Hosung Kim

List of Publications by Year
in descending order

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	Extensive migration of young neurons into the infant human frontal lobe. Science, 2016, 354, .	12.6	293
2	A large, open source dataset of stroke anatomical brain images and manual lesion segmentations. Scientific Data, 2018, 5, 180011.	5.3	170
3	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
4	Automated detection of cortical dysplasia type II in MRI-negative epilepsy. Neurology, 2014, 83, 48-55.	1.1	148
5	Spatial patterns of water diffusion along white matter tracts in temporal lobe epilepsy. Neurology, 2012, 79, 455-462.	1.1	111
6	Mapping thalamocortical network pathology in temporal lobe epilepsy. Neurology, 2012, 78, 129-136.	1.1	95
7	Patterns of subregional mesiotemporal disease progression in temporal lobe epilepsy. Neurology, 2013, 81, 1840-1847.	1.1	82
8	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
9	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
10	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
11	The <scp>ENIGMA</scp> Stroke Recovery Working Group: Big data neuroimaging to study brain–behavior relationships after stroke. Human Brain Mapping, 2022, 43, 129-148.	3.6	54
12	Automatic hippocampal segmentation in temporal lobe epilepsy: Impact of developmental abnormalities. NeuroImage, 2012, 59, 3178-3186.	4.2	52
13	Quantitative surface analysis of combined MRI and PET enhances detection of focal cortical dysplasias. NeuroImage, 2018, 166, 10-18.	4.2	49
14	A comparison of automated lesion segmentation approaches for chronic stroke T1–weighted MRI data. Human Brain Mapping, 2019, 40, 4669-4685.	3.6	49
15	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
16	Age-Related Differences in Brain Morphology and the Modifiers in Middle-Aged and Older Adults. Cerebral Cortex, 2019, 29, 4169-4193.	2.9	42
17	Deep Learning Detection of Penumbral Tissue on Arterial Spin Labeling in Stroke. Stroke, 2020, 51, 489-497.	2.0	39
18	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

#	Article	IF	Citations
19	NEOCIVET: Towards accurate morphometry of neonatal gyrification and clinical applications in preterm newborns. NeuroImage, 2016, 138, 28-42.	4.2	37
20	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
21	Temporal lobe epilepsy: Differential pattern of damage in temporopolar cortex and white matter. Human Brain Mapping, 2008, 29, 931-944.	3.6	30
22	Hindbrain regional growth in preterm newborns and its impairment in relation to brain injury. Human Brain Mapping, 2016, 37, 678-688.	3.6	29
23	Disentangling Hippocampal Shape Anomalies in Epilepsy. Frontiers in Neurology, 2013, 4, 131.	2.4	28
24	A Surface Patch-Based Segmentation Method for Hippocampal Subfields. Lecture Notes in Computer Science, 2016, , 379-387.	1.3	28
25	Early changes in brain structure correlate with language outcomes in children with neonatal encephalopathy. NeuroImage: Clinical, 2017, 15, 572-580.	2.7	27
26	Surface-based multi-template automated hippocampal segmentation: Application to temporal lobe epilepsy. Medical Image Analysis, 2012, 16, 1445-1455.	11.6	25
27	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
28	Beyond sleepy: structural and functional changes of the default-mode network in idiopathic hypersomnia. Sleep, 2019, 42, .	1.1	23
29	Morphological alterations in amygdalo-hippocampal substructures in narcolepsy patients with cataplexy. Brain Imaging and Behavior, 2016, 10, 984-994.	2.1	22
30	Disruption and Compensation of Sulcation-based Covariance Networks in Neonatal Brain Growth after Perinatal Injury. Cerebral Cortex, 2020, 30, 6238-6253.	2.9	19
31	ENIGMAâ€Sleep: Challenges, opportunities, and the road map. Journal of Sleep Research, 2021, 30, e13347.	3.2	19
32	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
33	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
34	Pyruvate to Lactate Metabolic Changes during Neurodevelopment Measured Dynamically Using Hyperpolarized ^{13}C Imaging in Juvenile Murine Brain. Developmental Neuroscience, 2016, 38, 34-40.	2.0	17
35	Microstructure of the Default Mode Network in Preterm Infants. American Journal of Neuroradiology, 2017, 38, 343-348.	2.4	17
36	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

#	ARTICLE	IF	CITATIONS
37	Altered cerebrocerebellar functional connectivity in patients with obstructive sleep apnea and its association with cognitive function. Sleep, 2022, 45, .	1.1	17
38	Accurate cortical tissue classification on <scp>MRI</scp> by modeling cortical folding patterns. Human Brain Mapping, 2015, 36, 3563-3574.	3.6	16
39	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
40	Imputation Strategy for Reliable Regional MRI Morphological Measurements. Neuroinformatics, 2020, 18, 59-70.	2.8	13
41	Cortical reorganization following auditory deprivation predicts cochlear implant performance in postlingually deaf adults. Human Brain Mapping, 2021, 42, 233-244.	3.6	13
42	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
43	Robust Cortical Thickness Morphometry of Neonatal Brain and Systematic Evaluation Using Multi-Site MRI Datasets. Frontiers in Neuroscience, 2021, 15, 650082.	2.8	10
44	A Skeleton and Deformation Based Model for Neonatal Pial Surface Reconstruction in Preterm Newborns. , 2019, , .		9
45	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
46	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
47	Deep Learning of Cortical Surface Features Using Graph-Convolution Predicts Neonatal Brain Age and Neurodevelopmental Outcome. , 2020, , .		8
48	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
49	Smaller spared subcortical nuclei are associated with worse post-stroke sensorimotor outcomes in 28 cohorts worldwide. Brain Communications, 2021, 3, fcab254.	3.3	7
50	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
51	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
52	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
53	Hippocampal asymmetry of regional development and structural covariance in preterm neonates. Cerebral Cortex, 2022, 32, 4271-4283.	2.9	4
54	Multi-Template Mesiotemporal Lobe Segmentation: Effects of Surface and Volume Feature Modeling. Frontiers in Neuroinformatics, 2018, 12, 39.	2.5	3

#	Article	IF	Citations
55	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
56	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
57	Brain Injury in the Preterm and Term Neonate. Current Radiology Reports, 2016, 4, 1.	1.4	1
58	Random Forest Regression Combined with MRI Brain Morphometry Predicts Surgical Outcome of Cochlear Implantation. , 2019, , .		1
59	Alterations of cortical thickness and gray–white matter contrast in Alzheimer's disease and Lewy body–related cognitive impairment. Alzheimer's and Dementia, 2020, 16, e041245.	0.8	1
60	Learning to Synthesize Cortical Morphological Changes using Graph Conditional Variational Autoencoder. , 2021, 2021, 1495-1499.		1
61	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