Dae-Shik Kim

List of Publications by Year
in descending order

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80 papers	6,186 citations	109321 35 h-index	118850 62 g-index
81 all docs	81 docs citations	81 times ranked	7199 citing authors

#	Article	IF	Citations
1	Global and local fMRI signals driven by neurons defined optogenetically by type and wiring. Nature, 2010, 465, 788-792.	27.8	659
2	Investigating directed cortical interactions in time-resolved fMRI data using vector autoregressive modeling and Granger causality mapping. Magnetic Resonance Imaging, 2003, 21, 1251-1261.	1.8	599
3	Diffusion tensor fiber tracking shows distinct corticostriatal circuits in humans. Annals of Neurology, 2004, 55, 522-529.	5.3	498
4	Mirror-Symmetric Tonotopic Maps in Human Primary Auditory Cortex. Neuron, 2003, 40, 859-869.	8.1	421
5	High-resolution mapping of iso-orientation columns by fMRI. Nature Neuroscience, 2000, 3, 164-169.	14.8	366
6	Origin of Negative Blood Oxygenation Levelâ€"Dependent fMRI Signals. Journal of Cerebral Blood Flow and Metabolism, 2002, 22, 908-917.	4.3	329
7	3-D Diffusion Tensor Axonal Tracking shows Distinct SMA and Pre-SMA Projections to the Human Striatum. Cerebral Cortex, 2004, 14, 1302-1309.	2.9	260
8	Motor control in basal ganglia circuits using fMRI and brain atlas approaches. Cerebral Cortex, 2006, 16, 149-161.	2.9	227
9	Spatiotemporal dynamics of the BOLD fMRI signals: Toward mapping submillimeter cortical columns using the early negative response. Magnetic Resonance in Medicine, 2000, 44, 231-242.	3.0	181
10	How accurate is magnetic resonance imaging of brain function?. Trends in Neurosciences, 2003, 26, 108-114.	8.6	173
11	Optical Imaging of the Layout of Functional Domains in Area 17 and Across the Area 17/18 Border in Cat Visual Cortex. European Journal of Neuroscience, 1995, 7, 1973-1988.	2.6	161
12	Motor outcome according to the integrity of the corticospinal tract determined by diffusion tensor tractography in the early stage of corona radiata infarct. Neuroscience Letters, 2007, 426, 123-127.	2.1	121
13	Relationship Between Lateral Inhibitory Connections and the Topography of the Orientation Map in Cat Visual Cortex. European Journal of Neuroscience, 1994, 6, 1619-1632.	2.6	117
14	Functional Specificity of Long-Range Intrinsic and Interhemispheric Connections in the Visual Cortex of Strabismic Cats. Journal of Neuroscience, 1997, 17, 5480-5492.	3.6	116
15	Spatial relationship between neuronal activity and BOLD functional MRI. NeuroImage, 2004, 21, 876-885.	4.2	108
16	Brain-derived Neurotrophic Factor Reverses Experience-dependent Synaptic Modifications in Kitten Visual Cortex. European Journal of Neuroscience, 1996, 8, 1554-1559.	2.6	102
17	A Comparison of Hemodynamic and Neural Responses in Cat Visual Cortex Using Complex Stimuli. Cerebral Cortex, 2004, 14, 881-891.	2.9	98
18	Reverse occlusion leads to a precise restoration of orientation preference maps in visual cortex. Nature, 1994, 370, 370-372.	27.8	95

