

Hesheng Liu

List of Publications by Year in descending order

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129
papers

17,956
citations

76326

40
h-index

18647

119
g-index

140
all docs

140
docs citations

140
times ranked

17950
citing authors

#	ARTICLE	IF	CITATIONS
1	The organization of the human cerebral cortex estimated by intrinsic functional connectivity. <i>Journal of Neurophysiology</i> , 2011, 106, 1125-1165.	1.8	6,420
2	Cortical Hubs Revealed by Intrinsic Functional Connectivity: Mapping, Assessment of Stability, and Relation to Alzheimer's Disease. <i>Journal of Neuroscience</i> , 2009, 29, 1860-1873.	3.6	2,576
3	Individual Variability in Functional Connectivity Architecture of the Human Brain. <i>Neuron</i> , 2013, 77, 586-595.	8.1	949
4	Activation of Apoptosis Signal-Regulating Kinase 1 (ASK1) by Tumor Necrosis Factor Receptor-Associated Factor 2 Requires Prior Dissociation of the ASK1 Inhibitor Thioredoxin. <i>Molecular and Cellular Biology</i> , 2000, 20, 2198-2208.	2.3	492
5	Resting-state networks link invasive and noninvasive brain stimulation across diverse psychiatric and neurological diseases. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E4367-75.	7.1	486
6	Spatial Topography of Individual-Specific Cortical Networks Predicts Human Cognition, Personality, and Emotion. <i>Cerebral Cortex</i> , 2019, 29, 2533-2551.	2.9	430
7	Parcellating cortical functional networks in individuals. <i>Nature Neuroscience</i> , 2015, 18, 1853-1860.	14.8	429
8	Network localization of neurological symptoms from focal brain lesions. <i>Brain</i> , 2015, 138, 3061-3075.	7.6	364
9	The Organization of Local and Distant Functional Connectivity in the Human Brain. <i>PLoS Computational Biology</i> , 2010, 6, e1000808.	3.2	362
10	Timing, Timing, Timing: Fast Decoding of Object Information from Intracranial Field Potentials in Human Visual Cortex. <i>Neuron</i> , 2009, 62, 281-290.	8.1	353
11	Evidence from intrinsic activity that asymmetry of the human brain is controlled by multiple factors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 20499-20503.	7.1	333
12	Identification of reproducible individualized targets for treatment of depression with TMS based on intrinsic connectivity. <i>NeuroImage</i> , 2013, 66, 151-160.	4.2	275
13	The Dynamics of Cortical and Hippocampal Atrophy in Alzheimer Disease. <i>Archives of Neurology</i> , 2011, 68, 1040.	4.5	267
14	Neurobiological basis of head motion in brain imaging. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 6058-6062.	7.1	265
15	Stepwise Connectivity of the Modal Cortex Reveals the Multimodal Organization of the Human Brain. <i>Journal of Neuroscience</i> , 2012, 32, 10649-10661.	3.6	253
16	A human brain network derived from coma-causing brainstem lesions. <i>Neurology</i> , 2016, 87, 2427-2434.	1.1	187
17	Network localization of cervical dystonia based on causal brain lesions. <i>Brain</i> , 2019, 142, 1660-1674.	7.6	160
18	Functional Specialization in the Human Brain Estimated By Intrinsic Hemispheric Interaction. <i>Journal of Neuroscience</i> , 2014, 34, 12341-12352.	3.6	120

