

Robert Desimone

List of Publications by Year in descending order

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107
papers

38,536
citations

13827

67
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31759

101
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112
all docs

112
docs citations

112
times ranked

19124
citing authors

#	ARTICLE	IF	CITATIONS
1	The cortical connectome of primate lateral prefrontal cortex. <i>Neuron</i> , 2022, 110, 312-327.e7.	3.8	25
2	Alpha Synchrony and the Neurofeedback Control of Spatial Attention. <i>Neuron</i> , 2020, 105, 577-587.e5.	3.8	90
3	Atypical behaviour and connectivity in SHANK3-mutant macaques. <i>Nature</i> , 2019, 570, 326-331.	13.7	172
4	The role of prefrontal cortex in the control of feature attention in area V4. <i>Nature Communications</i> , 2019, 10, 5727.	5.8	46
5	Enhanced Neural Processing by Covert Attention only during Microsaccades Directed toward the Attended Stimulus. <i>Neuron</i> , 2018, 99, 207-214.e3.	3.8	87
6	Alpha and gamma neurofeedback reinforce control of spatial attention. <i>Journal of Vision</i> , 2017, 17, 385.	0.1	4
7	Protein-retention expansion microscopy of cells and tissues labeled using standard fluorescent proteins and antibodies. <i>Nature Biotechnology</i> , 2016, 34, 987-992.	9.4	510
8	Opportunities and challenges in modeling human brain disorders in transgenic primates. <i>Nature Neuroscience</i> , 2016, 19, 1123-1130.	7.1	115
9	Gamma-Rhythmic Gain Modulation. <i>Neuron</i> , 2016, 92, 240-251.	3.8	111
10	Pulvinar-Cortex Interactions in Vision and Attention. <i>Neuron</i> , 2016, 89, 209-220.	3.8	257
11	Transcranial alternating current stimulation (tACS) reveals causal role of brain oscillations in visual attention. <i>Journal of Vision</i> , 2016, 16, 937.	0.1	4
12	Custom-fit radiolucent cranial implants for neurophysiological recording and stimulation. <i>Journal of Neuroscience Methods</i> , 2015, 241, 146-154.	1.3	29
13	A Source for Feature-Based Attention in the Prefrontal Cortex. <i>Neuron</i> , 2015, 88, 832-844.	3.8	258
14	Connectional subdivision of the claustrum: two visuotopic subdivisions in the macaque. <i>Frontiers in Systems Neuroscience</i> , 2014, 8, 63.	1.2	29
15	Subcortical Projections of Area V2 in the Macaque. <i>Journal of Cognitive Neuroscience</i> , 2014, 26, 1220-1233.	1.1	21
16	Effect of Microstimulation of the Superior Colliculus on Visual Space Attention. <i>Journal of Cognitive Neuroscience</i> , 2014, 26, 1208-1219.	1.1	8
17	Stimulus repetition modulates gamma-band synchronization in primate visual cortex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 3626-3631.	3.3	112
18	Neural Mechanisms of Object-Based Attention. <i>Science</i> , 2014, 344, 424-427.	6.0	445

