Guy A Orban

List of Publications by Year
in descending order

91	9,612	36203 51	46693 89
papers	citations	h-index	g-index

94	94	94	5666
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Visual Motion Processing Investigated Using Contrast Agent-Enhanced fMRI in Awake Behaving Monkeys. Neuron, 2001, 32, 565-577.	3.8	482
2	Extracting 3D from Motion: Differences in Human and Monkey Intraparietal Cortex. Science, 2002, 298, 413-415.	6.0	378
3	Selectivity of Neuronal Adaptation Does Not Match Response Selectivity: A Single-Cell Study of the fMRI Adaptation Paradigm. Neuron, 2006, 49, 307-318.	3.8	371
4	The Representation of Tool Use in Humans and Monkeys: Common and Uniquely Human Features. Journal of Neuroscience, 2009, 29, 11523-11539.	1.7	354
5	Human perceptual learning in identifying the oblique orientation: retinotopy, orientation specificity and monocularity.. Journal of Physiology, 1995, 483, 797-810.	1.3	339
6	Motion-responsive regions of the human brain. Experimental Brain Research, 1999, 127, 355-370.	0.7	333
7	The Retinotopic Organization of the Human Middle Temporal Area MT/V5 and Its Cortical Neighbors. Journal of Neuroscience, 2010, 30, 9801-9820.	1.7	320
8	Cue-invariant shape selectivity of macaque inferior temporal neurons. Science, 1993, 260, 995-997.	6.0	281
9	Evolutionarily Novel Functional Networks in the Human Brain?. Journal of Neuroscience, 2013, 33, 3259-3275.	1.7	266
10	Repeated fMRI Using Iron Oxide Contrast Agent in Awake, Behaving Macaques at 3 Tesla. NeuroImage, 2002, 16, 283-294.	2.1	250
11	Selectivity for 3D Shape That Reveals Distinct Areas Within Macaque Inferior Temporal Cortex. Science, 2000, 288, 2054-2056.	6.0	249
12	The Processing of Visual Shape in the Cerebral Cortex of Human and Nonhuman Primates: A Functional Magnetic Resonance Imaging Study. Journal of Neuroscience, 2004, 24, 2551-2565.	1.7	238
13	Action Observation Circuits in the Macaque Monkey Cortex. Journal of Neuroscience, 2011, 31, 3743-3756.	1.7	230
14	Higher Order Visual Processing in Macaque Extrastriate Cortex. Physiological Reviews, 2008, 88, 59-89.	13.1	227
15	The Processing of Three-Dimensional Shape from Disparity in the Human Brain. Journal of Neuroscience, 2009, 29, 727-742.	1.7	218
16	Macaque inferior temporal neurons are selective for disparity-defined three-dimensional shapes. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 8217-8222.	3.3	207
17	The kinetic occipital (KO) region in man: an fMRI study. Cerebral Cortex, 1997, 7, 690-701.	1.6	194
18	Coding Observed Motor Acts: Different Organizational Principles in the Parietal and Premotor Cortex of Humans. Journal of Neurophysiology, 2010, 104, 128-140.	0.9	191

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19	The neural basis of human tool use. Frontiers in Psychology, 2014, 5, 310.	1.1	189
20	Human orientation discrimination tested with long stimuli. Vision Research, 1984, 24, 121-128.	0.7	181
21	Human Functional Magnetic Resonance Imaging Reveals Separation and Integration of Shape and Motion Cues in Biological Motion Processing. Journal of Neuroscience, 2009, 29, 7315-7329.	1.7	180
22	The kinetic occipital region in human visual cortex. Cerebral Cortex, 1997, 7, 283-292.	1.6	178
23	Three-Dimensional Shape Coding in Inferior Temporal Cortex. Neuron, 2000, 27, 385-397.	3.8	163
24	Anterior Regions of Monkey Parietal Cortex Process Visual 3D Shape. Neuron, 2007, 55, 493-505.	3.8	163
25	Human Cortical Regions Involved in Extracting Depth from Motion. Neuron, 1999, 24, 929-940.	3.8	161
26	The Retinotopic Organization of Primate Dorsal V4 and Surrounding Areas: A Functional Magnetic Resonance Imaging Study in Awake Monkeys. Journal of Neuroscience, 2003, 23, 7395-7406.	1.7	156
27	The Extraction of 3D Shape in the Visual System of Human and Nonhuman Primates. Annual Review of Neuroscience, 2011, 34, 361-388.	5.0	154
28	Correspondences between retinotopic areas and myelin maps in human visual cortex. NeuroImage, 2014, 99, 509-524.	2.1	117
29	A Distinct Representation of Three-Dimensional Shape in Macaque Anterior Intraparietal Area: Fast, Metric, and Coarse. Journal of Neuroscience, 2009, 29, 10613-10626.	1.7	116
30	The Organization of Orientation Selectivity Throughout Macaque Visual Cortex. Cerebral Cortex, 2002, 12, 647-662.	1.6	112
31	Attention to 3-D Shape, 3-D Motion, and Texture in 3-D Structure from Motion Displays. Journal of Cognitive Neuroscience, 2004, 16, 665-682.	1.1	110
32	Perception of Three-Dimensional Shape From Specular Highlights, Deformations of Shading, and Other Types of Visual Information. Psychological Science, 2004, 15, 565-570.	1.8	109
33	Search for Color 'Center(s)' in Macaque Visual Cortex. Cerebral Cortex, 2004, 14, 353-363.	1.6	102
34	Interspecies activity correlations reveal functional correspondence between monkey and human brain areas. Nature Methods, 2012, 9, 277-282.	9.0	101
35	Common and Segregated Processing of Observed Actions in Human SPL. Cerebral Cortex, 2013, 23, 2734-2753.	1.6	99
36	Attention to Speed of Motion, Speed Discrimination, and Task Difficulty: An fMRI Study. NeuroImage, 2000, 11, 612-623.	2.1	97