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19	Focal Pontine Lesions Provide Evidence That Intrinsic Functional Connectivity Reflects Polysynaptic Anatomical Pathways. <i>Journal of Neuroscience</i> , 2011, 31, 15065-15071.	3.6	118
20	Task-free presurgical mapping using functional magnetic resonance imaging intrinsic activity. <i>Journal of Neurosurgery</i> , 2009, 111, 746-754.	1.6	117
21	State-dependent variability of dynamic functional connectivity between frontoparietal and default networks relates to cognitive flexibility. <i>Neuroscience</i> , 2016, 339, 12-21.	2.3	111
22	How Working Memory and the Cerebellum Collaborate to Produce Creativity and Innovation. <i>Creativity Research Journal</i> , 2007, 19, 1-18.	2.6	109
23	S1 is Associated with Chronic Low Back Pain: A Functional and Structural MRI Study. <i>Molecular Pain</i> , 2013, 9, 1744-8069-9-43.	2.1	98
24	Cerebellar asymmetry and its relation to cerebral asymmetry estimated by intrinsic functional connectivity. <i>Journal of Neurophysiology</i> , 2013, 109, 46-57.	1.8	98
25	Individual-specific functional connectivity markers track dimensional and categorical features of psychotic illness. <i>Molecular Psychiatry</i> , 2020, 25, 2119-2129.	7.9	93
26	Performing group-level functional image analyses based on homologous functional regions mapped in individuals. <i>PLoS Biology</i> , 2019, 17, e2007032.	5.6	84
27	Localization of focal epileptic discharges using functional connectivity magnetic resonance imaging. <i>Journal of Neurosurgery</i> , 2011, 114, 1693-1697.	1.6	80
28	Standardized Shrinking LORETA-FOCUSS (SSLOFO): A New Algorithm for Spatio-Temporal EEG Source Reconstruction. <i>IEEE Transactions on Biomedical Engineering</i> , 2005, 52, 1681-1691.	4.2	71
29	Reliability correction for functional connectivity: Theory and implementation. <i>Human Brain Mapping</i> , 2015, 36, 4664-4680.	3.6	71
30	Classification of Single-Trial Electroencephalogram During Finger Movement. <i>IEEE Transactions on Biomedical Engineering</i> , 2004, 51, 1019-1025.	4.2	70
31	Identifying Shared Brain Networks in Individuals by Decoupling Functional and Anatomical Variability. <i>Cerebral Cortex</i> , 2016, 26, 4004-4014.	2.9	68
32	Abnormalities in Hemispheric Specialization of Caudate Nucleus Connectivity in Schizophrenia. <i>JAMA Psychiatry</i> , 2015, 72, 552.	11.0	63
33	Propagation of epileptic spikes reconstructed from spatiotemporal magnetoencephalographic and electroencephalographic source analysis. <i>NeuroImage</i> , 2010, 50, 217-222.	4.2	62
34	Resting-state fMRI detects alterations in whole brain connectivity related to tumor biology in glioma patients. <i>Neuro-Oncology</i> , 2020, 22, 1388-1398.	1.2	60
35	Large-Scale Functional Brain Network Architecture Changes Associated With Trauma-Related Dissociation. <i>American Journal of Psychiatry</i> , 2021, 178, 165-173.	7.2	57
36	The associations of earlier trauma exposures and history of mental disorders with PTSD after subsequent traumas. <i>Molecular Psychiatry</i> , 2018, 23, 1892-1899.	7.9	52

