

Nikos K Logothetis

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Macaque Area V2/V3 Reorganization Following Homonymous Retinal Lesions.. <i>Frontiers in Neuroscience</i> , 2022 , 16, 757091	5.1	1
348	Decoding internally generated transitions of conscious contents in the prefrontal cortex without subjective reports.. <i>Nature Communications</i> , 2022 , 13, 1535	17.4	1
347	Distinct ensembles in the noradrenergic locus coeruleus are associated with diverse cortical states.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022 , 119, e2116507119	11.5	2
346	Local Field Potential, Relationship to BOLD Signal 2022 , 1852-1860		
345	Synchronous spiking associated with prefrontal high frequency oscillations evokes a 5-Hz rhythmic modulation of spiking in locus coeruleus. <i>Journal of Neurophysiology</i> , 2021 , 125, 1191-1201	3.2	8
344	Intensive longitudinal characterization of multidimensional biobehavioral dynamics in laboratory rats. <i>Cell Reports</i> , 2021 , 35, 108987	10.6	2
343	From Univariate to Multivariate Coupling Between Continuous Signals and Point Processes: A Mathematical Framework. <i>Neural Computation</i> , 2021 , 33, 1751-1817	2.9	0
342	Neurochemical underpinning of hemodynamic response to neuropsychiatric drugs: A meta- and cluster analysis of preclinical studies. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2021 , 41, 874-885	7.3	2
341	Coupling of hippocampal theta and ripples with pontogeniculooccipital waves. <i>Nature</i> , 2021 , 589, 96-102	30.4	9
340	Phasic activation of the locus coeruleus attenuates the acoustic startle response by increasing cortical arousal. <i>Scientific Reports</i> , 2021 , 11, 1409	4.9	2
339	The Subcortical Atlas of the Rhesus Macaque (SARM) for neuroimaging. <i>NeuroImage</i> , 2021 , 235, 117996	7.9	5
338	Modulation of Prefrontal Cortex Slow Oscillations by Phasic Activation of the Locus Coeruleus. <i>Neuroscience</i> , 2021 , 453, 268-279	3.9	5
337	Reply to Poepl et al.: Controlling for false positive rates is critical for accurate and consistent interpretation of findings. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 11206	11.5	
336	Computational neuroscience: a frontier of the 21 century. <i>National Science Review</i> , 2020 , 7, 1418-1422	10.8	2
335	Perspective-Taking in Blindness: An Event-Related Brain Potentials Study With the Continuous Wavelet Transform. <i>IEEE Access</i> , 2020 , 8, 76657-76670	3.5	2
334	Dynamic coupling of whole-brain neuronal and neurotransmitter systems. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 9566-9576	11.5	67
333	The Electrophysiological Background of the fMRI Signal 2020 , 15-27		

332	Awakening: Predicting external stimulation to force transitions between different brain states. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 18088-18097	11.5	65
331	Early detection and monitoring of cerebral ischemia using calcium-responsive MRI probes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 20666-20671	11.5	23
330	Toward MRI and Optical Detection of Zwitterionic Neurotransmitters: Near-Infrared Luminescent and Magnetic Properties of Macrocyclic Lanthanide(III) Complexes Appended with a Crown Ether and a Benzophenone Chromophore. <i>Inorganic Chemistry</i> , 2019 , 58, 13619-13630	5.1	8
329	Scene Regularity Interacts With Individual Biases to Modulate Perceptual Stability. <i>Frontiers in Neuroscience</i> , 2019 , 13, 523	5.1	5
328	Responses of Neurons in Lateral Intraparietal Area Depend on Stimulus-Associated Reward During Binocular Flash Suppression. <i>Frontiers in Systems Neuroscience</i> , 2019 , 13, 9	3.5	1
327	Estimating average single-neuron visual receptive field sizes by fMRI. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 6425-6434	11.5	22