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37	Functional properties of the left parietal tool use region. NeuroImage, 2013, 78, 83-93.	2.1	95
38	Monkey Cortex through fMRI Glasses. Neuron, 2014, 83, 533-550.	3.8	95
39	End-zone region in receptive fields of hypercomplex and other striate neurons in the cat. Journal of Neurophysiology, 1979, 42, 818-832.	0.9	94
40	The Extraction of 3D Shape from Texture and Shading in the Human Brain. Cerebral Cortex, 2008, 18, 2416-2438.	1.6	92
41	The Retinotopic Organization of Macaque Occipitotemporal Cortex Anterior to V4 and Caudoventral to the Middle Temporal (MT) Cluster. Journal of Neuroscience, 2014, 34, 10168-10191.	1.7	88
42	Four-dimensional maps of the human somatosensory system. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E1936-43.	3.3	87
43	Integration of shape and motion cues in biological motion processing in the monkey STS. NeuroImage, 2012, 60, 911-921.	2.1	84
44	Selectivity of Macaque MT/V5 Neurons for Surface Orientation in Depth Specified by Motion. European Journal of Neuroscience, 1997, 9, 956-964.	1.2	83
45	Responses of monkey inferior temporal neurons to luminance-, motion-, and texture-defined gratings. Journal of Neurophysiology, 1995, 73, 1341-1354.	0.9	82
46	Processing of kinetically defined boundaries in the cortical motion area MT of the macaque monkey. Journal of Neurophysiology, 1995, 74, 1258-1270.	0.9	75
47	Processing of Kinetically Defined Boundaries in Areas V1 and V2 of the Macaque Monkey. Journal of Neurophysiology, 2000, 84, 2786-2798.	0.9	69
48	Color Discrimination Involves Ventral and Dorsal Stream Visual Areas. Cerebral Cortex, 2004, 14, 803-822.	1.6	61
49	The monkey ventral premotor cortex processes 3D shape from disparity. NeuroImage, 2009, 47, 262-272.	2.1	60
50	Functional definitions of parietal areas in human and non-human primates. Proceedings of the Royal Society B: Biological Sciences, 2016, 283, 20160118.	1.2	59
51	Processing of Kinetic Boundaries in Macaque V4. Journal of Neurophysiology, 2006, 95, 1864-1880.	0.9	58
52	Anterior Intraparietal Area: A Hub in the Observed Manipulative Action Network. Cerebral Cortex, 2019, 29, 1816-1833.	1.6	51
53	The organization of the posterior parietal cortex devoted to upper limb actions: An fMRI study. Human Brain Mapping, 2015, 36, 3845-3866.	1.9	46
54	Visual gravity cues in the interpretation of biological movements: neural correlates in humans. NeuroImage, 2015, 104, 221-230.	2.1	46

