Nikos K Logothetis

List of Publications by Year
in descending order

347 papers	47,860 citations	2423 97 h-index	2071 204 g-index
366 all docs	366 docs citations	366 times ranked	27822 citing authors

#	Article	IF	Citations
1	Neurophysiological investigation of the basis of the fMRI signal. Nature, 2001, 412, 150-157.	13.7	5,739
2	What we can do and what we cannot do with fMRI. Nature, 2008, 453, 869-878.	13.7	2,912
3	Interpreting the BOLD Signal. Annual Review of Physiology, 2004, 66, 735-769.	5.6	1,320
4	Visual competition. Nature Reviews Neuroscience, 2002, 3, 13-21.	4.9	1,305
5	Multistable phenomena: changing views in perception. Trends in Cognitive Sciences, 1999, 3, 254-264.	4.0	1,109
6	Shape representation in the inferior temporal cortex of monkeys. Current Biology, 1995, 5, 552-563.	1.8	919
7	Activity changes in early visual cortex reflect monkeys' percepts during binocular rivalry. Nature, 1996, 379, 549-553.	13.7	916
8	The Underpinnings of the BOLD Functional Magnetic Resonance Imaging Signal. Journal of Neuroscience, 2003, 23, 3963-3971.	1.7	880
9	Negative functional MRI response correlates with decreases in neuronal activity in monkey visual area V1. Nature Neuroscience, 2006, 9, 569-577.	7.1	809
10	The neural basis of the bloodâ€“oxygenâ€“levelâ€“dependent functional magnetic resonance imaging signal. Philosophical Transactions of the Royal Society B: Biological Sciences, 2002, 357, 1003-1037.	1.8	786
11	Modelling and analysis of local field potentials for studying the function of cortical circuits. Nature Reviews Neuroscience, 2013, 14, 770-785.	4.9	693
12	Scaling Brain Size, Keeping Timing: Evolutionary Preservation of Brain Rhythms. Neuron, 2013, 80, 751-764.	3.8	670
13	Very Slow Activity Fluctuations in Monkey Visual Cortex: Implications for Functional Brain Imaging. Cerebral Cortex, 2003, 13, 422-433.	1.6	594
14	What is rivalling during binocular rivalry?. Nature, 1996, 380, 621-624.	13.7	570
15	Decorrelated Neuronal Firing in Cortical Microcircuits. Science, 2010, 327, 584-587.	6.0	562
16	Visual categorization shapes feature selectivity in the primate temporal cortex. Nature, 2002, 415, 318-320.	13.7	511
17	Functional imaging of the monkey brain. Nature Neuroscience, 1999, 2, 555-562.	7.1	505
18	Neurophysiology of the BOLD fMRI Signal in Awake Monkeys. Current Biology, 2008, 18, 631-640.	1.8	504

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19	Multisensory Integration of Dynamic Faces and Voices in Rhesus Monkey Auditory Cortex. Journal of Neuroscience, 2005, 25, 5004-5012.	1.7	497
20	Visual Modulation of Neurons in Auditory Cortex. Cerebral Cortex, 2008, 18, 1560-1574.	1.6	478
21	Functions of the colour-opponent and broad-band channels of the visual system. Nature, 1990, 343, 68-70.	13.7	434
22	Sensory neural codes using multiplexed temporal scales. Trends in Neurosciences, 2010, 33, 111-120.	4.2	432
23	Spike-Phase Coding Boosts and Stabilizes Information Carried by Spatial and Temporal Spike Patterns. Neuron, 2009, 61, 597-608.	3.8	427
24	In Vivo Measurement of Cortical Impedance Spectrum in Monkeys: Implications for Signal Propagation. Neuron, 2007, 55, 809-823.	3.8	412
25	Low-Frequency Local Field Potentials and Spikes in Primary Visual Cortex Convey Independent Visual Information. Journal of Neuroscience, 2008, 28, 5696-5709.	1.7	381
26	Hippocampalâ€“cortical interaction during periods of subcortical silence. Nature, 2012, 491, 547-553.	13.7	370
27	Phase Locking of Single Neuron Activity to Theta Oscillations during Working Memory in Monkey Extrastriate Visual Cortex. Neuron, 2005, 45, 147-156.	3.8	369
28	Phase-of-Firing Coding of Natural Visual Stimuli in Primary Visual Cortex. Current Biology, 2008, 18, 375-380.	1.8	361
29	On the nature of the BOLD fMRI contrast mechanism. Magnetic Resonance Imaging, 2004, 22, 1517-1531.	1.0	349
30	Integration of Touch and Sound in Auditory Cortex. Neuron, 2005, 48, 373-384.	3.8	338
31	Stable perception of visually ambiguous patterns. Nature Neuroscience, 2002, 5, 605-609.	7.1	328
32	A voice region in the monkey brain. Nature Neuroscience, 2008, 11, 367-374.	7.1	323
33	Frequency-Band Coupling in Surface EEG Reflects Spiking Activity in Monkey Visual Cortex. Neuron, 2009, 64, 281-289.	3.8	314
34	Direct electrical stimulation of human cortex â€" the gold standard for mapping brain functions?. Nature Reviews Neuroscience, 2012, 13, 63-70.	4.9	313
35	Role of the color-opponent and broad-band channels in vision. Visual Neuroscience, 1990, 5, 321-346.	0.5	306
36	The effects of electrical microstimulation on cortical signal propagation. Nature Neuroscience, 2010, 13, 1283-1291.	7.1	301

