Nikos K Logothetis

List of Publications by Citations

349 papers	39,302 citations	92 h-index	193 g-index
366 ext. papers	44,718 ext. citations	8.7 avg, IF	7.83 L-index

#	Paper	IF	Citations
349	Neurophysiological investigation of the basis of the fMRI signal. *Nature*, **2001**, 412, 150-7	50.4	4798
348	What we can do and what we cannot do with fMRI. *Nature*, **2008**, 453, 869-78	50.4	2317
347	Interpreting the BOLD signal. *Annual Review of Physiology*, **2004**, 66, 735-69	23.1	1163
346	Visual competition. *Nature Reviews Neuroscience*, **2002**, 3, 13-21	13.5	1143
345	Multistable phenomena: changing views in perception. *Trends in Cognitive Sciences*, **1999**, 3, 254-264	14	886
344	Activity changes in early visual cortex reflect monkeysPpercepts during binocular rivalry. *Nature*, **1996**, 379, 549-53	50.4	799
343	Shape representation in the inferior temporal cortex of monkeys. *Current Biology*, **1995**, 5, 552-63	6.3	769
342	The underpinnings of the BOLD functional magnetic resonance imaging signal. *Journal of Neuroscience*, **2003**, 23, 3963-71	6.6	733
341	Negative functional MRI response correlates with decreases in neuronal activity in monkey visual area V1. *Nature Neuroscience*, **2006**, 9, 569-77	25.5	721
340	The neural basis of the blood-oxygen-level-dependent functional magnetic resonance imaging signal. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2002**, 357, 1003-37	5.8	642
339	Very slow activity fluctuations in monkey visual cortex: implications for functional brain imaging. *Cerebral Cortex*, **2003**, 13, 422-33	5.1	512
338	What is rivalling during binocular rivalry?. *Nature*, **1996**, 380, 621-4	50.4	512
337	Modelling and analysis of local field potentials for studying the function of cortical circuits. *Nature Reviews Neuroscience*, **2013**, 14, 770-85	13.5	471
336	Scaling brain size, keeping timing: evolutionary preservation of brain rhythms. *Neuron*, **2013**, 80, 751-64	13.9	458
335	Decorrelated neuronal firing in cortical microcircuits. *Science*, **2010**, 327, 584-7	33.3	457
334	Multisensory integration of dynamic faces and voices in rhesus monkey auditory cortex. *Journal of Neuroscience*, **2005**, 25, 5004-12	6.6	452
333	Neurophysiology of the BOLD fMRI signal in awake monkeys. *Current Biology*, **2008**, 18, 631-40	6.3	443

332	Functional imaging of the monkey brain. *Nature Neuroscience*, **1999**, 2, 555-62	25.5	443
331	Visual categorization shapes feature selectivity in the primate temporal cortex. *Nature*, **2002**, 415, 318-20	50.4	440
330	Visual modulation of neurons in auditory cortex. *Cerebral Cortex*, **2008**, 18, 1560-74	5.1	400
329	Functions of the colour-opponent and broad-band channels of the visual system. *Nature*, **1990**, 343, 68-70	50.4	389
328	Spike-phase coding boosts and stabilizes information carried by spatial and temporal spike patterns. *Neuron*, **2009**, 61, 597-608	13.9	360
327	Sensory neural codes using multiplexed temporal scales. *Trends in Neurosciences*, **2010**, 33, 111-20	13.3	338
326	In vivo measurement of cortical impedance spectrum in monkeys: implications for signal propagation. *Neuron*, **2007**, 55, 809-23	13.9	324
325	Phase-of-firing coding of natural visual stimuli in primary visual cortex. *Current Biology*, **2008**, 18, 375-80	6.3	306
324	Low-frequency local field potentials and spikes in primary visual cortex convey independent visual information. *Journal of Neuroscience*, **2008**, 28, 5696-709	6.6	305
323	Phase locking of single neuron activity to theta oscillations during working memory in monkey extrastriate visual cortex. *Neuron*, **2005**, 45, 147-56	13.9	300
322	Stable perception of visually ambiguous patterns. *Nature Neuroscience*, **2002**, 5, 605-9	25.5	300
321	Integration of touch and sound in auditory cortex. *Neuron*, **2005**, 48, 373-84	13.9	294
320	On the nature of the BOLD fMRI contrast mechanism. *Magnetic Resonance Imaging*, **2004**, 22, 1517-31	3.3	289
319	Role of the color-opponent and broad-band channels in vision. *Visual Neuroscience*, **1990**, 5, 321-46	1.7	287
318	A voice region in the monkey brain. *Nature Neuroscience*, **2008**, 11, 367-74	25.5	263
317	Hippocampal-cortical interaction during periods of subcortical silence. *Nature*, **2012**, 491, 547-53	50.4	256
316	Frequency-band coupling in surface EEG reflects spiking activity in monkey visual cortex. *Neuron*, **2009**, 64, 281-9	13.9	255
315	Vocal-tract resonances as indexical cues in rhesus monkeys. *Current Biology*, **2007**, 17, 425-30	6.3	249

