

# Dae-Shik Kim

## List of Publications by Year in descending order

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80  
papers

6,186  
citations

125106

35  
h-index

134545

62  
g-index

81  
all docs

81  
docs citations

81  
times ranked

8345  
citing authors

#	ARTICLE	IF	CITATIONS
1	MRI-Based Classification of Neuropsychiatric Systemic Lupus Erythematosus Patients With Self-Supervised Contrastive Learning. <i>Frontiers in Neuroscience</i> , 2022, 16, 695888.	1.4	3
2	Prediction of motor recovery using indirect connectivity in a lesion network after ischemic stroke. <i>Therapeutic Advances in Neurological Disorders</i> , 2020, 13, 175628642092567.	1.5	4
3	Learning for Goal-Directed Actions Using RNNPB: Developmental Change of “What to Imitate”. <i>IEEE Transactions on Cognitive and Developmental Systems</i> , 2018, 10, 545-556.	2.6	9
4	Alteration and Role of Interhemispheric and Intrahemispheric Connectivity in Motor Network After Stroke. <i>Brain Topography</i> , 2018, 31, 708-719.	0.8	31
5	Optogenetic control of body movements via flexible vertical light-emitting diodes on brain surface. <i>Nano Energy</i> , 2018, 44, 447-455.	8.2	68
6	Modulating Brain Connectivity by Simultaneous Dual-Mode Stimulation over Bilateral Primary Motor Cortices in Subacute Stroke Patients. <i>Neural Plasticity</i> , 2018, 2018, 1-9.	1.0	11
7	A 2.048 Mb/s Full-Duplex Free-Space Optical Transceiver IC for a Real-Time <i>Vivo</i> Brain-Computer Interface Mouse Experiment Under Social Interaction. <i>IEEE Journal of Solid-State Circuits</i> , 2017, 52, 1007-1020.	3.5	0
8	Hierarchical ordering with partial pairwise hierarchical relationships on the macaque brain data sets. <i>PLoS ONE</i> , 2017, 12, e0177373.	1.1	0
9	Functional reorganization and prediction of motor recovery after a stroke: A graph theoretical analysis of functional networks. <i>Restorative Neurology and Neuroscience</i> , 2015, 33, 785-793.	0.4	16
10	Graph Independent Component Analysis Reveals Repertoires of Intrinsic Network Components in the Human Brain. <i>PLoS ONE</i> , 2014, 9, e82873.	1.1	20
11	Quantification and reduction of visual load during BCI operation. , 2014, , .		4
12	Dissociation and convergence of the dorsal and ventral visual working memory streams in the human prefrontal cortex. <i>NeuroImage</i> , 2013, 65, 488-498.	2.1	44
13	Motor trajectory decoding based on fMRI-based BCI ; A simulation study. , 2013, , .		4
14	Histological Validation of DW-MRI Tractography in Human Postmortem Tissue. <i>Cerebral Cortex</i> , 2013, 23, 442-450.	1.6	93
15	Divide et impera: Acceleration of DTI tractography using multi-GPU parallel processing. <i>International Journal of Imaging Systems and Technology</i> , 2013, 23, 256-264.	2.7	6
16	Pattern-Based Granger Causality Mapping in fMRI. <i>Brain Connectivity</i> , 2013, 3, 569-577.	0.8	7
17	Visual System. , 2012, , 1301-1327.		8
18	Learning spatio-temporally invariant representations from video. , 2012, , .		1