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37	The Amplitude and Timing of the BOLD Signal Reflects the Relationship between Local Field Potential Power at Different Frequencies. Journal of Neuroscience, 2012, 32, 1395-1407.	1.7	300
38	Theta coupling between V4 and prefrontal cortex predicts visual short-term memory performance. Nature Neuroscience, 2012, 15, 456-462.	7.1	291
39	Vocal-Tract Resonances as Indexical Cues in Rhesus Monkeys. Current Biology, 2007, 17, 425-430.	1.8	289
40	The color-opponent and broad-band channels of the primate visual system. Trends in Neurosciences, 1990, 13, 392-398.	4.2	269
41	Spatio-temporal point-spread function of fMRI signal in human gray matter at 7 Tesla. NeuroImage, 2007, 35, 539-552.	2.1	266
42	Integration of Local Features into Global Shapes. Neuron, 2003, 37, 333-346.	3.8	260
43	Robust detection of ocular dominance columns in humans using Hahn Spin Echo BOLD functional MRI at 7 Tesla. NeuroImage, 2007, 37, 1161-1177.	2.1	258
44	Distribution of axon diameters in cortical white matter: an electron-microscopic study on three human brains and a macaque. Biological Cybernetics, 2014, 108, 541-557.	0.6	255
45	Mechanisms for Allocating Auditory Attention: An Auditory Saliency Map. Current Biology, 2005, 15, 1943-1947.	1.8	249
46	Do early sensory cortices integrate cross-modal information?. Brain Structure and Function, 2007, 212, 121-132.	1.2	247
47	Encoding of Naturalistic Stimuli by Local Field Potential Spectra in Networks of Excitatory and Inhibitory Neurons. PLoS Computational Biology, 2008, 4, e1000239.	1.5	247
48	Facial-Expression and Gaze-Selective Responses in the Monkey Amygdala. Current Biology, 2007, 17, 766-772.	1.8	238
49	Facial expressions linked to monkey calls. Nature, 2003, 423, 937-938.	13.7	236
50	Mapping Cortical Activity Elicited with Electrical Microstimulation Using fMRI in the Macaque. Neuron, 2005, 48, 901-911.	3.8	234
51	High-Resolution fMRI Reveals Laminar Differences in Neurovascular Coupling between Positive and Negative BOLD Responses. Neuron, 2012, 76, 629-639.	3.8	234
52	The Microvascular System of the Striate and Extrastriate Visual Cortex of the Macaque. Cerebral Cortex, 2008, 18, 2318-2330.	1.6	229
53	Functional Imaging Reveals Visual Modulation of Specific Fields in Auditory Cortex. Journal of Neuroscience, 2007, 27, 1824-1835.	1.7	222
54	Noticing Familiar Objects in Real World Scenes: The Role of Temporal Cortical Neurons in Natural Vision. Journal of Neuroscience, 2001, 21, 1340-1350.	1.7	214