314	The amplitude and timing of the BOLD signal reflects the relationship between local field potential power at different frequencies. *Journal of Neuroscience*, **2012**, 32, 1395-407	6.6	247
313	Integration of local features into global shapes: monkey and human FMRI studies. *Neuron*, **2003**, 37, 333-46	15.9	238
312	The effects of electrical microstimulation on cortical signal propagation. *Nature Neuroscience*, **2010**, 13, 1283-91	25.5	235
311	Direct electrical stimulation of human cortex - the gold standard for mapping brain functions?. *Nature Reviews Neuroscience*, **2011**, 13, 63-70	13.5	232
310	The color-opponent and broad-band channels of the primate visual system. *Trends in Neurosciences*, **1990**, 13, 392-8	13.3	228
309	Robust detection of ocular dominance columns in humans using Hahn Spin Echo BOLD functional MRI at 7 Tesla. *NeuroImage*, **2007**, 37, 1161-77	7.9	223
308	Theta coupling between V4 and prefrontal cortex predicts visual short-term memory performance. *Nature Neuroscience*, **2012**, 15, 456-62, S1-2	25.5	219
307	Facial-expression and gaze-selective responses in the monkey amygdala. *Current Biology*, **2007**, 17, 766-72	8.3	209
306	Do early sensory cortices integrate cross-modal information?. *Brain Structure and Function*, **2007**, 212, 121-32	4	204
305	Spatio-temporal point-spread function of fMRI signal in human gray matter at 7 Tesla. *NeuroImage*, **2007**, 35, 539-52	7.9	200
304	High-resolution fMRI reveals laminar differences in neurovascular coupling between positive and negative BOLD responses. *Neuron*, **2012**, 76, 629-39	13.9	197
303	Interactions between the superior temporal sulcus and auditory cortex mediate dynamic face/voice integration in rhesus monkeys. *Journal of Neuroscience*, **2008**, 28, 4457-69	6.6	197
302	Functional imaging reveals visual modulation of specific fields in auditory cortex. *Journal of Neuroscience*, **2007**, 27, 1824-35	6.6	196
301	Magnetic resonance imaging of neuronal connections in the macaque monkey. *Neuron*, **2002**, 34, 685-700	13.9	196
300	Mapping cortical activity elicited with electrical microstimulation using FMRI in the macaque. *Neuron*, **2005**, 48, 901-11	13.9	195
299	Noticing familiar objects in real world scenes: the role of temporal cortical neurons in natural vision. *Journal of Neuroscience*, **2001**, 21, 1340-50	6.6	191
298	Encoding of naturalistic stimuli by local field potential spectra in networks of excitatory and inhibitory neurons. *PLoS Computational Biology*, **2008**, 4, e1000239	5	187
297	Mechanisms for allocating auditory attention: an auditory saliency map. *Current Biology*, **2005**, 15, 1943-7	8.3	186