326	Neural substrates of sexual arousal are not sex dependent. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 15671-15676	11.5	17
325	Mapping optogenetically-driven single-vessel fMRI with concurrent neuronal calcium recordings in the rat hippocampus. <i>Nature Communications</i> , 2019 , 10, 5239	17.4	23
324	Noradrenergic ensemble-based modulation of cognition over multiple timescales. <i>Brain Research</i> , 2019 , 1709, 50-66	3.7	18
323	Occurrence of Hippocampal Ripples is Associated with Activity Suppression in the Mediodorsal Thalamic Nucleus. <i>Journal of Neuroscience</i> , 2019 , 39, 434-444	6.6	15
322	Organization of area hV5/MT+ in subjects with homonymous visual field defects. <i>NeuroImage</i> , 2019 , 190, 254-268	7.9	7
321	The activity of thalamic nucleus reuniens is critical for memory retrieval, but not essential for the early phase of "off-line" consolidation. <i>Learning and Memory</i> , 2018 , 25, 129-137	2.8	14
320	Dopamine Is Signaled by Mid-frequency Oscillations and Boosts Output Layers Visual Information in Visual Cortex. <i>Current Biology</i> , 2018 , 28, 224-235.e5	6.3	14
319	Nonmonotonic spatial structure of interneuronal correlations in prefrontal microcircuits. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, E3539-E3548	11.5	6
318	Locus coeruleus phasic discharge is essential for stimulus-induced gamma oscillations in the prefrontal cortex. <i>Journal of Neurophysiology</i> , 2018 , 119, 904-920	3.2	24
317	The Locus Coeruleus Is a Complex and Differentiated Neuromodulatory System. <i>Neuron</i> , 2018 , 99, 1055-1068.e61	19.6	61
316	Parallel and functionally segregated processing of task phase and conscious content in the prefrontal cortex. <i>Communications Biology</i> , 2018 , 1, 215	6.7	8
315	Systemic neurotransmitter responses to clinically approved and experimental neuropsychiatric drugs. <i>Nature Communications</i> , 2018 , 9, 4699	17.4	7

314	Two distinct profiles of fMRI and neurophysiological activity elicited by acetylcholine in visual cortex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, E12073-E12082	11.5	8
313	Whole-Brain Multimodal Neuroimaging Model Using Serotonin Receptor Maps Explains Non-linear Functional Effects of LSD. <i>Current Biology</i> , 2018 , 28, 3065-3074.e6	6.3	69
312	Dissecting the Synapse- and Frequency-Dependent Network Mechanisms of In Vivo Hippocampal Sharp Wave-Ripples. <i>Neuron</i> , 2018 , 100, 1224-1240.e13	13.9	14
311	Widespread and Opponent fMRI Signals Represent Sound Location in Macaque Auditory Cortex. <i>Neuron</i> , 2017 , 93, 971-983.e4	13.9	34
310	Occipital White Matter Tracts in Human and Macaque. <i>Cerebral Cortex</i> , 2017 , 27, 3346-3359	5.1	51
309	Development of visual cortical function in infant macaques: A BOLD fMRI study. <i>PLoS ONE</i> , 2017 , 12, e0187942	3.7	7
308	Pharmaco-Based fMRI and Neurophysiology in Non-Human Primates. <i>NeuroMethods</i> , 2017 , 37-66	0.4	1
307	Comparative neuroanatomy of occipital white matter tracts in human and macaque. <i>Journal of Vision</i> , 2017 , 17, 589	0.4	
306	Cell-Targeted Optogenetics and Electrical Microstimulation Reveal the Primate Koniocellular Projection to Supra-granular Visual Cortex. <i>Neuron</i> , 2016 , 90, 143-51	13.9	60
305	Innovative Design of Ca-Sensitive Paramagnetic Liposomes Results in an Unprecedented Increase in Longitudinal Relaxivity. <i>Biomacromolecules</i> , 2016 , 17, 1303-11	6.9	16
304	Discrepancies between Multi-Electrode LFP and CSD Phase-Patterns: A Forward Modeling Study. <i>Frontiers in Neural Circuits</i> , 2016 , 10, 51	3.5	13
303	fMRI at High Spatial Resolution: Implications for BOLD-Models. <i>Frontiers in Computational Neuroscience</i> , 2016 , 10, 66	3.5	74