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55	Magnetic Resonance Imaging of Neuronal Connections in the Macaque Monkey. Neuron, 2002, 34, 685-700.	3.8	213
56	Microsaccades differentially modulate neural activity in the striate and extrastriate visual cortex. Experimental Brain Research, 1998, 123, 341-345.	0.7	212
57	Interactions between the Superior Temporal Sulcus and Auditory Cortex Mediate Dynamic Face/Voice Integration in Rhesus Monkeys. Journal of Neuroscience, 2008, 28, 4457-4469.	1.7	210
58	Lack of long-term cortical reorganization after macaque retinal lesions. Nature, 2005, 435, 300-307.	13.7	205
59	Inferring Spike Trains From Local Field Potentials. Journal of Neurophysiology, 2008, 99, 1461-1476.	0.9	201
60	A toolbox for the fast information analysis of multiple-site LFP, EEG and spike train recordings. BMC Neuroscience, 2009, 10, 81.	0.8	198
61	Functional Imaging Reveals Numerous Fields in the Monkey Auditory Cortex. PLoS Biology, 2006, 4, e215.	2.6	194
62	Visual Areas in Macaque Cortex Measured Using Functional Magnetic Resonance Imaging. Journal of Neuroscience, 2002, 22, 10416-10426.	1.7	184
63	Laminar specificity in monkey V1 using high-resolution SE-fMRI. Magnetic Resonance Imaging, 2006, 24, 381-392.	1.0	179
64	Neuronal Discharges and Gamma Oscillations Explicitly Reflect Visual Consciousness in the Lateral Prefrontal Cortex. Neuron, 2012, 74, 924-935.	3.8	176
65	Awakening: Predicting external stimulation to force transitions between different brain states. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 18088-18097.	3.3	176
66	Von Economo Neurons in the Anterior Insula of the Macaque Monkey. Neuron, 2012, 74, 482-489.	3.8	174
67	Attention But Not Awareness Modulates the BOLD Signal in the Human V1 During Binocular Suppression. Science, 2011, 334, 829-831.	6.0	173
68	Dynamic coupling of whole-brain neuronal and neurotransmitter systems. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 9566-9576.	3.3	173
69	Visual Enhancement of the Information Representation in Auditory Cortex. Current Biology, 2010, 20, 19-24.	1.8	168
70	Local field potential reflects perceptual suppression in monkey visual cortex. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 17507-17512.	3.3	166
71	Improvement of visual contrast detection by a simultaneous sound. Brain Research, 2007, 1173, 102-109.	1.1	164
72	Voice Cells in the Primate Temporal Lobe. Current Biology, 2011, 21, 1408-1415.	1.8	164

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73	Monkeys Match the Number of Voices They Hear to the Number of Faces They See. Current Biology, 2005, 15, 1034-1038.	1.8	159
74	Whole-Brain Multimodal Neuroimaging Model Using Serotonin Receptor Maps Explains Non-linear Functional Effects of LSD. Current Biology, 2018, 28, 3065-3074.e6.	1.8	159
75	Three-Dimensional Shape Representation in Monkey Cortex. Neuron, 2002, 33, 635-652.	3.8	152
76	Ultra High-Resolution fMRI in Monkeys with Implanted RF Coils. Neuron, 2002, 35, 227-242.	3.8	152
77	Recording Chronically From the Same Neurons in Awake, Behaving Primates. Journal of Neurophysiology, 2007, 98, 3780-3790.	0.9	151
78	Multisensory Integration of Looming Signals by Rhesus Monkeys. Neuron, 2004, 43, 177-181.	3.8	143
79	Metabolic and Hemodynamic Events after Changes in Neuronal Activity: Current Hypotheses, Theoretical Predictions and<i>in vivo</i>NMR Experimental Findings. Journal of Cerebral Blood Flow and Metabolism, 2009, 29, 441-463.	2.4	143
80	Comparing the feature selectivity of the gamma-band of the local field potential and the underlying spiking activity in primate visual cortex. Frontiers in Systems Neuroscience, 2008, 2, 2.	1.2	141
81	The effect of a serotonin-induced dissociation between spiking and perisynaptic activity on BOLD functional MRI. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 6759-6764.	3.3	139
82	fMRI and its interpretations: an illustration on directional selectivity in area V5/MT. Trends in Neurosciences, 2008, 31, 444-453.	4.2	137
83	The Coding of Color, Motion, and Their Conjunction in the Human Visual Cortex. Current Biology, 2009, 19, 177-183.	1.8	137
84	Unimodal Responses Prevail within the Multisensory Claustrum. Journal of Neuroscience, 2010, 30, 12902-12907.	1.7	136
85	The Locus Coeruleus Is a Complex and Differentiated Neuromodulatory System. Neuron, 2018, 99, 1055-1068.e6.	3.8	133
86	EEG Phase Patterns Reflect the Selectivity of Neural Firing. Cerebral Cortex, 2013, 23, 389-398.	1.6	128
87	Neurons in macaque area V4 acquire directional tuning after adaptation to motion stimuli. Nature Neuroscience, 2005, 8, 591-593.	7.1	126
88	Coding and Binding of Color and Form in Visual Cortex. Cerebral Cortex, 2010, 20, 1946-1954.	1.6	123
89	An Auditory Region in the Primate Insular Cortex Responding Preferentially to Vocal Communication Sounds. Journal of Neuroscience, 2009, 29, 1034-1045.	1.7	121
90	fMRI of the Face-Processing Network in the Ventral Temporal Lobe of Awake and Anesthetized Macaques. Neuron, 2011, 70, 352-362.	3.8	121

