholder: Early Visual Cortex Codes Monetary Value of Objects during a Diverted Attention Task. Journal of Cognitive Neuroscience, 2015, 27, 893-901.	1.1	19
48	Measurement of visual sensitivity in migraine: Validation of two scales and correlation with visual cortex activation. Cephalalgia, 2015, 35, 585-592.	1.8	61
49	Selective Stimulation of Penumbral Cones Reveals Perception in the Shadow of Retinal Blood Vessels. PLoS ONE, 2015, 10, e0124328.	1.1	47
50	Experimental Design and Data Analysis for fMRI. , 2015, , 37-50.		0
51	Correction of Distortion in Flattened Representations of the Cortical Surface Allows Prediction of V1-V3 Functional Organization from Anatomy. PLoS Computational Biology, 2014, 10, e1003538.	1.5	175
52	Functional Neuroimaging: Technical, Logical, and Social Perspectives. Hastings Center Report, 2014, 44, S8-18.	0.7	26
53	Opponent melanopsin and S-cone signals in the human pupillary light response. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 15568-15572.	3.3	161
54	Interictal cortical hyperresponsiveness in migraine is directly related to the presence of aura. Cephalalgia, 2013, 33, 365-374.	1.8	109

#	Article	IF	Citations
55	The Fine-Scale Functional Correlation of Striate Cortex in Sighted and Blind People. Journal of Neuroscience, 2013, 33, 16209-16219.	1.7	63
56	Migraine with Aura Is Associated with an Incomplete Circle of Willis: Results of a Prospective Observational Study. PLoS ONE, 2013, 8, e71007.	1.1	35
57	A Digital Atlas of the Dog Brain. PLoS ONE, 2012, 7, e52140.	1.1	85
58	The Retinotopic Organization of Striate Cortex Is Well Predicted by Surface Topology. Current Biology, 2012, 22, 2081-2085.	1.8	214
59	FIASCO, VoxBo, and MEDx: Behind the code. NeuroImage, 2012, 62, 765-767.	2.1	11
60	Confounding of norm-based and adaptation effects in brain responses. NeuroImage, 2012, 60, 2294-2299.	2.1	18
61	The development and future of perfusion fMRI for dynamic imaging of human brain activity. NeuroImage, 2012, 62, 1279-1285.	2.1	18
62	de Bruijn cycles for neural decoding. NeuroImage, 2011, 56, 1293-1300.	2.1	71
63	HumanCRB1-Associated Retinal Degeneration: Comparison with therd8 Crb1-Mutant Mouse Model. , 2011, 52, 6898.		98
64	Absence of changes in cortical thickness in patients with migraine. Cephalalgia, 2011, 31, 1452-1458.	1.8	56
65	Distances between Real-World Locations Are Represented in the Human Hippocampus. Journal of Neuroscience, 2011, 31, 1238-1245.	1.7	181
66	Experimental Design and Data Analysis for fMRI. , 2011, , 321-330.		0
67	Carving the Clock at Its Component Joints: Neural Bases for Interval Timing. Journal of Neurophysiology, 2010, 104, 160-168.	0.9	42
68	Neural Tuning for Face Wholes and Parts in Human Fusiform Gyrus Revealed by fMRI Adaptation. Journal of Neurophysiology, 2010, 104, 336-345.	0.9	65
69	Temporally distinct neural coding of perceptual similarity and prototype bias. Journal of Vision, 2010, 10, 12-12.	0.1	11
70	Different Spatial Scales of Shape Similarity Representation in Lateral and Ventral LOC. Cerebral Cortex, 2009, 19, 2269-2280.	1.6	156
71	The neural response to facial attractiveness.. Neuropsychology, 2009, 23, 135-143.	1.0	190
72	Physiological origin of lowâ€frequency drift in blood oxygen level dependent (BOLD) functional magnetic resonance imaging (fMRI). Magnetic Resonance in Medicine, 2009, 61, 819-827.	1.9	61