302	Ratiometric Method for Rapid Monitoring of Biological Processes Using Bioresponsive MRI Contrast Agents. <i>ACS Sensors</i> , 2016 , 1, 483-487	9.2	19
301	Ripple-triggered stimulation of the locus coeruleus during post-learning sleep disrupts ripple/spindle coupling and impairs memory consolidation. <i>Learning and Memory</i> , 2016 , 23, 238-48	2.8	37
300	Hippocampal Sharp-Wave Ripples Influence Selective Activation of the Default Mode Network. <i>Current Biology</i> , 2016 , 26, 686-91	6.3	58
299	Natural asynchronies in audiovisual communication signals regulate neuronal multisensory interactions in voice-sensitive cortex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 273-8	11.5	35
298	Different forms of effective connectivity in primate frontotemporal pathways. <i>Nature Communications</i> , 2015 , 6, 6000	17.4	31
297	Simultaneous epidural functional near-infrared spectroscopy and cortical electrophysiology as a tool for studying local neurovascular coupling in primates. <i>NeuroImage</i> , 2015 , 120, 394-9	7.9	13

296	Gd(3+)-Based Magnetic Resonance Imaging Contrast Agent Responsive to Zn(2+). <i>Inorganic Chemistry</i> , 2015 , 54, 10342-50	5.1	26
295	Who is That? Brain Networks and Mechanisms for Identifying Individuals. <i>Trends in Cognitive Sciences</i> , 2015 , 19, 783-796	14	47
294	Atomoxetine accelerates attentional set shifting without affecting learning rate in the rat. <i>Psychopharmacology</i> , 2015 , 232, 3697-707	4.7	9
293	Diversity of sharp-wave-ripple LFP signatures reveals differentiated brain-wide dynamical events. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, E6379-87	11.5	56
292	Nonlinear population receptive field changes in human area V5/MT+ of healthy subjects with simulated visual field scotomas. <i>NeuroImage</i> , 2015 , 120, 176-90	7.9	18
291	The role of sub-second neural events in spontaneous brain activity. <i>Current Opinion in Neurobiology</i> , 2015 , 32, 24-30	7.6	12
290	Validation of High-Resolution Tractography Against In Vivo Tracing in the Macaque Visual Cortex. <i>Cerebral Cortex</i> , 2015 , 25, 4299-309	5.1	83
289	Macrocyclic Gd(3+) complexes with pendant crown ethers designed for binding zwitterionic neurotransmitters. <i>Chemistry - A European Journal</i> , 2015 , 21, 11226-37	4.8	16
288	Synthesis and Characterization of a Biotinylated Multivalent Targeted Contrast Agent. <i>ChemPlusChem</i> , 2015 , 80, 612-622	2.8	4
287	Ultrasmall Nanoplatfoms as Calcium-Responsive Contrast Agents for Magnetic Resonance Imaging. <i>Small</i> , 2015 , 11, 4900-9	11	37
286	Modeling the effect of locus coeruleus firing on cortical state dynamics and single-trial sensory processing. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 12834-9	11.5	52
285	A Potential Role of Auditory Induced Modulations in Primary Visual Cortex. <i>Multisensory Research</i> , 2015 , 28, 331-49	1.9	4
284	Neural-Event-Triggered fMRI of large-scale neural networks. <i>Current Opinion in Neurobiology</i> , 2015 , 31, 214-22	7.6	12
283	MRI sensing of neurotransmitters with a crown ether appended Gd(3+) complex. <i>ACS Chemical Neuroscience</i> , 2015 , 6, 219-25	5.7	34
282	Shifts of Gamma Phase across Primary Visual Cortical Sites Reflect Dynamic Stimulus-Modulated Information Transfer. <i>PLoS Biology</i> , 2015 , 13, e1002257	9.7	56
281	Population receptive field analysis of the primary visual cortex complements perimetry in patients with homonymous visual field defects. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, E1656-65	11.5	51
280	Dopamine-induced dissociation of BOLD and neural activity in macaque visual cortex. <i>Current Biology</i> , 2014 , 24, 2805-11	6.3	42
279	Stimulus dependence of local field potential spectra: experiment versus theory. <i>Journal of Neuroscience</i> , 2014 , 34, 14589-605	6.6	31