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91	Nonlinear partial differential equations and applications: Auditory looming perception in rhesus monkeys. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 15755-15757.	3.3	118
92	Millisecond encoding precision of auditory cortex neurons. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 16976-16981.	3.3	116
93	IS FACE RECOGNITION NOT SO UNIQUE AFTER ALL?. Cognitive Neuropsychology, 2000, 17, 125-142.	0.4	115
94	Humans and Macaques Employ Similar Face-Processing Strategies. Current Biology, 2009, 19, 509-513.	1.8	112
95	How not to study spontaneous activity. NeuroImage, 2009, 45, 1080-1089.	2.1	112
96	The Effect of Learning on the Function of Monkey Extrastriate Visual Cortex. PLoS Biology, 2004, 2, e44.	2.6	111
97	Feature selectivity of the gamma-band of the local field potential in primate primary visual cortex. Frontiers in Neuroscience, 2008, 2, 199-207.	1.4	108
98	Dissociation Between Local Field Potentials and Spiking Activity in Macaque Inferior Temporal Cortex Reveals Diagnosticity-Based Encoding of Complex Objects. Journal of Neuroscience, 2006, 26, 9639-9645.	1.7	104
99	fMRI at High Spatial Resolution: Implications for BOLD-Models. Frontiers in Computational Neuroscience, 2016, 10, 66.	1.2	104
100	Functional MRI Evidence for LTP-Induced Neural Network Reorganization. Current Biology, 2009, 19, 398-403.	1.8	103
101	Generalized Flash Suppression of Salient Visual Targets. Neuron, 2003, 39, 1043-1052.	3.8	102
102	Disrupting Parietal Function Prolongs Dominance Durations in Binocular Rivalry. Current Biology, 2010, 20, 2106-2111.	1.8	102
103	Perception of Temporally Interleaved Ambiguous Patterns. Current Biology, 2003, 13, 1076-1085.	1.8	101
104	Understanding the relationships between spike rate and delta/gamma frequency bands of LFPs and EEGs using a local cortical network model. NeuroImage, 2010, 52, 956-972.	2.1	101
105	Validation of High-Resolution Tractography Against<i>In Vivo</i>Tracing in the Macaque Visual Cortex. Cerebral Cortex, 2015, 25, 4299-4309.	1.6	101
106	Motion Processing in the Macaque: Revisited with Functional Magnetic Resonance Imaging. Journal of Neuroscience, 2001, 21, 8594-8601.	1.7	99
107	Spatial Organization of Multisensory Responses in Temporal Association Cortex. Journal of Neuroscience, 2009, 29, 11924-11932.	1.7	98
108	Shifts of Gamma Phase across Primary Visual Cortical Sites Reflect Dynamic Stimulus-Modulated Information Transfer. PLoS Biology, 2015, 13, e1002257.	2.6	95