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19	Subcortical connections of area V4 in the macaque. <i>Journal of Comparative Neurology</i> , 2014, 522, 1941-1965.	0.9	71
20	Lesions of prefrontal cortex reduce attentional modulation of neuronal responses and synchrony in V4. <i>Nature Neuroscience</i> , 2014, 17, 1003-1011.	7.1	166
21	A procedure for testing across-condition rhythmic spike-field association change. <i>Journal of Neuroscience Methods</i> , 2013, 213, 43-62.	1.3	18
22	Attentional Modulation of Cell-Class-Specific Gamma-Band Synchronization in Awake Monkey Area V4. <i>Neuron</i> , 2013, 80, 1077-1089.	3.8	174
23	Rhythmic neuronal synchronization in visual cortex entails spatial phase relation diversity that is modulated by stimulation and attention. <i>NeuroImage</i> , 2013, 74, 99-116.	2.1	36
24	Cell-Type-Specific Synchronization of Neural Activity in FEF with V4 during Attention. <i>Neuron</i> , 2012, 73, 581-594.	3.8	217
25	Feature-Based Attention in the Frontal Eye Field and Area V4 during Visual Search. <i>Neuron</i> , 2011, 70, 1205-1217.	3.8	190
26	A High-Light Sensitivity Optical Neural Silencer: Development and Application to Optogenetic Control of Non-Human Primate Cortex. <i>Frontiers in Systems Neuroscience</i> , 2011, 5, 18.	1.2	421
27	Stimulation of the nucleus accumbens as behavioral reward in awake behaving monkeys. <i>Journal of Neuroscience Methods</i> , 2011, 199, 265-272.	1.3	21
28	Laminar differences in gamma and alpha coherence in the ventral stream. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 11262-11267.	3.3	547
29	Object decoding with attention in inferior temporal cortex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 8850-8855.	3.3	150
30	A backward progression of attentional effects in the ventral stream. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 361-365.	3.3	252
31	Neural synchrony and selective attention. , 2009, , .		1
32	A Microsaccadic Rhythm Modulates Gamma-Band Synchronization and Behavior. <i>Journal of Neuroscience</i> , 2009, 29, 9471-9480.	1.7	202
33	Attentional control during the transient updating of cue information. <i>Brain Research</i> , 2009, 1247, 149-158.	1.1	31
34	The prefrontal cortex and the executive control of attention. <i>Experimental Brain Research</i> , 2009, 192, 489-497.	0.7	269
35	Millisecond-Timescale Optical Control of Neural Dynamics in the Nonhuman Primate Brain. <i>Neuron</i> , 2009, 62, 191-198.	3.8	460
36	Long-range neural coupling through synchronization with attention. <i>Progress in Brain Research</i> , 2009, 176, 35-45.	0.9	76

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37	High-Frequency, Long-Range Coupling Between Prefrontal and Visual Cortex During Attention. <i>Science</i> , 2009, 324, 1207-1210.	6.0	1,075
38	Cortical Connections of Area V4 in the Macaque. <i>Cerebral Cortex</i> , 2008, 18, 477-499.	1.6	274
39	The Effects of Visual Stimulation and Selective Visual Attention on Rhythmic Neuronal Synchronization in Macaque Area V4. <i>Journal of Neuroscience</i> , 2008, 28, 4823-4835.	1.7	379
40	Prosthetic systems for therapeutic optical activation and silencing of genetically targeted neurons. <i>Proceedings of SPIE</i> , 2008, 6854, 68540H.	0.8	57
41	Top-down Attentional Deficits in Macaques with Lesions of Lateral Prefrontal Cortex. <i>Journal of Neuroscience</i> , 2007, 27, 11306-11314.	1.7	157
42	Modulation of Neuronal Interactions Through Neuronal Synchronization. <i>Science</i> , 2007, 316, 1609-1612.	6.0	1,197
43	Chapter 9 Finding a face in the crowd: parallel and serial neural mechanisms of visual selection. <i>Progress in Brain Research</i> , 2006, 155, 147-156.	0.9	34
44	Gamma-band synchronization in visual cortex predicts speed of change detection. <i>Nature</i> , 2006, 439, 733-736.	13.7	690
45	Empirical mode decomposition: a method for analyzing neural data. <i>Neurocomputing</i> , 2005, 65-66, 801-807.	3.5	104
46	Empirical mode decomposition of field potentials from macaque V4 in visual spatial attention. <i>Biological Cybernetics</i> , 2005, 92, 380-392.	0.6	73
47	Parallel and Serial Neural Mechanisms for Visual Search in Macaque Area V4. <i>Science</i> , 2005, 308, 529-534.	6.0	609
48	Selectivity and sparseness in the responses of striate complex cells. <i>Vision Research</i> , 2005, 45, 57-73.	0.7	68
49	Selective Visual Attention Modulates Oscillatory Neuronal Synchronization. , 2005, , 520-525.		3
50	Impaired Filtering of Distracter Stimuli by TE Neurons following V4 and TEO Lesions in Macaques. <i>Cerebral Cortex</i> , 2004, 15, 141-151.	1.6	34
51	Temporal dynamics of attention-modulated neuronal synchronization in macaque V4. <i>Neurocomputing</i> , 2003, 52-54, 481-487.	3.5	15
52	Generalized deficits in visual selective attention after V4 and TEO lesions in macaques. <i>European Journal of Neuroscience</i> , 2003, 18, 1671-1691.	1.2	33
53	From Humble Neural Beginnings Comes Knowledge of Numbers. <i>Neuron</i> , 2003, 37, 4-6.	3.8	3
54	Interacting Roles of Attention and Visual Saliency in V4. <i>Neuron</i> , 2003, 37, 853-863.	3.8	379