278	Investigation of a calcium-responsive contrast agent in cellular model systems: feasibility for use as a smart molecular probe in functional MRI. <i>ACS Chemical Neuroscience</i> , 2014 , 5, 360-9	5.7	24
277	Subjective visual perception: from local processing to emergent phenomena of brain activity. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2014 , 369, 20130534	5.8	21
276	Unilateral electrical stimulation of rat locus coeruleus elicits bilateral response of norepinephrine neurons and sustained activation of medial prefrontal cortex. <i>Journal of Neurophysiology</i> , 2014 , 111, 2570-88	3.2	67
275	Dual-frequency calcium-responsive MRI agents. <i>Chemistry - A European Journal</i> , 2014 , 20, 7351-62	4.8	35
274	A role of the claustrum in auditory scene analysis by reflecting sensory change. <i>Frontiers in Systems Neuroscience</i> , 2014 , 8, 44	3.5	44
273	Modular architectonic organization of the insula in the macaque monkey. <i>Journal of Comparative Neurology</i> , 2014 , 522, 64-97	3.4	68
272	Auditory and visual modulation of temporal lobe neurons in voice-sensitive and association cortices. <i>Journal of Neuroscience</i> , 2014 , 34, 2524-37	6.6	44
271	Diffusion properties of conventional and calcium-sensitive MRI contrast agents in the rat cerebral cortex. <i>Contrast Media and Molecular Imaging</i> , 2014 , 9, 71-82	3.2	20
270	Distribution of axon diameters in cortical white matter: an electron-microscopic study on three human brains and a macaque. <i>Biological Cybernetics</i> , 2014 , 108, 541-57	2.8	168
269	Is the frontal lobe involved in conscious perception?. <i>Frontiers in Psychology</i> , 2014 , 5, 1063	3.4	22
268	Binocular flash suppression in the primary visual cortex of anesthetized and awake macaques. <i>PLoS ONE</i> , 2014 , 9, e107628	3.7	14
267	Aryl-phosphonate lanthanide complexes and their fluorinated derivatives: investigation of their unusual relaxometric behavior and potential application as dual frequency ¹ H/ ¹⁹ F MRI probes. <i>Chemistry - A European Journal</i> , 2013 , 19, 11644-60	4.8	16
266	Multimodal contrast agents for in vivo neuroanatomical analysis of monosynaptic connections. <i>Biomaterials</i> , 2013 , 34, 7135-42	15.6	5
265	Modelling and analysis of local field potentials for studying the function of cortical circuits. <i>Nature Reviews Neuroscience</i> , 2013 , 14, 770-85	13.5	471
264	Temporal jitter of the BOLD signal reveals a reliable initial dip and improved spatial resolution. <i>Current Biology</i> , 2013 , 23, 2146-50	6.3	26
263	Multistable Visual Perception as a Gateway to the Neuronal Correlates of Phenomenal Consciousness 2013 , 119-143		3
262	Spatial representations of temporal and spectral sound cues in human auditory cortex. <i>Cortex</i> , 2013 , 49, 2822-33	3.8	40
261	Scaling brain size, keeping timing: evolutionary preservation of brain rhythms. <i>Neuron</i> , 2013 , 80, 751-64	13.9	458

260	Visual cortex organisation in a macaque monkey with macular degeneration. <i>European Journal of Neuroscience</i> , 2013 , 38, 3456-64	3.5	20
259	A new method for estimating population receptive field topography in visual cortex. <i>NeuroImage</i> , 2013 , 81, 144-157	7.9	50
258	Synthesis and characterization of pH-sensitive, biotinylated MRI contrast agents and their conjugates with avidin. <i>Organic and Biomolecular Chemistry</i> , 2013 , 11, 1294-305	3.9	17
257	Development of tube tetrodes and a multi-tetrode drive for deep structure electrophysiological recordings in the macaque brain. <i>Journal of Neuroscience Methods</i> , 2013 , 216, 43-8	3	3
256	EEG phase patterns reflect the selectivity of neural firing. <i>Cerebral Cortex</i> , 2013 , 23, 389-98	5.1	102