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109	Modular architectonic organization of the insula in the macaque monkey. Journal of Comparative Neurology, 2014, 522, 64-97.	0.9	92
110	Unilateral electrical stimulation of rat locus coeruleus elicits bilateral response of norepinephrine neurons and sustained activation of medial prefrontal cortex. Journal of Neurophysiology, 2014, 111, 2570-2588.	0.9	91
111	MR imaging in the non-human primate: studies of function and of dynamic connectivity. Current Opinion in Neurobiology, 2003, 13, 630-642.	2.0	90
112	Multisensory interactions in primate auditory cortex: fMRI and electrophysiology. Hearing Research, 2009, 258, 80-88.	0.9	90
113	Diversity of sharp-waveâ€“ripple LFP signatures reveals differentiated brain-wide dynamical events. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E6379-87.	3.3	89
114	Nonmonotonic noise tuning of BOLD fMRI signal to natural images in the visual cortex of the anesthetized monkey. Current Biology, 2001, 11, 846-854.	1.8	87
115	Hippocampal Sharp-Wave Ripples Influence Selective Activation of the Default Mode Network. Current Biology, 2016, 26, 686-691.	1.8	86
116	Anatomical and functional MR imaging in the macaque monkey using a vertical large-bore 7 Tesla setup. Magnetic Resonance Imaging, 2004, 22, 1343-1359.	1.0	84
117	Smart Magnetic Resonance Imaging Agents that Sense Extracellular Calcium Fluctuations. ChemBioChem, 2008, 9, 1729-1734.	1.3	84
118	Cell-Targeted Optogenetics and Electrical Microstimulation Reveal the Primate Koniocellular Projection to Supra-granular Visual Cortex. Neuron, 2016, 90, 143-151.	3.8	82
119	The duration of 3-D form analysis in transformational apparent motion. Perception & Psychophysics, 2002, 64, 244-265.	2.3	80
120	Capillary hydrophilic interaction chromatography/mass spectrometry for simultaneous determination of multiple neurotransmitters in primate cerebral cortex. Rapid Communications in Mass Spectrometry, 2007, 21, 3621-3628.	0.7	79
121	Directed interactions between auditory and superior temporal cortices and their role in sensory integration. Frontiers in Integrative Neuroscience, 2009, 3, 7.	1.0	77
122	Temporal kernel CCA and its application in multimodal neuronal data analysis. Machine Learning, 2010, 79, 5-27.	3.4	77
123	Population receptive field analysis of the primary visual cortex complements perimetry in patients with homonymous visual field defects. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E1656-65.	3.3	76
124	Visually Driven Activation in Macaque Areas V2 and V3 without Input from the Primary Visual Cortex. PLoS ONE, 2009, 4, e5527.	1.1	75
125	Sensory information in local field potentials and spikes from visual and auditory cortices: time scales and frequency bands. Journal of Computational Neuroscience, 2010, 29, 533-545.	0.6	75
126	Tracing neural circuits in vivo with Mn-enhanced MRI. Magnetic Resonance Imaging, 2006, 24, 349-358.	1.0	73

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127	Modeling the effect of locus coeruleus firing on cortical state dynamics and single-trial sensory processing. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 12834-12839.	3.3	73
128	Occipital White Matter Tracts in Human and Macaque. Cerebral Cortex, 2017, 27, 3346-3359.	1.6	73
129	Relationship between neural and hemodynamic signals during spontaneous activity studied with temporal kernel CCA. Magnetic Resonance Imaging, 2010, 28, 1095-1103.	1.0	72
130	Spatial Specificity of BOLD versus Cerebral Blood Volume fMRI for Mapping Cortical Organization. Journal of Cerebral Blood Flow and Metabolism, 2007, 27, 1248-1261.	2.4	70
131	Magnetic resonance imaging of cortical connectivity in vivo. NeuroImage, 2008, 40, 458-472.	2.1	70
132	A New Class of Gd-Based DO3A-Ethylamine-Derived Targeted Contrast Agents for MR and Optical Imaging. Bioconjugate Chemistry, 2006, 17, 773-780.	1.8	69
133	A role of the claustrum in auditory scene analysis by reflecting sensory change. Frontiers in Systems Neuroscience, 2014, 8, 44.	1.2	69
134	Single-trial evoked potential estimation using wavelets. Computers in Biology and Medicine, 2007, 37, 463-473.	3.9	68
135	fMRI measurements of color in macaque and human. Journal of Vision, 2008, 8, 6-6.	0.1	68
136	The ins and outs of fMRI signals. Nature Neuroscience, 2007, 10, 1230-1232.	7.1	67
137	Individuation and holistic processing of faces in rhesus monkeys. Proceedings of the Royal Society B: Biological Sciences, 2007, 274, 2069-2076.	1.2	66
138	Ripple-triggered stimulation of the locus coeruleus during post-learning sleep disrupts ripple/spindle coupling and impairs memory consolidation. Learning and Memory, 2016, 23, 238-248.	0.5	66
139	Facile Synthesis and Relaxation Properties of Novel Bispolyazamacrocyclic Gd³⁺ Complexes: An Attempt towards Calcium-Sensitive MRI Contrast Agents. Inorganic Chemistry, 2008, 47, 1370-1381.	1.9	65
140	Cortical dynamics during naturalistic sensory stimulations: Experiments and models. Journal of Physiology (Paris), 2011, 105, 2-15.	2.1	64
141	Tuning to Sound Frequency in Auditory Field Potentials. Journal of Neurophysiology, 2007, 98, 1806-1809.	0.9	63
142	Parallel pathways in the visual system: Their role in perception at isoluminance. Neuropsychologia, 1991, 29, 433-441.	0.7	62
143	Can current fMRI techniques reveal the micro-architecture of cortex?. Nature Neuroscience, 2000, 3, 413-413.	7.1	62
144	Towards extracellular Ca2+ sensing by MRI: synthesis and calcium-dependent 1H and 17O relaxation studies of two novel bismacrocyclic Gd3+ complexes. Journal of Biological Inorganic Chemistry, 2007, 13, 35-46.	1.1	62