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55	Posterior parietal cortex and the filtering of distractors. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 4263-4268.	3.3	145
56	Impairments in Spatial Generalization of Visual Skills After V4 and TEO Lesions in Macaques (Macaca Tj ETQq0 0 0 rgBT /Overlock 10 Tf 0.6	0.6	10
57	Modulation of Oscillatory Neuronal Synchronization by Selective Visual Attention. Science, 2001, 291, 1560-1563.	6.0	2,496
58	Modulation of Sensory Suppression: Implications for Receptive Field Sizes in the Human Visual Cortex. Journal of Neurophysiology, 2001, 86, 1398-1411.	0.9	252
59	Contextual Modulation in Primary Visual Cortex of Macaques. Journal of Neuroscience, 2001, 21, 1698-1709.	1.7	154
60	Learning Increases Stimulus Saliency in Anterior Inferior Temporal Cortex of the Macaque. Journal of Neurophysiology, 2001, 86, 290-303.	0.9	78
61	Attention Increases Sensitivity of V4 Neurons. Neuron, 2000, 26, 703-714.	3.8	922
62	Clustering of perirhinal neurons with similar properties following visual experience in adult monkeys. Nature Neuroscience, 2000, 3, 1143-1148.	7.1	101
63	Subcortical connections of area V4 in the macaque. Anais Da Academia Brasileira De Ciencias, 2000, 72, 443-444.	0.3	0
64	Cortical connections of area V4 in the macaque. Anais Da Academia Brasileira De Ciencias, 2000, 72, 444-444.	0.3	0
65	Competitive Mechanisms Subserve Attention in Macaque Areas V2 and V4. Journal of Neuroscience, 1999, 19, 1736-1753.	1.7	1,177
66	Responses of Macaque Perirhinal Neurons during and after Visual Stimulus Association Learning. Journal of Neuroscience, 1999, 19, 10404-10416.	1.7	209
67	Loss of attentional stimulus selection after extrastriate cortical lesions in macaques. Nature Neuroscience, 1999, 2, 753-758.	7.1	154
68	Internal globus pallidus discharge is nearly suppressed during levodopa-induced dyskinesias. Annals of Neurology, 1999, 46, 732-738.	2.8	168
69	Increased Activity in Human Visual Cortex during Directed Attention in the Absence of Visual Stimulation. Neuron, 1999, 22, 751-761.	3.8	1,508
70	The Role of Neural Mechanisms of Attention in Solving the Binding Problem. Neuron, 1999, 24, 19-29.	3.8	325
71	Cognitive neuroscience. Current Opinion in Neurobiology, 1998, 8, 175-177.	2.0	3
72	Perceptual filling-in: a parametric study. Vision Research, 1998, 38, 2721-2734.	0.7	156