296	Microsaccades differentially modulate neural activity in the striate and extrastriate visual cortex. *Experimental Brain Research*, **1998**, 123, 341-5	2.3	183
295	Neuroperception: facial expressions linked to monkey calls. *Nature*, **2003**, 423, 937-8	50.4	183
294	The microvascular system of the striate and extrastriate visual cortex of the macaque. *Cerebral Cortex*, **2008**, 18, 2318-30	5.1	181
293	Functional imaging reveals numerous fields in the monkey auditory cortex. *PLoS Biology*, **2006**, 4, e215	9.7	173
292	Distribution of axon diameters in cortical white matter: an electron-microscopic study on three human brains and a macaque. *Biological Cybernetics*, **2014**, 108, 541-57	2.8	168
291	Visual areas in macaque cortex measured using functional magnetic resonance imaging. *Journal of Neuroscience*, **2002**, 22, 10416-26	6.6	163
290	Lack of long-term cortical reorganization after macaque retinal lesions. *Nature*, **2005**, 435, 300-7	50.4	162
289	Inferring spike trains from local field potentials. *Journal of Neurophysiology*, **2008**, 99, 1461-76	3.2	160
288	A toolbox for the fast information analysis of multiple-site LFP, EEG and spike train recordings. *BMC Neuroscience*, **2009**, 10, 81	3.2	155
287	Neuronal discharges and gamma oscillations explicitly reflect visual consciousness in the lateral prefrontal cortex. *Neuron*, **2012**, 74, 924-35	13.9	152
286	Attention but not awareness modulates the BOLD signal in the human V1 during binocular suppression. *Science*, **2011**, 334, 829-31	33.3	152
285	Monkeys match the number of voices they hear to the number of faces they see. *Current Biology*, **2005**, 15, 1034-8	6.3	151
284	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, 17507-12	11.5	148
283	Laminar specificity in monkey V1 using high-resolution SE-fMRI. *Magnetic Resonance Imaging*, **2006**, 24, 381-92	3.3	144
282	Three-dimensional shape representation in monkey cortex. *Neuron*, **2002**, 33, 635-52	13.9	144
281	Visual enhancement of the information representation in auditory cortex. *Current Biology*, **2010**, 20, 19-24	9.3	141
280	Von Economo neurons in the anterior insula of the macaque monkey. *Neuron*, **2012**, 74, 482-9	13.9	140
279	Voice cells in the primate temporal lobe. *Current Biology*, **2011**, 21, 1408-15	6.3	139

278	Ultra high-resolution fMRI in monkeys with implanted RF coils. *Neuron*, **2002**, 35, 227-42	13.9	137
277	Multisensory integration of looming signals by rhesus monkeys. *Neuron*, **2004**, 43, 177-81	13.9	134
276	Metabolic and hemodynamic events after changes in neuronal activity: current hypotheses, theoretical predictions and in vivo NMR experimental findings. *Journal of Cerebral Blood Flow and Metabolism*, **2009**, 29, 441-63	7.3	126
275	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, 6759-64	11.5	124
274	Recording chronically from the same neurons in awake, behaving primates. *Journal of Neurophysiology*, **2007**, 98, 3780-90	3.2	122
273	Improvement of visual contrast detection by a simultaneous sound. *Brain Research*, **2007**, 1173, 102-9	3.7	121
272	The coding of color, motion, and their conjunction in the human visual cortex. *Current Biology*, **2009** , 19, 177-83	6.3	117
271	fMRI and its interpretations: an illustration on directional selectivity in area V5/MT. *Trends in Neurosciences*, **2008**, 31, 444-53	13.3	116
270	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	3.5	104
269	fMRI of the face-processing network in the ventral temporal lobe of awake and anesthetized macaques. *Neuron*, **2011**, 70, 352-62	13.9	103
268	Coding and binding of color and form in visual cortex. *Cerebral Cortex*, **2010**, 20, 1946-54	5.1	103
267	EEG phase patterns reflect the selectivity of neural firing. *Cerebral Cortex*, **2013**, 23, 389-98	5.1	102
266	How not to study spontaneous activity. *NeuroImage*, **2009**, 45, 1080-9	7.9	102
265	Auditory looming perception in rhesus monkeys. *Proceedings of the National Academy of Sciences of the United States of America*, **2002**, 99, 15755-7	11.5	102
264	Neurons in macaque area V4 acquire directional tuning after adaptation to motion stimuli. *Nature Neuroscience*, **2005**, 8, 591-3	25.5	101
263	An auditory region in the primate insular cortex responding preferentially to vocal communication sounds. *Journal of Neuroscience*, **2009**, 29, 1034-45	6.6	100
262	Humans and macaques employ similar face-processing strategies. *Current Biology*, **2009**, 19, 509-13	6.3	95
261	Feature selectivity of the gamma-band of the local field potential in primate primary visual cortex. *Frontiers in Neuroscience*, **2008**, 2, 199-207	5.1	95