255	New calcium-selective smart contrast agents for magnetic resonance imaging. <i>Chemistry - A European Journal</i> , 2013 , 19, 18011-26	4.8	15
254	A common neurodynamical mechanism could mediate externally induced and intrinsically generated transitions in visual awareness. <i>PLoS ONE</i> , 2013 , 8, e53833	3.7	7
253	Desynchronization and rebound of beta oscillations during conscious and unconscious local neuronal processing in the macaque lateral prefrontal cortex. <i>Frontiers in Psychology</i> , 2013 , 4, 603	3.4	16
252	The Electrophysiological Background of the fMRI Signal 2013 , 25-36		
251	Physiological Foundations of Neural Signals 2013 , 3-14		
250	Measuring multiple neurochemicals and related metabolites in blood and brain of the rhesus monkey by using dual microdialysis sampling and capillary hydrophilic interaction chromatography-mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2012 , 402, 2545-54	4.4	13
249	Hippocampal-cortical interaction during periods of subcortical silence. <i>Nature</i> , 2012 , 491, 547-53	50.4	256
248	Magnetic-Field-Dependent ¹ H Relaxivity Behavior of Biotin/Avidin-Based Magnetic Resonance Imaging Probes. <i>ChemPlusChem</i> , 2012 , 77, 758-769	2.8	3
247	Detailed functional and structural characterization of a macular lesion in a rhesus macaque. <i>Documenta Ophthalmologica</i> , 2012 , 125, 179-94	2.2	10
246	Synthesis and in vitro evaluation of a biotinylated dextran-derived probe for molecular imaging. <i>ACS Chemical Neuroscience</i> , 2012 , 3, 268-73	5.7	2
245	Human areas V3A and V6 compensate for self-induced planar visual motion. <i>Neuron</i> , 2012 , 73, 1228-40	13.9	47
244	Von Economo neurons in the anterior insula of the macaque monkey. <i>Neuron</i> , 2012 , 74, 482-9	13.9	140
243	Neuronal discharges and gamma oscillations explicitly reflect visual consciousness in the lateral prefrontal cortex. <i>Neuron</i> , 2012 , 74, 924-35	13.9	152

242	Optimal band separation of extracellular field potentials. <i>Journal of Neuroscience Methods</i> , 2012 , 210, 66-78	3	15
241	A novel test to determine the significance of neural selectivity to single and multiple potentially correlated stimulus features. <i>Journal of Neuroscience Methods</i> , 2012 , 210, 49-65	3	34
240	A smart (19) F and (1) H MRI probe with self-immolative linker as a versatile tool for detection of enzymes. <i>Contrast Media and Molecular Imaging</i> , 2012 , 7, 478-83	3.2	32
239	Tracing of noradrenergic projections using manganese-enhanced MRI. <i>NeuroImage</i> , 2012 , 59, 3252-65	7.9	20
238	Intracortical recordings and fMRI: an attempt to study operational modules and networks simultaneously. <i>NeuroImage</i> , 2012 , 62, 962-9	7.9	19
237	Effects of lactate on the early visual cortex of non-human primates, investigated by pharmaco-MRI and neurochemical analysis. <i>NeuroImage</i> , 2012 , 61, 98-105	7.9	12
236	Improved decoding of neural activity from fMRI signals using non-separable spatiotemporal deconvolutions. <i>NeuroImage</i> , 2012 , 61, 1031-42	7.9	14
235	High-resolution fMRI reveals laminar differences in neurovascular coupling between positive and negative BOLD responses. <i>Neuron</i> , 2012 , 76, 629-39	13.9	197
234	Theta coupling between V4 and prefrontal cortex predicts visual short-term memory performance. <i>Nature Neuroscience</i> , 2012 , 15, 456-62, S1-2	25.5	219
233	Color blobs in cortical areas V1 and V2 of the new world monkey <i>Callithrix jacchus</i> , revealed by non-differential optical imaging. <i>Journal of Neuroscience</i> , 2012 , 32, 7881-94	6.6	23
232	An analysis approach for high-field fMRI data from awake non-human primates. <i>PLoS ONE</i> , 2012 , 7, e29697	3.7	7
231	Neural and BOLD responses across the brain. <i>Wiley Interdisciplinary Reviews: Cognitive Science</i> , 2012 , 3, 75-86	4.5	20