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73	Visual attention mediated by biased competition in extrastriate visual cortex. Philosophical Transactions of the Royal Society B: Biological Sciences, 1998, 353, 1245-1255.	1.8	587
74	Mechanisms of Directed Attention in the Human Extrastriate Cortex as Revealed by Functional MRI. , 1998, 282, 108-111.		821
75	Responses of Neurons in Inferior Temporal Cortex During Memory-Guided Visual Search. Journal of Neurophysiology, 1998, 80, 2918-2940.	0.9	630
76	Attention control og visual perception. Electroencephalography and Clinical Neurophysiology, 1997, 102, P4.	0.3	2
77	Object and Place Memory in the Macaque Entorhinal Cortex. Journal of Neurophysiology, 1997, 78, 1062-1081.	0.9	346
78	Neural Mechanisms of Spatial Selective Attention in Areas V1, V2, and V4 of Macaque Visual Cortex. Journal of Neurophysiology, 1997, 77, 24-42.	0.9	1,507
79	Neural Mechanisms of Visual Working Memory in Prefrontal Cortex of the Macaque. Journal of Neuroscience, 1996, 16, 5154-5167.	1.7	1,363
80	Cue-dependent deficits in grating orientation discrimination after V4 lesions in macaques. Visual Neuroscience, 1996, 13, 529-538.	0.5	132
81	ATTENTION CONTROL OF VISUAL PERCEPTION. Journal of Clinical Neurophysiology, 1996, 13, 349-350.	0.9	0
82	Is dopamine a missing link?. Nature, 1995, 376, 549-550.	13.7	62
83	Responses of cells in monkey visual cortex during perceptual filling-in of an artificial scotoma. Nature, 1995, 377, 731-734.	13.7	290
84	Neural Mechanisms of Selective Visual Attention. Annual Review of Neuroscience, 1995, 18, 193-222.	5.0	7,228
85	Inferior Temporal Mechanisms for Invariant Object Recognition. Cerebral Cortex, 1994, 4, 523-531.	1.6	204
86	A neural basis for visual search in inferior temporal cortex. Nature, 1993, 363, 345-347.	13.7	1,257
87	Memory-guided attentional systems. Spatial Vision, 1993, 7, 85.	1.4	0
88	A role for the corpus callosum in visual area V4 of the macaque. Visual Neuroscience, 1993, 10, 159-171.	0.5	76
89	Comparison of subcortical connections of inferior temporal and posterior parietal cortex in monkeys. Visual Neuroscience, 1993, 10, 59-72.	0.5	181
90	Scopolamine affects short-term memory but not inferior temporal neurons. NeuroReport, 1993, 4, 81.	0.6	59

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91	Subcortical connections of visual areas MST and FST in macaques. <i>Visual Neuroscience</i> , 1992, 9, 291-302.	0.5	128
92	Neural mechanisms of attention and memory in extrastriate cortex. <i>Neuroscience Research Supplement: the Official Journal of the Japan Neuroscience Society</i> , 1991, 16, X.	0.0	1
93	Visual topography of area TEO in the macaque. <i>Journal of Comparative Neurology</i> , 1991, 306, 554-575.	0.9	434
94	Face-Selective Cells in the Temporal Cortex of Monkeys. <i>Journal of Cognitive Neuroscience</i> , 1991, 3, 1-8.	1.1	504
95	Complexity at the neuronal level. <i>Behavioral and Brain Sciences</i> , 1990, 13, 446-446.	0.4	4
96	Pathways for motion analysis: Cortical connections of the medial superior temporal and fundus of the superior temporal visual areas in the macaque. <i>Journal of Comparative Neurology</i> , 1990, 296, 462-495.	0.9	627
97	Organization of visual cortical inputs to the striatum and subsequent outputs to the pallido-nigral complex in the monkey. <i>Journal of Comparative Neurology</i> , 1990, 298, 129-156.	0.9	304
98	Neural Mechanisms of Attention in Extrastriate Cortex of Monkeys. <i>Research Notes in Neural Computing</i> , 1989, , 169-182.	0.1	7
99	Projections to the superior temporal sulcus from the central and peripheral field representations of V1 and V2. <i>Journal of Comparative Neurology</i> , 1986, 248, 147-163.	0.9	175
100	Multiple visual areas in the caudal superior temporal sulcus of the macaque. <i>Journal of Comparative Neurology</i> , 1986, 248, 164-189.	0.9	562
101	Cortical connections of visual area MT in the macaque. <i>Journal of Comparative Neurology</i> , 1986, 248, 190-222.	0.9	885
102	Contour, color and shape analysis beyond the striate cortex. <i>Vision Research</i> , 1985, 25, 441-452.	0.7	538
103	Form, Color, and Motion Analysis in Prestriate Cortex of the Macaque. <i>Experimental Brain Research Supplementum</i> , 1985, , 165-178.	1.0	1
104	Subcortical projections of area MT in the macaque. <i>Journal of Comparative Neurology</i> , 1984, 223, 368-386.	0.9	242
105	PROPERTIES OF INFERIOR TEMPORAL NEURONS IN THE MACAQUE. , 1981, , 287-289.		0
106	Prestriate afferents to inferior temporal cortex: an HRP study. <i>Brain Research</i> , 1980, 184, 41-55.	1.1	169
107	Visual areas in the temporal cortex of the macaque. <i>Brain Research</i> , 1979, 178, 363-380.	1.1	538