Hosung Kim

List of Publications by Year
in descending order

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61 papers	2,225 citations	279798 23 h-index	243625 44 g-index
69 all docs	69 docs citations	69 times ranked	3960 citing authors

#	Article	IF	Citations
1	The <scp>ENIGMA</scp> Stroke Recovery Working Group: Big data neuroimaging to study brainâ€“behavior relationships after stroke. Human Brain Mapping, 2022, 43, 129-148.	3.6	54
2	Altered cerebrocerebellar functional connectivity in patients with obstructive sleep apnea and its association with cognitive function. Sleep, 2022, 45, .	1.1	17
3	Hippocampal asymmetry of regional development and structural covariance in preterm neonates. Cerebral Cortex, 2022, 32, 4271-4283.	2.9	4
4	Cyto/myeloarchitecture of cortical gray matter and superficial white matter in early neurodevelopment: multimodal MRI study in preterm neonates. Cerebral Cortex, 2022, 33, 357-373.	2.9	3
5	Chronic Stroke Sensorimotor Impairment Is Related to Smaller Hippocampal Volumes: An ENIGMA Analysis. Journal of the American Heart Association, 2022, 11, e025109.	3.7	8
6	Cortical reorganization following auditory deprivation predicts cochlear implant performance in postlingually deaf adults. Human Brain Mapping, 2021, 42, 233-244.	3.6	13
7	Robust Cortical Thickness Morphometry of Neonatal Brain and Systematic Evaluation Using Multi-Site MRI Datasets. Frontiers in Neuroscience, 2021, 15, 650082.	2.8	10
8	Retrospective motion artifact correction of structural MRI images using deep learning improves the quality of cortical surface reconstructions. NeuroImage, 2021, 230, 117756.	4.2	39
9	ENIGMAâ€Sleep: Challenges, opportunities, and the road map. Journal of Sleep Research, 2021, 30, e13347.	3.2	19
10	Learning to Synthesize Cortical Morphological Changes using Graph Conditional Variational Autoencoder. , 2021, 2021, 1495-1499.		1
11	Altered regional cerebral blood flow in obstructive sleep apnea is associated with sleep fragmentation and oxygen desaturation. Journal of Cerebral Blood Flow and Metabolism, 2021, 41, 2712-2724.	4.3	17
12	407 Explanatory analysis of polysomnography for the identification of sleep apnea hypopnea events using deep learning neural network. Sleep, 2021, 44, A161-A162.	1.1	0
13	Morphological Development Trajectory and Structural Covariance Network of the Human Fetal Cortical Plate during the Early Second Trimester. Cerebral Cortex, 2021, 31, 4794-4807.	2.9	12
14	Neuromarkers from Whole-Brain Functional Connectivity Reveal the Cognitive Recovery Scheme for Overt Hepatic Encephalopathy after Liver Transplantation. ENeuro, 2021, 8, ENEURO.0114-21.2021.	1.9	4
15	Smaller spared subcortical nuclei are associated with worse post-stroke sensorimotor outcomes in 28 cohorts worldwide. Brain Communications, 2021, 3, fcab254.	3.3	7
16	A five-year longitudinal study reveals progressive cortical thinning in narcolepsy and faster cortical thinning in relation to early-onset. Brain Imaging and Behavior, 2020, 14, 200-212.	2.1	8
17	Imputation Strategy for Reliable Regional MRI Morphological Measurements. Neuroinformatics, 2020, 18, 59-70.	2.8	13
18	White matter tract-specific alterations in male patients with untreated obstructive sleep apnea are associated with worse cognitive function. Sleep, 2020, 43, .	1.1	25

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19	Deep Learning Detection of Penumbral Tissue on Arterial Spin Labeling in Stroke. Stroke, 2020, 51, 489-497.	2.0	39
20	Disruption and Compensation of Sulcation-based Covariance Networks in Neonatal Brain Growth after Perinatal Injury. Cerebral Cortex, 2020, 30, 6238-6253.	2.9	19
21	Alterations of cortical thickness and grayâ€white matter contrast in Alzheimerâ€™s disease and Lewy bodyâ€related cognitive impairment. Alzheimer's and Dementia, 2020, 16, e041245.	0.8	1
22	Deep Learning of Cortical Surface Features Using Graph-Convolution Predicts Neonatal Brain Age and Neurodevelopmental Outcome. , 2020, , .		8
23	Beyond sleepy: structural and functional changes of the default-mode network in idiopathic hypersomnia. Sleep, 2019, 42, .	1.1	23
24	A comparison of automated lesion segmentation approaches for chronic stroke T1â€weighted MRI data. Human Brain Mapping, 2019, 40, 4669-4685.	3.6	49
25	The LONI QC System: A Semi-Automated, Web-Based and Freely-Available Environment for the Comprehensive Quality Control of Neuroimaging Data. Frontiers in Neuroinformatics, 2019, 13, 60.	2.5	34
26	Random Forest Regression Combined with MRI Brain Morphometry Predicts Surgical Outcome of Cochlear Implantation. , 2019, , .		1
27	A Skeleton and Deformation Based Model for Neonatal Pial Surface Reconstruction in Preterm Newborns. , 2019, , .		9
28	Age-Related Differences in Brain Morphology and the Modifiers in Middle-Aged and Older Adults. Cerebral Cortex, 2019, 29, 4169-4193.	2.9	42
29	A large, open source dataset of stroke anatomical brain images and manual lesion segmentations. Scientific Data, 2018, 5, 180011.	5.3	170
30	Quantitative surface analysis of combined MRI and PET enhances detection of focal cortical dysplasias. NeuroImage, 2018, 166, 10-18.	4.2	49
31	The association between cardiac physiology, acquired brain injury, and postnatal brain growth in critical congenital heart disease. Journal of Thoracic and Cardiovascular Surgery, 2018, 155, 291-300.e3.	0.8	61
32	Cochlear Implantation in Postlingually Deaf Adults is Time-sensitive Towards Positive Outcome: Prediction using Advanced Machine Learning Techniques. Scientific Reports, 2018, 8, 18004.	3.3	43
33	Multi-Template Mesiotemporal Lobe Segmentation: Effects of Surface and Volume Feature Modeling. Frontiers in Neuroinformatics, 2018, 12, 39.	2.5	3
34	Egocentric and allocentric visuospatial working memory in premotor Huntington's disease: A double dissociation with caudate and hippocampal volumes. Neuropsychologia, 2017, 101, 57-64.	1.6	16
35	Early changes in brain structure correlate with language outcomes in children with neonatal encephalopathy. NeuroImage: Clinical, 2017, 15, 572-580.	2.7	27
36	Microstructure of the Default Mode Network in Preterm Infants. American Journal of Neuroradiology, 2017, 38, 343-348.	2.4	17