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19	Predictive Coding Strategies for Developmental Neurorobotics. <i>Frontiers in Psychology</i> , 2012, 3, 134.	1.1	6
20	An efficient method for effective connectivity of brain regions. <i>Concepts in Magnetic Resonance Part A: Bridging Education and Research</i> , 2012, 40A, 14-24.	0.2	2
21	Guest editorial: Special issue on neuroimaging. <i>International Journal of Imaging Systems and Technology</i> , 2010, 20, 1-1.	2.7	0
22	Computer- based morphometry of brain. <i>International Journal of Imaging Systems and Technology</i> , 2010, 20, 117-125.	2.7	1
23	Global and local fMRI signals driven by neurons defined optogenetically by type and wiring. <i>Nature</i> , 2010, 465, 788-792.	13.7	659
24	Lee et al. reply. <i>Nature</i> , 2010, 468, E4-E5.	13.7	3
25	A framework to analyze partial volume effect on gray matter mean diffusivity measurements. <i>NeuroImage</i> , 2009, 44, 136-144.	2.1	33
26	How falsely believing you are in control can shape brain responses to aversive stimuli using functional magnetic resonance imaging. <i>FASEB Journal</i> , 2009, 23, 70.2.	0.2	0
27	Motor outcome prediction using diffusion tensor tractography in pontine infarct. <i>Annals of Neurology</i> , 2008, 64, 460-465.	2.8	65
28	High-resolution diffusion tensor imaging and tractography of the human optic chiasm at 9.4T. <i>NeuroImage</i> , 2008, 39, 157-168.	2.1	92
29	Diffusion tensor spectroscopy and imaging of the arcuate fasciculus. <i>NeuroImage</i> , 2008, 39, 1-9.	2.1	66
30	Effective and Structural Connectivity in the Human Auditory Cortex. <i>Journal of Neuroscience</i> , 2008, 28, 3341-3349.	1.7	83
31	Dissociated Pathways for Successful Memory Retrieval from the Human Parietal Cortex: Anatomical and Functional Connectivity Analyses. <i>Cerebral Cortex</i> , 2008, 18, 1771-1778.	1.6	30
32	Introduction to Medical Imaging and Image Analysis: A Multidisciplinary Paradigm. , 2008, , 1-8.		0
33	Corticospinal tract location in internal capsule of human brain: diffusion tensor tractography and functional MRI study. <i>NeuroReport</i> , 2008, 19, 817-820.	0.6	44
34	Recent Advances in Functional Magnetic Resonance Imaging. , 2008, , 267-287.		3
35	Recent Advances in Diffusion Magnetic Resonance Imaging. , 2008, , 289-309.		4
36	Future Trends in Medical and Molecular Imaging. , 2008, , 829-843.		4

#	ARTICLE	IF	CITATIONS
37	Principles of Magnetic Resonance Imaging. , 2008, , 99-127.		0
38	Function and Connectivity in Human Primary Auditory Cortex: A Combined fMRI and DTI Study at 3 Tesla. Cerebral Cortex, 2007, 17, 2420-2432.	1.6	58
39	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.	1.0	121
40	Diffusion tensor studies dissociated two fronto-temporal pathways in the human memory system. NeuroImage, 2007, 34, 827-838.	2.1	53
41	Spatial resolution dependence of DTI tractography in human occipito-callosal region. NeuroImage, 2006, 32, 1243-1249.	2.1	48
42	Anatomical correlates of the functional organization in the human occipitotemporal cortex. Magnetic Resonance Imaging, 2006, 24, 583-590.	1.0	67
43	Motor control in basal ganglia circuits using fMRI and brain atlas approaches. Cerebral Cortex, 2006, 16, 149-161.	1.6	227
44	Combining Functional and Diffusion Tensor MRI. Annals of the New York Academy of Sciences, 2005, 1064, 1-15.	1.8	24
45	How does DWI correlate with white matter structures?. Magnetic Resonance in Medicine, 2005, 54, 317-323.	1.9	23
46	The Cutting Edge of fMRI and High-Field fMRI. International Review of Neurobiology, 2005, 66, 147-166.	0.9	2
47	3-D Diffusion Tensor Axonal Tracking shows Distinct SMA and Pre-SMA Projections to the Human Striatum. Cerebral Cortex, 2004, 14, 1302-1309.	1.6	260
48	A Comparison of Hemodynamic and Neural Responses in Cat Visual Cortex Using Complex Stimuli. Cerebral Cortex, 2004, 14, 881-891.	1.6	98
49	Robust fiber tracking method by vector selection criterion in diffusion tensor images. , 2004, 2004, 1080-3.		5
50	Diffusion tensor fiber tracking shows distinct corticostriatal circuits in humans. Annals of Neurology, 2004, 55, 522-529.	2.8	498
51	Spatial relationship between neuronal activity and BOLD functional MRI. NeuroImage, 2004, 21, 876-885.	2.1	108
52	Visual System. , 2004, , 1280-1305.		7
53	In vivo mapping of functional domains and axonal connectivity in cat visual cortex using magnetic resonance imaging. Magnetic Resonance Imaging, 2003, 21, 1131-1140.	1.0	28
54	Investigating directed cortical interactions in time-resolved fMRI data using vector autoregressive modeling and Granger causality mapping. Magnetic Resonance Imaging, 2003, 21, 1251-1261.	1.0	599