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145	From Neurons to Circuits: Linear Estimation of Local Field Potentials. Journal of Neuroscience, 2009, 29, 13785-13796.	1.7	62
146	A new method for estimating population receptive field topography in visual cortex. NeuroImage, 2013, 81, 144-157.	2.1	62
147	High-resolution fMRI of macaque V1. Magnetic Resonance Imaging, 2007, 25, 740-747.	1.0	61
148	Comparison of pattern recognition methods in classifying high-resolution BOLD signals obtained at high magnetic field in monkeys. Magnetic Resonance Imaging, 2008, 26, 1007-1014.	1.0	61
149	Who is That? Brain Networks and Mechanisms for Identifying Individuals. Trends in Cognitive Sciences, 2015, 19, 783-796.	4.0	61
150	Binocular motion rivalry in macaque monkeys: Eye dominance and tracking eye movements. Vision Research, 1990, 30, 1409-1419.	0.7	60
151	Eye movements of monkey observers viewing vocalizing conspecifics. Cognition, 2006, 101, 515-529.	1.1	60
152	Human Areas V3A and V6 Compensate for Self-Induced Planar Visual Motion. Neuron, 2012, 73, 1228-1240.	3.8	60
153	Dynamics of lactate concentration and blood oxygen level-dependent effect in the human visual cortex during repeated identical stimuli. Journal of Neuroscience Research, 2007, 85, 3340-6.	1.3	58
154	Causal relationships between frequency bands of extracellular signals in visual cortex revealed by an information theoretic analysis. Journal of Computational Neuroscience, 2010, 29, 547-566.	0.6	57
155	Auditory and Visual Modulation of Temporal Lobe Neurons in Voice-Sensitive and Association Cortices. Journal of Neuroscience, 2014, 34, 2524-2537.	1.7	57
156	Synthesis and characterization of a smart contrast agent sensitive to calcium. Chemical Communications, 2008, , 3444.	2.2	56
157	Where Are the Human Speech and Voice Regions, and Do Other Animals Have Anything Like Them?. Neuroscientist, 2009, 15, 419-429.	2.6	56
158	Dopamine-Induced Dissociation of BOLD and Neural Activity in Macaque Visual Cortex. Current Biology, 2014, 24, 2805-2811.	1.8	55
159	Neural and BOLD responses across the brain. Wiley Interdisciplinary Reviews: Cognitive Science, 2012, 3, 75-86.	1.4	54
160	Visibility states modulate microsaccade rate and direction. Vision Research, 2009, 49, 228-236.	0.7	52
161	Calcium-responsive paramagnetic CEST agents. Bioorganic and Medicinal Chemistry, 2011, 19, 1097-1105.	1.4	52
162	Combined passive and active shimming for in vivo MR spectroscopy at high magnetic fields. Journal of Magnetic Resonance, 2006, 183, 278-289.	1.2	51