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37	Subthalamic Nucleus Deep Brain Stimulation Modulates 2 Distinct Neurocircuits. <i>Annals of Neurology</i> , 2020, 88, 1178-1193.	5.3	52
38	Circuits, Networks, and Neuropsychiatric Disease: Transitioning From Anatomy to Imaging. <i>Biological Psychiatry</i> , 2020, 87, 318-327.	1.3	51
39	Dynamic connectivity modulates local activity in the core regions of the default-mode network. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 9713-9718.	7.1	49
40	Variable functional connectivity architecture of the preterm human brain: Impact of developmental cortical expansion and maturation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 1201-1206.	7.1	49
41	Nerve Growth Factor Decreases Soluble Guanylate Cyclase in Rat Pheochromocytoma PC12 Cells. <i>Journal of Biological Chemistry</i> , 1997, 272, 6038-6043.	3.4	48
42	Language Lateralization Represented by Spatiotemporal Mapping of Magnetoencephalography. <i>American Journal of Neuroradiology</i> , 2013, 34, 558-563.	2.4	44
43	Sample sizes and population differences in brain template construction. <i>NeuroImage</i> , 2020, 206, 116318.	4.2	44
44	Conventional antigen and superantigen may be coupled to distinct and cooperative T-cell activation pathways. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1991, 88, 8705-8709.	7.1	43
45	Automatic Sleep Stage Classification Based on Subthalamic Local Field Potentials. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2019, 27, 118-128.	4.9	43
46	Diffeomorphic functional brain surface alignment: Functional demons. <i>NeuroImage</i> , 2017, 156, 456-465.	4.2	41
47	A Recursive Algorithm for the Three-Dimensional Imaging of Brain Electric Activity: Shrinking LORETA-FOCUSS. <i>IEEE Transactions on Biomedical Engineering</i> , 2004, 51, 1794-1802.	4.2	40
48	Prefrontal connectomics: from anatomy to human imaging. <i>Neuropsychopharmacology</i> , 2022, 47, 20-40.	5.4	40
49	Dynamic statistical parametric mapping for analyzing ictal magnetoencephalographic spikes in patients with intractable frontal lobe epilepsy. <i>Epilepsy Research</i> , 2009, 85, 279-286.	1.6	39
50	Task-dependent reorganization of functional connectivity networks during visual semantic decision making. <i>Brain and Behavior</i> , 2014, 4, 877-885.	2.2	38
51	Robust Selectivity to Two-Object Images in Human Visual Cortex. <i>Current Biology</i> , 2010, 20, 872-879.	3.9	37
52	Neuromodulation effects of deep brain stimulation on beta rhythm: A longitudinal local field potential study. <i>Brain Stimulation</i> , 2020, 13, 1784-1792.	1.6	36
53	Functional Connectivity Architecture of the Human Brain. <i>Neuroscientist</i> , 2014, 20, 432-438.	3.5	35
54	Pontine Infarction: Diffusion-Tensor Imaging of Motor Pathways—A Longitudinal Study. <i>Radiology</i> , 2015, 274, 841-850.	7.3	34

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55	Real-Time Detection of Stealthy DDoS Attacks Using Time-Series Decomposition. , 2010, , .		32
56	Use of an Individual-Level Approach to Identify Cortical Connectivity Biomarkers in Obsessive-Compulsive Disorder. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , 2019, 4, 27-38.	1.5	32
57	Asymmetric projections of the arcuate fasciculus to the temporal cortex underlie lateralized language function in the human brain. <i>Frontiers in Neuroanatomy</i> , 2015, 9, 119.	1.7	31
58	Distinct Patterns of Temporal and Directional Connectivity among Intrinsic Networks in the Human Brain. <i>Journal of Neuroscience</i> , 2017, 37, 9667-9674.	3.6	31
59	Dysregulated Maturation of the Functional Connectome in Antipsychotic-Na ⁺ -ve, First-Episode Patients With Adolescent-Onset Schizophrenia. <i>Schizophrenia Bulletin</i> , 2019, 45, 689-697.	4.3	30
60	Functional connectome reorganization relates to post-stroke motor recovery and structural and functional disconnection. <i>NeuroImage</i> , 2021, 245, 118642.	4.2	29
61	Fast presurgical functional mapping using task-related intracranial high gamma activity. <i>Journal of Neurosurgery</i> , 2013, 119, 26-36.	1.6	27
62	Joint embedding: A scalable alignment to compare individuals in a connectivity space. <i>NeuroImage</i> , 2020, 222, 117232.	4.2	27
63	Individual Variability in Functional Organization of the Human and Monkey Auditory Cortex. <i>Cerebral Cortex</i> , 2021, 31, 2450-2465.	2.9	27
64	Deep Brain Stimulation Initiative: Toward Innovative Technology, New Disease Indications, and Approaches to Current and Future Clinical Challenges in Neuromodulation Therapy. <i>Frontiers in Neurology</i> , 2020, 11, 597451.	2.4	27
65	Dissociated multimodal hubs and seizures in temporal lobe epilepsy. <i>Annals of Clinical and Translational Neurology</i> , 2015, 2, 338-352.	3.7	25
66	Co-activation patterns across multiple tasks reveal robust anti-correlated functional networks. <i>NeuroImage</i> , 2021, 227, 117680.	4.2	25
67	Efficient Localization of Synchronous EEG Source Activities Using a Modified RAP-MUSIC Algorithm. <i>IEEE Transactions on Biomedical Engineering</i> , 2006, 53, 652-661.	4.2	24
68	Combining task-evoked and spontaneous activity to improve pre-operative brain mapping with fMRI. <i>NeuroImage</i> , 2016, 124, 714-723.	4.2	24
69	Structural correlates underlying accelerated magnetic stimulation in Parkinson's disease. <i>Human Brain Mapping</i> , 2021, 42, 1670-1681.	3.6	23
70	Functional connectivity underpinnings of electroconvulsive therapy-induced memory impairments in patients with depression. <i>Neuropsychopharmacology</i> , 2020, 45, 1579-1587.	5.4	22
71	Patterns of motor recovery and structural neuroplasticity after basal ganglia infarcts. <i>Neurology</i> , 2020, 95, e1174-e1187.	1.1	22
72	Anatomical and functional connectivity support the existence of a salience network node within the caudal ventrolateral prefrontal cortex. <i>ELife</i> , 2022, 11, .	6.0	22