230	Neurons with stereotyped and rapid responses provide a reference frame for relative temporal coding in primate auditory cortex. <i>Journal of Neuroscience</i> , 2012 , 32, 2998-3008	6.6	37
229	Category-selective phase coding in the superior temporal sulcus. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 19438-43	11.5	28
228	The amplitude and timing of the BOLD signal reflects the relationship between local field potential power at different frequencies. <i>Journal of Neuroscience</i> , 2012 , 32, 1395-407	6.6	247
227	Non-separable Spatiotemporal Brain Hemodynamics Contain Neural Information. <i>Lecture Notes in Computer Science</i> , 2012 , 140-147	0.9	1
226	Direct electrical stimulation of human cortex - the gold standard for mapping brain functions?. <i>Nature Reviews Neuroscience</i> , 2011 , 13, 63-70	13.5	232
225	Influence of calcium-induced aggregation on the sensitivity of aminobis(methylenephosphonate)-containing potential MRI contrast agents. <i>Inorganic Chemistry</i> , 2011 , 50, 6472-81	5.1	16

224	Attention but not awareness modulates the BOLD signal in the human V1 during binocular suppression. <i>Science</i> , 2011 , 334, 829-31	33.3	152
223	fMRI of the face-processing network in the ventral temporal lobe of awake and anesthetized macaques. <i>Neuron</i> , 2011 , 70, 352-62	13.9	103
222	Structure-related variable responses of calcium sensitive MRI probes. <i>Organic and Biomolecular Chemistry</i> , 2011 , 9, 5816-24	3.9	15
221	Vascularization of cytochrome oxidase-rich blobs in the primary visual cortex of squirrel and macaque monkeys. <i>Journal of Neuroscience</i> , 2011 , 31, 1246-53	6.6	32
220	Statistical comparison of spike responses to natural stimuli in monkey area V1 with simulated responses of a detailed laminar network model for a patch of V1. <i>Journal of Neurophysiology</i> , 2011 , 105, 757-78	3.2	21
219	Cholinergic control of visual categorization in macaques. <i>Frontiers in Behavioral Neuroscience</i> , 2011 , 5, 73	3.5	10
218	Cortical microcircuit dynamics mediating binocular rivalry: the role of adaptation in inhibition. <i>Frontiers in Human Neuroscience</i> , 2011 , 5, 145	3.3	15
217	Multisensory Influences on Auditory Processing. <i>Frontiers in Neuroscience</i> , 2011 , 99-114		1
216	esfMRI of the upper STS: further evidence for the lack of electrically induced polysynaptic propagation of activity in the neocortex. <i>Magnetic Resonance Imaging</i> , 2011 , 29, 1374-81	3.3	11
215	Investigating static nonlinearities in neurovascular coupling. <i>Magnetic Resonance Imaging</i> , 2011 , 29, 1358-64	3.6	12
214	Realignment strategies for awake-monkey fMRI data. <i>Magnetic Resonance Imaging</i> , 2011 , 29, 1390-400	3.3	3
213	Activation of SC during electrical stimulation of LGN: retinal antidromic stimulation or corticocollicular activation?. <i>Magnetic Resonance Imaging</i> , 2011 , 29, 1351-7	3.3	7
212	Multimodal vessel mapping for precise large area alignment of functional optical imaging data to neuroanatomical preparations in marmosets. <i>Journal of Neuroscience Methods</i> , 2011 , 201, 159-72	3	4
211	Cortical dynamics during naturalistic sensory stimulations: experiments and models. <i>Journal of Physiology (Paris)</i> , 2011 , 105, 2-15		46
210	Voice cells in the primate temporal lobe. <i>Current Biology</i> , 2011 , 21, 1408-15	6.3	139
209	Different LFP frequency bands convey complementary information about the BOLD signal. <i>BMC Neuroscience</i> , 2011 , 12,	3.2	2
208	Critical in vitro evaluation of responsive MRI contrast agents for calcium and zinc. <i>Chemistry - A European Journal</i> , 2011 , 17, 1529-37	4.8	42
207	Biocytin-derived MRI contrast agent for longitudinal brain connectivity studies. <i>ACS Chemical Neuroscience</i> , 2011 , 2, 578-87	5.7	8