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163	Monkey drumming reveals common networks for perceiving vocal and nonvocal communication sounds. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 18010-18015.	3.3	51
164	Spatial Patterns of Spontaneous Local Field Activity in the Monkey Visual Cortex. Reviews in the Neurosciences, 2003, 14, 195-205.	1.4	50
165	Electric stimulation fMRI of the perforant pathway to the rat hippocampus. Magnetic Resonance Imaging, 2008, 26, 978-986.	1.0	50
166	The Role of the Primary Visual Cortex in Perceptual Suppression of Salient Visual Stimuli. Journal of Neuroscience, 2010, 30, 12353-12365.	1.7	50
167	Spatial representations of temporal and spectral sound cues in human auditory cortex. Cortex, 2013, 49, 2822-2833.	1.1	50
168	Long-Term Stability of Visual Pattern Selective Responses of Monkey Temporal Lobe Neurons. PLoS ONE, 2009, 4, e8222.	1.1	48
169	Stimulus Dependence of Local Field Potential Spectra: Experiment versus Theory. Journal of Neuroscience, 2014, 34, 14589-14605.	1.7	48
170	Widespread and Opponent fMRI Signals Represent Sound Location in Macaque Auditory Cortex. Neuron, 2017, 93, 971-983.e4.	3.8	48
171	Behavioral, electrophysiological and histopathological consequences of systemic manganese administration in MEMRI. Magnetic Resonance Imaging, 2010, 28, 1165-1174.	1.0	47
172	Natural asynchronies in audiovisual communication signals regulate neuronal multisensory interactions in voice-sensitive cortex. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 273-278.	3.3	47
173	Vision: A Window on Consciousness. Scientific American, 1999, 281, 68-75.	1.0	46
174	Fixations in natural scenes: Interaction of image structure and image content. Vision Research, 2006, 46, 2535-2545.	0.7	46
175	Neurons with Stereotyped and Rapid Responses Provide a Reference Frame for Relative Temporal Coding in Primate Auditory Cortex. Journal of Neuroscience, 2012, 32, 2998-3008.	1.7	46
176	Direct measurement of oxygen extraction with fMRI using 6% CO2 inhalation. Magnetic Resonance Imaging, 2008, 26, 961-967.	1.0	45
177	Coupling of neural activity and fMRI-BOLD in the motion area MT. Magnetic Resonance Imaging, 2010, 28, 1087-1094.	1.0	45
178	A novel test to determine the significance of neural selectivity to single and multiple potentially correlated stimulus features. Journal of Neuroscience Methods, 2012, 210, 49-65.	1.3	44
179	Dualâ€Frequency Calciumâ€Responsive MRI Agents. Chemistry - A European Journal, 2014, 20, 7351-7362.	1.7	44
180	Mapping optogenetically-driven single-vessel fMRI with concurrent neuronal calcium recordings in the rat hippocampus. Nature Communications, 2019, 10, 5239.	5.8	44

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181	Noradrenergic ensemble-based modulation of cognition over multiple timescales. Brain Research, 2019, 1709, 50-66.	1.1	44
182	Critical In Vitro Evaluation of Responsive MRI Contrast Agents for Calcium and Zinc. Chemistry - A European Journal, 2011, 17, 1529-1537.	1.7	43
183	Saccades during Object Viewing Modulate Oscillatory Phase in the Superior Temporal Sulcus. Journal of Neuroscience, 2011, 31, 18423-18432.	1.7	43
184	MRI Sensing of Neurotransmitters with a Crown Ether Appended Gd³⁺ Complex. ACS Chemical Neuroscience, 2015, 6, 219-225.	1.7	43
185	The Subcortical Atlas of the Rhesus Macaque (SARM) for neuroimaging. NeuroImage, 2021, 235, 117996.	2.1	43
186	Locus coeruleus phasic discharge is essential for stimulus-induced gamma oscillations in the prefrontal cortex. Journal of Neurophysiology, 2018, 119, 904-920.	0.9	42
187	Estimating average single-neuron visual receptive field sizes by fMRI. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 6425-6434.	3.3	42
188	The Effect of Labeling Parameters on Perfusion-Based fMRI in Nonhuman Primates. Journal of Cerebral Blood Flow and Metabolism, 2008, 28, 640-652.	2.4	40
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