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55	High-field magnetic resonance techniques for brain research. <i>Current Opinion in Neurobiology</i> , 2003, 13, 612-619.	2.0	30
56	Retinotopic mapping in cat visual cortex using high-field functional magnetic resonance imaging. <i>Journal of Neuroscience Methods</i> , 2003, 131, 161-170.	1.3	21
57	How accurate is magnetic resonance imaging of brain function?. <i>Trends in Neurosciences</i> , 2003, 26, 108-114.	4.2	173
58	Mirror-Symmetric Tonotopic Maps in Human Primary Auditory Cortex. <i>Neuron</i> , 2003, 40, 859-869.	3.8	421
59	Spatial specificity of CBF and BOLD responses induced by neural activity. <i>International Congress Series</i> , 2002, 1235, 39-47.	0.2	0
60	Functional Mapping in the Cat Primary Visual Cortex Using High Magnetic Fields. , 2002, , 195-220.		1
61	Origin of Negative Blood Oxygenation Level-Dependent fMRI Signals. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2002, 22, 908-917.	2.4	329
62	Coincidence of ipsilateral ocular dominance peaks with orientation pinwheel centers in cat visual cortex. <i>NeuroReport</i> , 2000, 11, 3337-3343.	0.6	6
63	Spatiotemporal dynamics of the BOLD fMRI signals: Toward mapping submillimeter cortical columns using the early negative response. <i>Magnetic Resonance in Medicine</i> , 2000, 44, 231-242.	1.9	181
64	Differential effects of neurotrophins on ocular dominance plasticity in developing and adult cat visual cortex. <i>European Journal of Neuroscience</i> , 2000, 12, 3315-3330.	1.2	36
65	High-resolution mapping of iso-orientation columns by fMRI. <i>Nature Neuroscience</i> , 2000, 3, 164-169.	7.1	366
66	Reply to "Can current fMRI techniques reveal the micro-architecture of cortex?". <i>Nature Neuroscience</i> , 2000, 3, 414-414.	7.1	20
67	Magnetic Resonance Studies of Brain Function and Neurochemistry. <i>Annual Review of Biomedical Engineering</i> , 2000, 2, 633-660.	5.7	84
68	Orientation topography of layer 4 lateral networks revealed by optical imaging in cat visual cortex (area 18). <i>European Journal of Neuroscience</i> , 1999, 11, 4291-4308.	1.2	49
69	GABA-mediated representation of temporal information in rat barrel cortex. <i>NeuroReport</i> , 1999, 10, 1973-1979.	0.6	9
70	Geometrical and topological relationships between multiple functional maps in cat primary visual cortex. <i>NeuroReport</i> , 1999, 10, 2515-2522.	0.6	60
71	The layout of orientation and ocular dominance domains in area 17 of strabismic cats. <i>European Journal of Neuroscience</i> , 1998, 10, 2629-2643.	1.2	54
72	Cortical direction selectivity without directional experience. <i>NeuroReport</i> , 1997, 8, 1187-1191.	0.6	31

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73	Functional Specificity of Long-Range Intrinsic and Interhemispheric Connections in the Visual Cortex of Strabismic Cats. <i>Journal of Neuroscience</i> , 1997, 17, 5480-5492.	1.7	116
74	Development of Orientation Preference Maps in Area 18 of Kitten Visual Cortex. <i>European Journal of Neuroscience</i> , 1997, 9, 1754-1762.	1.2	70
75	Brain-derived Neurotrophic Factor Reverses Experience-dependent Synaptic Modifications in Kitten Visual Cortex. <i>European Journal of Neuroscience</i> , 1996, 8, 1554-1559.	1.2	102
76	Optical Imaging of the Layout of Functional Domains in Area 17 and Across the Area 17/18 Border in Cat Visual Cortex. <i>European Journal of Neuroscience</i> , 1995, 7, 1973-1988.	1.2	161
77	Reverse occlusion leads to a precise restoration of orientation preference maps in visual cortex. <i>Nature</i> , 1994, 370, 370-372.	13.7	95
78	Relationship Between Lateral Inhibitory Connections and the Topography of the Orientation Map in Cat Visual Cortex. <i>European Journal of Neuroscience</i> , 1994, 6, 1619-1632.	1.2	117
79	Diffusion tensor imaging in developmental clinical neuroscience. , 0, , 314-325.		0
80	A Multiple- $\pi$ -State Ion Synaptic Transistor Applicable to Abnormal Car Detection with Transfer Learning. <i>Advanced Intelligent Systems</i> , 0, , 2100231.	3.3	1