206	Calcium-responsive paramagnetic CEST agents. <i>Bioorganic and Medicinal Chemistry</i> , 2011 , 19, 1097-105	3.4	51
205	A straightforward and convenient pathway for the synthesis of functional bismacrocylic ligands. <i>Tetrahedron Letters</i> , 2011 , 52, 1619-1622	2	7
204	Saccades during object viewing modulate oscillatory phase in the superior temporal sulcus. <i>Journal of Neuroscience</i> , 2011 , 31, 18423-32	6.6	29
203	Dissociable effects of natural image structure and color on LFP and spiking activity in the lateral prefrontal cortex and extrastriate visual area V4. <i>Journal of Neuroscience</i> , 2011 , 31, 10215-27	6.6	8
202	Multisensory Influences on Auditory Processing. <i>Frontiers in Neuroscience</i> , 2011 , 99-114		1
201	Second-order relational manipulations affect both humans and monkeys. <i>PLoS ONE</i> , 2011 , 6, e25793	3.7	8
200	Relationship of the BOLD signal with VEP for ultrashort duration visual stimuli (0.1 to 5 ms) in humans. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2010 , 30, 449-58	7.3	23
199	Bold claims for optogenetics. <i>Nature</i> , 2010 , 468, E3-4; discussion E4-5	50.4	33
198	The effects of electrical microstimulation on cortical signal propagation. <i>Nature Neuroscience</i> , 2010 , 13, 1283-91	25.5	235
197	Local field potentials, BOLD and spiking activity [Relationships and physiological mechanisms. <i>Nature Precedings</i> , 2010 ,		6
196	Cortical processing of vocal sounds in primates. <i>Handbook of Behavioral Neuroscience</i> , 2010 , 19, 135-147	0.7	
195	Binocular rivalry: a time dependence of eye and stimulus contributions. <i>Journal of Vision</i> , 2010 , 10, 3	0.4	20
194	Millisecond encoding precision of auditory cortex neurons. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 16976-81	11.5	93
193	The Thatcher illusion in humans and monkeys. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2010 , 277, 2973-81	4.4	27
192	The role of the primary visual cortex in perceptual suppression of salient visual stimuli. <i>Journal of Neuroscience</i> , 2010 , 30, 12353-65	6.6	44
191	Coding and binding of color and form in visual cortex. <i>Cerebral Cortex</i> , 2010 , 20, 1946-54	5.1	103
190	In vivo characterization of a smart MRI agent that displays an inverse response to calcium concentration. <i>ACS Chemical Neuroscience</i> , 2010 , 1, 819-28	5.7	24
189	Decorrelated neuronal firing in cortical microcircuits. <i>Science</i> , 2010 , 327, 584-7	33.3	457

188	Sensory neural codes using multiplexed temporal scales. <i>Trends in Neurosciences</i> , 2010 , 33, 111-20	13.3	338
187	Functional magnetic resonance imaging of awake behaving macaques. <i>Methods</i> , 2010 , 50, 178-88	4.6	27
186	Understanding the relationships between spike rate and delta/gamma frequency bands of LFPs and EEGs using a local cortical network model. <i>NeuroImage</i> , 2010 , 52, 956-72	7.9	78
185	Improved neuronal tract tracing with stable biocytin-derived neuroimaging agents. <i>ACS Chemical Neuroscience</i> , 2010 , 1, 129-38	5.7	6
184	Unimodal responses prevail within the multisensory claustrum. <i>Journal of Neuroscience</i> , 2010 , 30, 12902-6	6.6	89
183	Neurovascular Uncoupling: Much Ado about Nothing. <i>Frontiers in Neuroenergetics</i> , 2010 , 2,		27
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4	Synchronous spiking associated with high gamma oscillations in prefrontal cortex exerts top-down control over a 5Hz-rhythmic modulation of spiking in locus coeruleus	1
3	The locus coeruleus is a complex and differentiated neuromodulatory system	2
2	Decoding the contents of consciousness from prefrontal ensembles	16
1	The hemodynamic initial-dip consists of both volumetric and oxymetric changes correlated to localized spiking activity	2