#	Article	IF	Citations
73	Distinguishing Conjoint and Independent Neural Tuning for Stimulus Features With fMRI Adaptation. Journal of Neurophysiology, 2009, 101, 3310-3324.	0.9	27
74	Empirical optimization of ASL data analysis using an ASL data processing toolbox: ASLtbx. Magnetic Resonance Imaging, 2008, 26, 261-269.	1.0	406
75	Activation of human auditory cortex during speech perception: Effects of monaural, binaural, and dichotic presentation. Neuropsychologia, 2008, 46, 301-315.	0.7	52
76	The Philadelphia Face Perception Battery. Archives of Clinical Neuropsychology, 2008, 23, 175-187.	0.3	18
77	The effects of parts, wholes, and familiarity on face-selective responses in MEG. Journal of Vision, 2008, 8, 4-4.	0.1	24
78	The Representation of Parts and Wholes in Face-selective Cortex. Journal of Cognitive Neuroscience, 2008, 20, 863-878.	1.1	77
79	Neural Activity within Area V1 Reflects Unconscious Visual Performance in a Case of Blindsight. Journal of Cognitive Neuroscience, 2008, 20, 1927-1939.	1.1	41
80	Screening for Frontotemporal Dementias and Alzheimerâ€™s Disease with the Philadelphia Brief Assessment of Cognition: A Preliminary Analysis. Dementia and Geriatric Cognitive Disorders, 2007, 24, 441-447.	0.7	39
81	Item analysis in functional magnetic resonance imaging. NeuroImage, 2007, 35, 1093-1102.	2.1	50
82	Continuous carry-over designs for fMRI. NeuroImage, 2007, 35, 1480-1494.	2.1	172
83	Canine and Human Visual Cortex Intact and Responsive Despite Early Retinal Blindness from RPE65 Mutation. PLoS Medicine, 2007, 4, e230.	3.9	107
84	Centrosomal-ciliary geneCEP290/NPHP6 mutations result in blindness with unexpected sparing of photoreceptors and visual brain: implications for therapy of Leber congenital amaurosis. Human Mutation, 2007, 28, 1074-1083.	1.1	148
85	Prosopagnosia. Current Biology, 2007, 17, R7-R8.	1.8	8
86	Using perfusion fMRI to measure continuous changes in neural activity with learning. Brain and Cognition, 2006, 60, 262-271.	0.8	53
87	Cortical correlates of face and scene inversion: A comparison. Neuropsychologia, 2006, 44, 1145-1158.	0.7	104
88	To smooth or not to smooth? ROC analysis of perfusion fMRI data. Magnetic Resonance Imaging, 2005, 23, 75-81.	1.0	53
89	Perfusion fMRI for Functional Neuroimaging. International Review of Neurobiology, 2005, 66, 213-236.	0.9	64
90	The role of prefrontal cortex in resolving distractor interference. Cognitive, Affective and Behavioral Neuroscience, 2004, 4, 517-527.	1.0	72

#	Article	IF	Citations
91	Arterial spin labeling perfusion fMRI with very low task frequency. Magnetic Resonance in Medicine, 2003, 49, 796-802.	1.9	310
92	Empirical analyses of null-hypothesis perfusion FMRI data at 1.5 and 4 T. NeuroImage, 2003, 19, 1449-1462.	2.1	54
93	Modulation of Amygdalar Activity by the Conscious Regulation of Negative Emotion. Journal of Cognitive Neuroscience, 2002, 14, 913-921.	1.1	277
94	Neural Specialization for Letter Recognition. Journal of Cognitive Neuroscience, 2002, 14, 145-159.	1.1	236
95	Experimental Design and the Relative Sensitivity of BOLD and Perfusion fMRI. NeuroImage, 2002, 15, 488-500.	2.1	365
96	Turning the Dial on Object Perception. Neuron, 2001, 29, 317-319.	3.8	2
97	Cortical effects of bromocriptine, a D-2 dopamine receptor agonist, in human subjects, revealed by fMRI. Human Brain Mapping, 2001, 12, 246-257.	1.9	91