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37	Surface-based morphometry reveals caudate subnuclear structural damage in patients with premotor Huntington disease. Brain Imaging and Behavior, 2017, 11, 1365-1372.	2.1	8
38	Cortical Thinning and Altered Cortico-Cortical Structural Covariance of the Default Mode Network in Patients with Persistent Insomnia Symptoms. Sleep, 2016, 39, 161-171.	1.1	75
39	Hindbrain regional growth in preterm newborns and its impairment in relation to brain injury. Human Brain Mapping, 2016, 37, 678-688.	3.6	29
40	Brain Injury in the Preterm and Term Neonate. Current Radiology Reports, 2016, 4, 1.	1.4	1
41	Extensive migration of young neurons into the infant human frontal lobe. Science, 2016, 354, .	12.6	293
42	Effects of long-term treatment on brain volume in patients with obstructive sleep apnea syndrome. Human Brain Mapping, 2016, 37, 395-409.	3.6	54
43	NEOCIVET: Towards accurate morphometry of neonatal gyrification and clinical applications in preterm newborns. NeuroImage, 2016, 138, 28-42.	4.2	37
44	Pyruvate to Lactate Metabolic Changes during Neurodevelopment Measured Dynamically Using Hyperpolarized ¹³C Imaging in Juvenile Murine Brain. Developmental Neuroscience, 2016, 38, 34-40.	2.0	17
45	Morphological alterations in amygdalo-hippocampal substructures in narcolepsy patients with cataplexy. Brain Imaging and Behavior, 2016, 10, 984-994.	2.1	22
46	A Surface Patch-Based Segmentation Method for Hippocampal Subfields. Lecture Notes in Computer Science, 2016, , 379-387.	1.3	28
47	Accurate cortical tissue classification on <scp>MRI</scp> by modeling cortical folding patterns. Human Brain Mapping, 2015, 36, 3563-3574.	3.6	16
48	NEOCIVET: Extraction of Cortical Surface and Analysis of Neonatal Gyrification Using a Modified CIVET Pipeline. Lecture Notes in Computer Science, 2015, , 571-579.	1.3	4
49	Automated detection of cortical dysplasia type II in MRI-negative epilepsy. Neurology, 2014, 83, 48-55.	1.1	148
50	Hippocampal Substructural Vulnerability to Sleep Disturbance and Cognitive Impairment in Patients with Chronic Primary Insomnia: Magnetic Resonance Imaging Morphometry. Sleep, 2014, 37, 1189-1198.	1.1	150
51	Multivariate Hippocampal Subfield Analysis of Local MRI Intensity and Volume: Application to Temporal Lobe Epilepsy. Lecture Notes in Computer Science, 2014, 17, 170-178.	1.3	18
52	Patterns of subregional mesiotemporal disease progression in temporal lobe epilepsy. Neurology, 2013, 81, 1840-1847.	1.1	82
53	Disentangling Hippocampal Shape Anomalies in Epilepsy. Frontiers in Neurology, 2013, 4, 131.	2.4	28
54	Mapping thalamocortical network pathology in temporal lobe epilepsy. Neurology, 2012, 78, 129-136.	1.1	95

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55	Spatial patterns of water diffusion along white matter tracts in temporal lobe epilepsy. Neurology, 2012, 79, 455-462.	1.1	111
56	Automatic hippocampal segmentation in temporal lobe epilepsy: Impact of developmental abnormalities. NeuroImage, 2012, 59, 3178-3186.	4.2	52
57	Surface-based multi-template automated hippocampal segmentation: Application to temporal lobe epilepsy. Medical Image Analysis, 2012, 16, 1445-1455.	11.6	25
58	Vertex-Wise Shape Analysis of the Hippocampus: Disentangling Positional Differences from Volume Changes. Lecture Notes in Computer Science, 2011, 14, 352-359.	1.3	5
59	Robust Surface-Based Multi-template Automated Algorithm to Segment Healthy and Pathological Hippocampi. Lecture Notes in Computer Science, 2011, 14, 445-453.	1.3	2
60	Temporal lobe epilepsy: Differential pattern of damage in temporopolar cortex and white matter. Human Brain Mapping, 2008, 29, 931-944.	3.6	30
61	Surface-Based Vector Analysis Using Heat Equation Interpolation: A New Approach to Quantify Local Hippocampal Volume Changes. Lecture Notes in Computer Science, 2008, 11, 1008-1015.	1.3	18