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19	Histological Validation of DW-MRI Tractography in Human Postmortem Tissue. Cerebral Cortex, 2013, 23, 442-450.	2.9	93
20	High-resolution diffusion tensor imaging and tractography of the human optic chiasm at 9.4ÂT. NeuroImage, 2008, 39, 157-168.	4.2	92
21	Magnetic Resonance Studies of Brain Function and Neurochemistry. Annual Review of Biomedical Engineering, 2000, 2, 633-660.	12.3	84
22	Effective and Structural Connectivity in the Human Auditory Cortex. Journal of Neuroscience, 2008, 28, 3341-3349.	3.6	83
23	Development of Orientation Preference Maps in Area 18 of Kitten Visual Cortex. European Journal of Neuroscience, 1997, 9, 1754-1762.	2.6	70
24	Optogenetic control of body movements via flexible vertical light-emitting diodes on brain surface. Nano Energy, 2018, 44, 447-455.	16.0	68
25	Anatomical correlates of the functional organization in the human occipitotemporal cortex. Magnetic Resonance Imaging, 2006, 24, 583-590.	1.8	67
26	Diffusion tensor spectroscopy and imaging of the arcuate fasciculus. NeuroImage, 2008, 39, 1-9.	4.2	66
27	Motor outcome prediction using diffusion tensor tractography in pontine infarct. Annals of Neurology, 2008, 64, 460-465.	5.3	65
28	Geometrical and topological relationships between multiple functional maps in cat primary visual cortex. NeuroReport, 1999, 10, 2515-2522.	1.2	60
29	Function and Connectivity in Human Primary Auditory Cortex: A Combined fMRI and DTI Study at 3 Tesla. Cerebral Cortex, 2007, 17, 2420-2432.	2.9	58
30	The layout of orientation and ocular dominance domains in area 17 of strabismic cats. European Journal of Neuroscience, 1998, 10, 2629-2643.	2.6	54
31	Diffusion tensor studies dissociated two fronto-temporal pathways in the human memory system. NeuroImage, 2007, 34, 827-838.	4.2	53
32	Orientation topography of layer 4 lateral networks revealed by optical imaging in cat visual cortex (area 18). European Journal of Neuroscience, 1999, 11, 4291-4308.	2.6	49
33	Spatial resolution dependence of DTI tractography in human occipito-callosal region. NeuroImage, 2006, 32, 1243-1249.	4.2	48
34	Corticospinal tract location in internal capsule of human brain: diffusion tensor tractography and functional MRI study. NeuroReport, 2008, 19, 817-820.	1.2	44
35	Dissociation and convergence of the dorsal and ventral visual working memory streams in the human prefrontal cortex. NeuroImage, 2013, 65, 488-498.	4.2	44
36	Differential effects of neurotrophins on ocular dominance plasticity in developing and adult cat visual cortex. European Journal of Neuroscience, 2000, 12, 3315-3330.	2.6	36

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37	A framework to analyze partial volume effect on gray matter mean diffusivity measurements. NeuroImage, 2009, 44, 136-144.	4.2	33
38	Cortical direction selectivity without directional experience. NeuroReport, 1997, 8, 1187-1191.	1.2	31
39	Alteration and Role of Interhemispheric and Intrahemispheric Connectivity in Motor Network After Stroke. Brain Topography, 2018, 31, 708-719.	1.8	31
40	High-field magnetic resonance techniques for brain research. Current Opinion in Neurobiology, 2003, 13, 612-619.	4.2	30
41	Dissociated Pathways for Successful Memory Retrieval from the Human Parietal Cortex: Anatomical and Functional Connectivity Analyses. Cerebral Cortex, 2008, 18, 1771-1778.	2.9	30
42	In vivo mapping of functional domains and axonal connectivity in cat visual cortex using magnetic resonance imaging. Magnetic Resonance Imaging, 2003, 21, 1131-1140.	1.8	28
43	Combining Functional and Diffusion Tensor MRI. Annals of the New York Academy of Sciences, 2005, 1064, 1-15.	3.8	24
44	How does DWI correlate with white matter structures?. Magnetic Resonance in Medicine, 2005, 54, 317-323.	3.0	23
45	Retinotopic mapping in cat visual cortex using high-field functional magnetic resonance imaging. Journal of Neuroscience Methods, 2003, 131, 161-170.	2.5	21
46	Reply to â€œCan current fMRI techniques reveal the micro-architecture of cortex?â€• Nature Neuroscience, 2000, 3, 414-414.	14.8	20
47	Graph Independent Component Analysis Reveals Repertoires of Intrinsic Network Components in the Human Brain. PLoS ONE, 2014, 9, e82873.	2.5	20
48	Functional reorganization and prediction of motor recovery after a stroke: A graph theoretical analysis of functional networks. Restorative Neurology and Neuroscience, 2015, 33, 785-793.	0.7	16
49	Modulating Brain Connectivity by Simultaneous Dual-Mode Stimulation over Bilateral Primary Motor Cortices in Subacute Stroke Patients. Neural Plasticity, 2018, 2018, 1-9.	2.2	11
50	GABA-mediated representation of temporal information in rat barrel cortex. NeuroReport, 1999, 10, 1973-1979.	1.2	9
51	Learning for Goal-Directed Actions Using RNNPB: Developmental Change of â€œWhat to Imitateâ€• IEEE Transactions on Cognitive and Developmental Systems, 2018, 10, 545-556.	3.8	9
52	Visual System. , 2012, , 1301-1327.		8
53	Pattern-Based Granger Causality Mapping in fMRI. Brain Connectivity, 2013, 3, 569-577.	1.7	7
54	Visual System. , 2004, , 1280-1305.		7