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73	The Limbic-Prefrontal Network Modulated by Electroacupuncture at CV4 and CV12. Evidence-based Complementary and Alternative Medicine, 2012, 2012, 1-11.	1.2	20
74	Brain-Gut Axis Modulation of Acupuncture in Functional Dyspepsia: A Preliminary Resting-State fcMRI Study. Evidence-based Complementary and Alternative Medicine, 2015, 2015, 1-11.	1.2	20
75	Reconstructing lost BOLD signal in individual participants using deep machine learning. Nature Communications, 2020, 11, 5046.	12.8	20
76	Functional Disruption of Cerebello-thalamo-cortical Networks in Obsessive-Compulsive Disorder. Biological Psychiatry: Cognitive Neuroscience and Neuroimaging, 2020, 5, 438-447.	1.5	19
77	Distributed changes of the functional connectome in patients with glioblastoma. Scientific Reports, 2020, 10, 18312.	3.3	19
78	Negative effects of interictal spikes on theta rhythm in human temporal lobe epilepsy. Epilepsy and Behavior, 2018, 87, 207-212.	1.7	18
79	Functional disruption in prefrontal-striatal network in obsessive-compulsive disorder. Psychiatry Research - Neuroimaging, 2020, 300, 111081.	1.8	18
80	Transient impact of spike on theta rhythm in temporal lobe epilepsy. Experimental Neurology, 2013, 250, 136-142.	4.1	17
81	Individual-specific functional connectome biomarkers predict schizophrenia positive symptoms during adolescent brain maturation. Human Brain Mapping, 2021, 42, 1475-1484.	3.6	17
82	Reduced focal fiber collinearity in the cingulum bundle in adults with obsessive-compulsive disorder. Neuropsychopharmacology, 2019, 44, 1182-1188.	5.4	16
83	Identifying and characterizing projections from the subthalamic nucleus to the cerebellum in humans. NeuroImage, 2020, 210, 116573.	4.2	16
84	Dysfunctional Architecture Underlies White Matter Hyperintensities with and without Cognitive Impairment. Journal of Alzheimer's Disease, 2019, 71, 461-476.	2.6	15
85	Disrupted functional connectivity and activity in the white matter of the sensorimotor system in patients with pontine strokes. Journal of Magnetic Resonance Imaging, 2019, 49, 478-486.	3.4	15
86	Altered temporal, but intact spatial, features of transient network dynamics in psychosis. Molecular Psychiatry, 2021, 26, 2493-2503.	7.9	15
87	Efficient Electromagnetic Source Imaging With Adaptive Standardized LORETA/FOCUSS. IEEE Transactions on Biomedical Engineering, 2005, 52, 901-908.	4.2	14
88	Altered anterior-posterior connectivity through the arcuate fasciculus in temporal lobe epilepsy. Human Brain Mapping, 2016, 37, 4425-4438.	3.6	14
89	Individualized Cortical Parcellation Based on Diffusion MRI Tractography. Cerebral Cortex, 2020, 30, 3198-3208.	2.9	14
90	Dissociable Auditory Cortico-Cerebellar Pathways in the Human Brain Estimated by Intrinsic Functional Connectivity. Cerebral Cortex, 2021, 31, 2898-2912.	2.9	14