260	Millisecond encoding precision of auditory cortex neurons. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 16976-81	11.5	93
259	Perception of temporally interleaved ambiguous patterns. *Current Biology*, **2003**, 13, 1076-85	6.3	93
258	Is face recognition not so unique after all?. *Cognitive Neuropsychology*, **2000**, 17, 125-42	2.3	93
257	Generalized flash suppression of salient visual targets. *Neuron*, **2003**, 39, 1043-52	13.9	92
256	The effect of learning on the function of monkey extrastriate visual cortex. *PLoS Biology*, **2004**, 2, E44	9.7	91
255	Unimodal responses prevail within the multisensory claustrum. *Journal of Neuroscience*, **2010**, 30, 12902-7	6.6	89
254	Disrupting parietal function prolongs dominance durations in binocular rivalry. *Current Biology*, **2010**, 20, 2106-11	6.3	89
253	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, 9639-45	6.6	88
252	Motion processing in the macaque: revisited with functional magnetic resonance imaging. *Journal of Neuroscience*, **2001**, 21, 8594-601	6.6	86
251	Functional MRI evidence for LTP-induced neural network reorganization. *Current Biology*, **2009**, 19, 398-403	6.3	85
250	Spatial organization of multisensory responses in temporal association cortex. *Journal of Neuroscience*, **2009**, 29, 11924-32	6.6	84
249	Validation of High-Resolution Tractography Against In Vivo Tracing in the Macaque Visual Cortex. *Cerebral Cortex*, **2015**, 25, 4299-309	5.1	83
248	Nonmonotonic noise tuning of BOLD fMRI signal to natural images in the visual cortex of the anesthetized monkey. *Current Biology*, **2001**, 11, 846-54	6.3	79
247	Understanding the relationships between spike rate and delta/gamma frequency bands of LFPs and EEGs using a local cortical network model. *NeuroImage*, **2010**, 52, 956-72	7.9	78
246	Capillary hydrophilic interaction chromatography/mass spectrometry for simultaneous determination of multiple neurotransmitters in primate cerebral cortex. *Rapid Communications in Mass Spectrometry*, **2007**, 21, 3621-8	2.2	76
245	Smart magnetic resonance imaging agents that sense extracellular calcium fluctuations. *ChemBioChem*, **2008**, 9, 1729-34	3.8	76
244	Anatomical and functional MR imaging in the macaque monkey using a vertical large-bore 7 Tesla setup. *Magnetic Resonance Imaging*, **2004**, 22, 1343-59	3.3	76
243	The duration of 3-d form analysis in transformational apparent motion. *Perception & Psychophysics*, **2002**, 64, 244-65		76

242	Multisensory interactions in primate auditory cortex: fMRI and electrophysiology. *Hearing Research*, **2009**, 258, 80-8	3.9	74
241	MR imaging in the non-human primate: studies of function and of dynamic connectivity. *Current Opinion in Neurobiology*, **2003**, 13, 630-42	7.6	74
240	fMRI at High Spatial Resolution: Implications for BOLD-Models. *Frontiers in Computational Neuroscience*, **2016**, 10, 66	3.5	74
239	Tracing neural circuits in vivo with Mn-enhanced MRI. *Magnetic Resonance Imaging*, **2006**, 24, 349-58	3.3	70
238	Whole-Brain Multimodal Neuroimaging Model Using Serotonin Receptor Maps Explains Non-linear Functional Effects of LSD. *Current Biology*, **2018**, 28, 3065-3074.e6	6.3	69
237	Modular architectonic organization of the insula in the macaque monkey. *Journal of Comparative Neurology*, **2014**, 522, 64-97	3.4	68
236	Visually driven activation in macaque areas V2 and V3 without input from the primary visual cortex. *PLoS ONE*, **2009**, 4, e5527	3.7	68
235	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	11.5	67
234	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, 2570-88	3.2	67
233	Directed Interactions Between Auditory and Superior Temporal Cortices and their Role in Sensory Integration. *Frontiers in Integrative Neuroscience*, **2009**, 3, 7	3.2	67
232	A new class of Gd-based DO3A-ethylamine-derived targeted contrast agents for MR and optical imaging. *Bioconjugate Chemistry*, **2006**, 17, 773-80	6.3	66
231	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	11.5	65
230	Magnetic resonance imaging of cortical connectivity in vivo. *NeuroImage*, **2008**, 40, 458-472	7.9	65
229	Spatial specificity of BOLD versus cerebral blood volume fMRI for mapping cortical organization. *Journal of Cerebral Blood Flow and Metabolism*, **2007**, 27, 1248-61	7.3	65
228	Facile synthesis and relaxation properties of novel bispolyazamacrocyclic Gd3+ complexes: an attempt towards calcium-sensitive MRI contrast agents. *Inorganic Chemistry*, **2008**, 47, 1370-81	5.1	62
227	The Locus Coeruleus Is a Complex and Differentiated Neuromodulatory System. *Neuron*, **2018**, 99, 1055-1068.e6	13.9	61
226	Cell-Targeted Optogenetics and Electrical Microstimulation Reveal the Primate Koniocellular Projection to Supra-granular Visual Cortex. *Neuron*, **2016**, 90, 143-51	13.9	60
225	Temporal kernel CCA and its application in multimodal neuronal data analysis. *Machine Learning*, **2010**, 79, 5-27	4	60