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55	Coincidence of ipsilateral ocular dominance peaks with orientation pinwheel centers in cat visual cortex. NeuroReport, 2000, 11, 3337-3343.	1.2	6
56	Predictive Coding Strategies for Developmental Neurorobotics. Frontiers in Psychology, 2012, 3, 134.	2.1	6
57	Divide et impera: Acceleration of DTI tractography using multiâ€GPU parallel processing. International Journal of Imaging Systems and Technology, 2013, 23, 256-264.	4.1	6
58	Robust fiber tracking method by vector selection criterion in diffusion tensor images. , 2004, 2004, 1080-3.		5
59	Motor trajectory decoding based on fMRI-based BCI — A simulation study. , 2013, , .		4
60	Quantification and reduction of visual load during BCI operation. , 2014, , .		4
61	Prediction of motor recovery using indirect connectivity in a lesion network after ischemic stroke. Therapeutic Advances in Neurological Disorders, 2020, 13, 175628642092567.	3.5	4
62	Recent Advances in Diffusion Magnetic Resonance Imaging. , 2008, , 289-309.		4
63	Future Trends in Medical and Molecular Imaging. , 2008, , 829-843.		4
64	Lee et al. reply. Nature, 2010, 468, E4-E5.	27.8	3
65	Recent Advances in Functional Magnetic Resonance Imaging. , 2008, , 267-287.		3
66	MRI-Based Classification of Neuropsychiatric Systemic Lupus Erythematosus Patients With Self-Supervised Contrastive Learning. Frontiers in Neuroscience, 2022, 16, 695888.	2.8	3
67	The Cutting Edge of fMRI and Highâ€Field fMRI. International Review of Neurobiology, 2005, 66, 147-166.	2.0	2
68	An efficient method for effective connectivity of brain regions. Concepts in Magnetic Resonance Part A: Bridging Education and Research, 2012, 40A, 14-24.	0.5	2
69	Functional Mapping in the Cat Primary Visual Cortex Using High Magnetic Fields. , 2002, , 195-220.		1
70	Computerâ€based morphometry of brain. International Journal of Imaging Systems and Technology, 2010, 20, 117-125.	4.1	1
71	Learning spatio-temporally invariant representations from video. , 2012, , .		1
72	A Multipleâ€State Ion Synaptic Transistor Applicable to Abnormal Car Detection with Transfer Learning. Advanced Intelligent Systems, 0, , 2100231.	6.1	1

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73	Spatial specificity of CBF and BOLD responses induced by neural activity. International Congress Series, 2002, 1235, 39-47.	0.2	0
74	Introduction to Medical Imaging and Image Analysis: A Multidisciplinary Paradigm. , 2008, , 1-8.		0
75	Diffusion tensor imaging in developmental clinical neuroscience. , 0, , 314-325.		0
76	Guest editorial: Special issue on neuroimaging. International Journal of Imaging Systems and Technology, 2010, 20, 1-1.	4.1	0
77	A 2.048 Mb/s Full-Duplex Free-Space Optical Transceiver IC for a Real-Time <italic>In Vivo</italic> Brainâ€“Computer Interface Mouse Experiment Under Social Interaction. IEEE Journal of Solid-State Circuits, 2017, 52, 1007-1020.	5.4	0
78	Principles of Magnetic Resonance Imaging. , 2008, , 99-127.		0
79	How falsely believing you are in control can shape brain responses to aversive stimuli using functional magnetic resonance imaging. FASEB Journal, 2009, 23, 70.2.	0.5	0
80	Hierarchical ordering with partial pairwise hierarchical relationships on the macaque brain data sets. PLoS ONE, 2017, 12, e0177373.	2.5	0