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91	Personalized <sc>fMRI</sc> Delineates Functional Regions Preserved within Brain Tumors. <i>Annals of Neurology</i> , 2022, 91, 353-366.	5.3	14
92	Decreased language laterality in tuberous sclerosis complex. <i>Epilepsy and Behavior</i> , 2012, 25, 36-41.	1.7	12
93	Human cortical networking by probabilistic and frequency-specific coupling. <i>NeuroImage</i> , 2020, 207, 116363.	4.2	12
94	The localization of focal heart activity via body surface potential measurements: tests in a heterogeneous torso phantom. <i>Physics in Medicine and Biology</i> , 2009, 54, 5395-5409.	3.0	11
95	Functional Mapping with Simultaneous MEG and EEG. <i>Journal of Visualized Experiments</i> , 2010, , .	0.3	11
96	Comparison of Mizoribine and Mycophenolate Mofetil With a Tacrolimus-Based Immunosuppressive Regimen in Living-Donor Kidney Transplantation Recipients: A Retrospective Study in China. <i>Transplantation Proceedings</i> , 2017, 49, 26-31.	0.6	11
97	Within-subject test-retest reliability of the atlas-based cortical volume measurement in the rat brain: A voxel-based morphometry study. <i>Journal of Neuroscience Methods</i> , 2018, 307, 46-52.	2.5	10
98	Delayed brain development of Rolandic epilepsy profiled by deep learning-based neuroanatomic imaging. <i>European Radiology</i> , 2021, 31, 9628-9637.	4.5	10
99	Diffuse cerebral language representation in tuberous sclerosis complex. <i>Epilepsy Research</i> , 2013, 104, 125-133.	1.6	9
100	Disentangling cortical functional connectivity strength and topography reveals divergent roles of genes and environment. <i>NeuroImage</i> , 2022, 247, 118770.	4.2	9
101	Design and implementation of bandpass delta-sigma modulators using half-delay integrators. <i>IEEE Transactions on Circuits and Systems Part 2: Express Briefs</i> , 1998, 45, 535-546.	2.2	7
102	Report of the Consensus Conference on Diagnostic Criteria of ALI/ARDS at high altitudes in Western China. <i>Intensive Care Medicine</i> , 2001, 27, 1539-1546.	8.2	7
103	A Rare Case of Pulmonary Coinfection by <i>Lichtheimia ramosa</i> and <i>Aspergillus fumigatus</i> in a Patient With Delayed Graft Function After Renal Transplantation. <i>Transplantation Proceedings</i> , 2019, 51, 551-555.	0.6	7
104	Personalized functional imaging identifies brain stimulation target for a patient with trauma-induced functional disruption. <i>Brain Stimulation</i> , 2022, 15, 53-56.	1.6	7
105	Foreign body venous transmigration to the heart. <i>QJM - Monthly Journal of the Association of Physicians</i> , 2014, 107, 743-745.	0.5	6
106	Individual-Specific Analysis for Psychoradiology. <i>Neuroimaging Clinics of North America</i> , 2020, 30, 45-51.	1.0	6
107	Clonal unresponsiveness results from an interaction between staphylococcal enterotoxin B and T cells expressing unexpected V β 2 elements. <i>International Immunology</i> , 1992, 4, 851-859.	4.0	5
108	EIT Images with Improved Spatial Resolution Using a Realistic Head Model. , 2006, 2006, 1134-7.		4