224	Single-trial evoked potential estimation using wavelets. *Computers in Biology and Medicine*, **2007**, 37, 463-73	7	59
223	Relationship between neural and hemodynamic signals during spontaneous activity studied with temporal kernel CCA. *Magnetic Resonance Imaging*, **2010**, 28, 1095-103	3.3	58
222	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*, **2008**, 13, 35-46	3.7	58
221	Individuation and holistic processing of faces in rhesus monkeys. *Proceedings of the Royal Society B: Biological Sciences*, **2007**, 274, 2069-76	4.4	58
220	Hippocampal Sharp-Wave Ripples Influence Selective Activation of the Default Mode Network. *Current Biology*, **2016**, 26, 686-91	6.3	58
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218	Diversity of sharp-wave-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	11.5	56
217	Shifts of Gamma Phase across Primary Visual Cortical Sites Reflect Dynamic Stimulus-Modulated Information Transfer. *PLoS Biology*, **2015**, 13, e1002257	9.7	56
216	Sensory information in local field potentials and spikes from visual and auditory cortices: time scales and frequency bands. *Journal of Computational Neuroscience*, **2010**, 29, 533-45	1.4	55
215	fMRI measurements of color in macaque and human. *Journal of Vision*, **2008**, 8, 6.1-19	0.4	55
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213	From neurons to circuits: linear estimation of local field potentials. *Journal of Neuroscience*, **2009**, 29, 13785-96	6.6	54
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211	Comparison of pattern recognition methods in classifying high-resolution BOLD signals obtained at high magnetic field in monkeys. *Magnetic Resonance Imaging*, **2008**, 26, 1007-14	3.3	54
210	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, 12834-9	11.5	52
209	Tuning to sound frequency in auditory field potentials. *Journal of Neurophysiology*, **2007**, 98, 1806-9	3.2	52
208	Parallel pathways in the visual system: their role in perception at isoluminance. *Neuropsychologia*, **1991**, 29, 433-41	3.2	52
207	Occipital White Matter Tracts in Human and Macaque. *Cerebral Cortex*, **2017**, 27, 3346-3359	5.1	51

206	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	11.5	51
205	Calcium-responsive paramagnetic CEST agents. *Bioorganic and Medicinal Chemistry*, **2011**, 19, 1097-105	3.4	51
204	Synthesis and characterization of a smart contrast agent sensitive to calcium. *Chemical Communications*, **2008**, 3444-6	5.8	51
203	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	4.4	51
202	Binocular motion rivalry in macaque monkeys: eye dominance and tracking eye movements. *Vision Research*, **1990**, 30, 1409-19	2.1	51
201	A new method for estimating population receptive field topography in visual cortex. *NeuroImage*, **2013**, 81, 144-157	7.9	50
200	Causal relationships between frequency bands of extracellular signals in visual cortex revealed by an information theoretic analysis. *Journal of Computational Neuroscience*, **2010**, 29, 547-66	1.4	48
199	Electric stimulation fMRI of the perforant pathway to the rat hippocampus. *Magnetic Resonance Imaging*, **2008**, 26, 978-86	3.3	48
198	Who is That? Brain Networks and Mechanisms for Identifying Individuals. *Trends in Cognitive Sciences*, **2015**, 19, 783-796	14	47
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195	Spatial patterns of spontaneous local field activity in the monkey visual cortex. *Reviews in the Neurosciences*, **2003**, 14, 195-205	4.7	47
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190	A role of the claustrum in auditory scene analysis by reflecting sensory change. *Frontiers in Systems Neuroscience*, **2014**, 8, 44	3.5	44
189	Auditory and visual modulation of temporal lobe neurons in voice-sensitive and association cortices. *Journal of Neuroscience*, **2014**, 34, 2524-37	6.6	44