98	Modulation of task-related neural activity in task-switching: an fMRI study. Cognitive Brain Research, 2000, 10, 189-196.	3.3	184
99	Replication and further studies of neural mechanisms of spatial mnemonic processing in humans. Cognitive Brain Research, 2000, 9, 1-17.	3.3	44
100	The Role of Prefrontal Cortex in Sensory Memory and Motor Preparation: An Event-Related fMRI Study. NeuroImage, 2000, 11, 400-408.	2.1	113
101	A neural basis for category and modality specificity of semantic knowledge. Neuropsychologia, 1999, 37, 671-676.	0.7	264
102	The Effect of Normal Aging on the Coupling of Neural Activity to the Bold Hemodynamic Response. NeuroImage, 1999, 10, 6-14.	2.1	440
103	Face Recognition Turned Upside-Down. Neuron, 1999, 22, 5-6.	3.8	3
104	Imaging visual recognition: PET and fMRI studies of the functional anatomy of human visual recognition. Trends in Cognitive Sciences, 1999, 3, 179-186.	4.0	83
105	Temporal isolation of the neural correlates of spatial mnemonic processing with fMRI. Cognitive Brain Research, 1999, 7, 255-268.	3.3	126
106	Stimulus inversion and the responses of face and object-sensitive cortical areas. NeuroReport, 1999, 10, 189-194.	0.6	138
107	A critique of the use of the Kolmogorov-Smirnov (KS) statistic for the analysis of BOLD fMRI data. Magnetic Resonance in Medicine, 1998, 39, 500-505.	1.9	56
108	An Area within Human Ventral Cortex Sensitive to â€œBuildingâ€•Stimuli. Neuron, 1998, 21, 373-383.	3.8	491

#	Article	IF	Citations
109	Functional MRI studies of spatial and nonspatial working memory. Cognitive Brain Research, 1998, 7, 1-13.	3.3	914
110	The Variability of Human, BOLD Hemodynamic Responses. NeuroImage, 1998, 8, 360-369.	2.1	1,103
111	Human Prefrontal Cortex Is Not Specific for Working Memory: A Functional MRI Study. NeuroImage, 1998, 8, 274-282.	2.1	130
112	The Inferential Impact of Global Signal Covariates in Functional Neuroimaging Analyses. NeuroImage, 1998, 8, 302-306.	2.1	212
113	Neural components of topographical representation. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 839-846.	3.3	165
114	<title>Effect of spatial normalization on analysis of functional data</title>. , 1997, , .		9
115	Role of left inferior prefrontal cortex in retrieval of semantic knowledge: A reevaluation. Proceedings of the National Academy of Sciences of the United States of America, 1997, 94, 14792-14797.	3.3	1,819
116	Empirical Analyses of BOLD fMRI Statistics. NeuroImage, 1997, 5, 199-212.	2.1	279
117	A Trial-Based Experimental Design for fMRI. NeuroImage, 1997, 6, 122-138.	2.1	428
118	The Effect of Pacing of Experimental Stimuli on Observed Functional MRI Activity. NeuroImage, 1997, 6, 113-121.	2.1	46
119	Empirical Analyses of BOLD fMRI Statistics. NeuroImage, 1997, 5, 179-197.	2.1	658
120	Environmental Knowledge Is Subserved by Separable Dorsal/Ventral Neural Areas. Journal of Neuroscience, 1997, 17, 2512-2518.	1.7	272
121	A functional MRI study of mental image generation. Neuropsychologia, 1997, 35, 725-730.	0.7	470
122	Coupling of Cortical and Thalamic Ictal Activity in Human Partial Epilepsy: Demonstration by Functional Magnetic Resonance Imaging. Epilepsia, 1996, 37, 657-661.	2.6	71
123	The Parahippocampus Subserves Topographical Learning in Man. Cerebral Cortex, 1996, 6, 823-829.	1.6	567