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109	Individualized Functional Connectome Identified Replicable Biomarkers for Dysphoric Symptoms in First-Episode Medication-Naïve Patients With Major Depressive Disorder. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , 2023, 8, 42-51.	1.5	4
110	The spatial resolution improvement of EIT images by GVSPM-FOCUSS algorithm. <i>Physiological Measurement</i> , 2004, 25, 209-225.	2.1	3
111	Spatial resolution improvement of 3D EIT images by the shrinking sLORETA-FOCUSS algorithm. <i>Physiological Measurement</i> , 2005, 26, S199-S208.	2.1	3
112	Folate hydrolase (FOLH1) is a novel target for antibody-based brachytherapy in Merkel cell carcinoma. <i>Skin Health and Disease</i> , 2021, 1, e9.	1.5	3
113	Tracking Positive and Negative Symptom Improvement in First-Episode Schizophrenia Treated with Risperidone Using Individual-Level Functional Connectivity. <i>Brain Connectivity</i> , 2022, 12, 454-464.	1.7	3
114	Fast cortical surface reconstruction from MRI using deep learning. <i>Brain Informatics</i> , 2022, 9, 6.	3.0	3
115	Myocardial crypts: role of modified two-chamber view. <i>QJM - Monthly Journal of the Association of Physicians</i> , 2015, 108, 139-140.	0.5	2
116	Subjective cognitive decline-related worries modulate the relationship between global amyloid load and gray matter volume in preclinical Alzheimer's disease. <i>Brain Imaging and Behavior</i> , 2021, , 1.	2.1	2
117	Localizing Synchronized Dipole Sources Using a Modified RAP-MUSIC Algorithm. , 0, , .		1
118	Transient aphasia induced by intermittent theta burst stimulation. <i>Brain Stimulation</i> , 2020, 13, 941-942.	1.6	1
119	Detecting Epileptic Regions Based on Global Brain Connectivity Patterns. <i>Lecture Notes in Computer Science</i> , 2013, 16, 98-105.	1.3	1
120	Rapid relief of severe freezing of gait after accelerated high-dose magnetic stimulations. <i>Brain Stimulation</i> , 2021, 14, 1573-1575.	1.6	1
121	Spatio-temporal analysis of P300 using ICA and SSLOFO. , 0, , .		0
122	Localization of FFA Using SSVEP-based Binocular Rivalry. , 2006, 2006, 1150-3.		0
123	Electro-acupuncture at different acupoints modulating the relative specific brain functional network. <i>Proceedings of SPIE</i> , 2010, , .	0.8	0
124	Tumor involvement of the left atrium and mitral valve: imaging features of intra-cardiac malignancy. <i>QJM - Monthly Journal of the Association of Physicians</i> , 2014, 107, 747-749.	0.5	0
125	A three-dimensional spatio-temporal EEG pattern analyzing system. <i>Progress in Natural Science: Materials International</i> , 2003, 13, 590.	4.4	0
126	SU-E-T-784: Automated VMAT Treatment Planning for Stage III Lung Cancer: How Does It Compare with IMRT?. <i>Medical Physics</i> , 2011, 38, 3671-3671.	3.0	0

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127	Simulation of the Absorbed Dose Estimation for a Commercially Available MicroCT Scanner. Medical Physics, 2015, 42, 3261-3261.	3.0	0
128	Assessing Reorganisation of Functional Connectivity in the Infant Brain. Lecture Notes in Computer Science, 2017, , 14-24.	1.3	0
129	EIT Images with Improved Spatial Resolution Using a Realistic Head Model. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2006, , .	0.5	0