188	The role of the primary visual cortex in perceptual suppression of salient visual stimuli. *Journal of Neuroscience*, **2010**, 30, 12353-65	6.6	44
187	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, 18010-5	11.5	44
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185	Dopamine-induced dissociation of BOLD and neural activity in macaque visual cortex. *Current Biology*, **2014**, 24, 2805-11	6.3	42
184	Critical in vitro evaluation of responsive MRI contrast agents for calcium and zinc. *Chemistry - A European Journal*, **2011**, 17, 1529-37	4.8	42
183	Spatial representations of temporal and spectral sound cues in human auditory cortex. *Cortex*, **2013**, 49, 2822-33	3.8	40
182	Long-term stability of visual pattern selective responses of monkey temporal lobe neurons. *PLoS ONE*, **2009**, 4, e8222	3.7	39
181	Fixations in natural scenes: interaction of image structure and image content. *Vision Research*, **2006**, 46, 2535-45	2.1	38
180	Ultrasmall Nanoplatforms as Calcium-Responsive Contrast Agents for Magnetic Resonance Imaging. *Small*, **2015**, 11, 4900-9	11	37
179	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	6.6	37
178	Coupling of neural activity and fMRI-BOLD in the motion area MT. *Magnetic Resonance Imaging*, **2010**, 28, 1087-94	3.3	37
177	Ripple-triggered stimulation of the locus coeruleus during post-learning sleep disrupts ripple/spindle coupling and impairs memory consolidation. *Learning and Memory*, **2016**, 23, 238-48	2.8	37
176	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, 273-8	11.5	35
175	Dual-frequency calcium-responsive MRI agents. *Chemistry - A European Journal*, **2014**, 20, 7351-62	4.8	35
174	Robust controlled functional MRI in alert monkeys at high magnetic field: effects of jaw and body movements. *NeuroImage*, **2007**, 36, 550-70	7.9	35
173	Widespread and Opponent fMRI Signals Represent Sound Location in Macaque Auditory Cortex. *Neuron*, **2017**, 93, 971-983.e4	13.9	34
172	MRI sensing of neurotransmitters with a crown ether appended Gd(3+) complex. *ACS Chemical Neuroscience*, **2015**, 6, 219-25	5.7	34
171	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	3	34

170	The effect of labeling parameters on perfusion-based fMRI in nonhuman primates. *Journal of Cerebral Blood Flow and Metabolism*, **2008**, 28, 640-52	7.3	34
169	Bold claims for optogenetics. *Nature*, **2010**, 468, E3-4; discussion E4-5	50.4	33
168	A smart (19) F and (1) H MRI probe with self-immolative linker as a versatile tool for detection of enzymes. *Contrast Media and Molecular Imaging*, **2012**, 7, 478-83	3.2	32
167	Vascularization of cytochrome oxidase-rich blobs in the primary visual cortex of squirrel and macaque monkeys. *Journal of Neuroscience*, **2011**, 31, 1246-53	6.6	32
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164	Simultaneous recording of neuronal signals and functional NMR imaging. *Magnetic Resonance Imaging*, **2007**, 25, 760-74	3.3	32
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159	High-field localized 1H NMR spectroscopy in the anesthetized and in the awake monkey. *Magnetic Resonance Imaging*, **2004**, 22, 1361-72	3.3	30
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157	Saccades during object viewing modulate oscillatory phase in the superior temporal sulcus. *Journal of Neuroscience*, **2011**, 31, 18423-32	6.6	29
156	fMRI of the temporal lobe of the awake monkey at 7 T. *NeuroImage*, **2008**, 39, 1081-93	7.9	29
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