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55	Chronic neural probe for simultaneous recording of single-unit, multi-unit, and local field potential activity from multiple brain sites. Journal of Neural Engineering, 2016, 13, 046006.	1.8	41
56	A shared neural substrate for action verbs and observed actions in human posterior parietal cortex. Science Advances, 2020, 6, .	4.7	39
57	The transition in the ventral stream from feature to real-world entity representations. Frontiers in Psychology, 2014, 5, 695.	1.1	38
58	The neuronal machinery involved in successive orientation discrimination. Progress in Neurobiology, 1998, 55, 117-147.	2.8	37
59	Multiple time courses of somatosensory responses in human cortex. NeuroImage, 2018, 169, 212-226.	2.1	36
60	From Observed Action Identity to Social Affordances. Trends in Cognitive Sciences, 2021, 25, 493-505.	4.0	36
61	The Extraction of Depth Structure from Shading and Texture in the Macaque Brain. PLoS ONE, 2009, 4, e8306.	1.1	33
62	Comparing Parietal Quantity-Processing Mechanisms between Humans and Macaques. Trends in Cognitive Sciences, 2017, 21, 779-793.	4.0	32
63	A human homologue of monkey F5c. NeuroImage, 2015, 111, 251-266.	2.1	28
64	Effects of Inferior Temporal Lesions on Two Types of Orientation Discrimination in the Macaque Monkey. European Journal of Neuroscience, 1997, 9, 229-245.	1.2	27
65	3D Shape Perception in Posterior Cortical Atrophy: A Visual Neuroscience Perspective. Journal of Neuroscience, 2015, 35, 12673-12692.	1.7	27
66	The Selectivity of Neurons in the Macaque Fundus of the Superior Temporal Area for Three-Dimensional Structure from Motion. Journal of Neuroscience, 2010, 30, 15491-15508.	1.7	26
67	Stable readout of observed actions from format-dependent activity of monkeyâ€™s anterior intraparietal neurons. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 16596-16605.	3.3	24
68	Fine-grained stimulus representations in body selective areas of human occipito-temporal cortex. NeuroImage, 2014, 102, 484-497.	2.1	22
69	Orientation discrimination of motion-defined gratings. Vision Research, 1994, 34, 1331-1334.	0.7	20
70	Seeing biological actions in 3 <scp>D</scp> : An f <scp>MRI</scp> study. Human Brain Mapping, 2016, 37, 203-219.	1.9	20
71	Observing Others Speak or Sing Activates Spt and Neighboring Parietal Cortex. Journal of Cognitive Neuroscience, 2017, 29, 1002-1021.	1.1	19
72	Parietal maps of visual signals for bodily action planning. Brain Structure and Function, 2021, 226, 2967-2988.	1.2	18

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73	Stereoscopically Observing Manipulative Actions. Cerebral Cortex, 2016, 26, 3591-3610.	1.6	16
74	The unique role of parietal cortex in action observation: Functional organization for communicative and manipulative actions. NeuroImage, 2021, 237, 118220.	2.1	15
75	The role of putative human anterior intraparietal sulcus area in observed manipulative action discrimination. Brain and Behavior, 2019, 9, e01226.	1.0	14
76	An area specifically devoted to tool use in human left inferior parietal lobule. Behavioral and Brain Sciences, 2012, 35, 234-234.	0.4	13
77	Human stereoEEG recordings reveal network dynamics of decision-making in a rule-switching task. Nature Communications, 2020, 11, 3075.	5.8	13
78	Decomposing Tool-Action Observation: A Stereo-EEG Study. Cerebral Cortex, 2017, 27, 4229-4243.	1.6	12
79	Fast Compensatory Functional Network Changes Caused by Reversible Inactivation of Monkey Parietal Cortex. Cerebral Cortex, 2019, 29, 2588-2606.	1.6	12
80	Action observation: the less-explored part of higher-order vision. Scientific Reports, 2016, 6, 36742.	1.6	11
81	Binocular stereo acuity affects monocular three-dimensional shape perception in patients with strabismus. British Journal of Ophthalmology, 2018, 102, 1413-1418.	2.1	9
82	Rapid and specific processing of person-related information in human anterior temporal lobe. Communications Biology, 2019, 2, 5.	2.0	7
83	Characterization of network structure in stereoEEG data using consensus-based partial coherence. NeuroImage, 2018, 179, 385-402.	2.1	6
84	A parietal region processing numerosity of observed actions: An FMRI study. European Journal of Neuroscience, 2020, 52, 4732-4750.	1.2	5
85	Not all observed actions are perceived equally. Scientific Reports, 2017, 7, 17084.	1.6	4
86	Histological assessment of a chronically implanted cylindrically-shaped, polymer-based neural probe in the monkey. Journal of Neural Engineering, 2021, 18, 024001.	1.8	4
87	Action Observation as a Visual Process: Different Classes of Actions Engage Distinct Regions of Human PPC. Exploring Complexity, 2018, , 1-32.	0.1	3
88	The mirror system in human and nonhuman primates. Behavioral and Brain Sciences, 2014, 37, 215-216.	0.4	1
89	Sixty years of visual cortex single-cell studies to explain the perceptual deficits of Davida. Cognitive Neuropsychology, 2022, 39, 60-63.	0.4	1
90	Functional Imaging of the Human Visual System. Neuromethods, 2016, , 545-572.	0.2	0

#	Article	IF	Citations
91	Monkeys face face distortions. Nature Neuroscience, 2017, 20, 635-636.	7.1	0