

Hesheng Liu

List of Publications by Year in descending order

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129
papers

17,956
citations

76196

40
h-index

18606

119
g-index

140
all docs

140
docs citations

140
times ranked

17950
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	1.1	4
2	Prefrontal connectomics: from anatomy to human imaging. <i>Neuropsychopharmacology</i> , 2022, 47, 20-40.	2.8	40
3	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.	0.8	3
4	Personalized functional imaging identifies brain stimulation target for a patient with trauma-induced functional disruption. <i>Brain Stimulation</i> , 2022, 15, 53-56.	0.7	7
5	Disentangling cortical functional connectivity strength and topography reveals divergent roles of genes and environment. <i>NeuroImage</i> , 2022, 247, 118770.	2.1	9
6	Personalized <i>fmRI</i> Delineates Functional Regions Preserved within Brain Tumors. <i>Annals of Neurology</i> , 2022, 91, 353-366.	2.8	14
7	Fast cortical surface reconstruction from MRI using deep learning. <i>Brain Informatics</i> , 2022, 9, 6.	1.8	3
8	Anatomical and functional connectivity support the existence of a salience network node within the caudal ventrolateral prefrontal cortex. <i>ELife</i> , 2022, 11, .	2.8	22
9	Structural correlates underlying accelerated magnetic stimulation in Parkinson's disease. <i>Human Brain Mapping</i> , 2021, 42, 1670-1681.	1.9	23
10	Individual Variability in Functional Organization of the Human and Monkey Auditory Cortex. <i>Cerebral Cortex</i> , 2021, 31, 2450-2465.	1.6	27
11	Individual-specific functional connectome biomarkers predict schizophrenia positive symptoms during adolescent brain maturation. <i>Human Brain Mapping</i> , 2021, 42, 1475-1484.	1.9	17
12	Folate hydrolase (FOLH1) is a novel target for antibody-based brachytherapy in Merkel cell carcinoma. <i>Skin Health and Disease</i> , 2021, 1, e9.	0.7	3
13	Large-Scale Functional Brain Network Architecture Changes Associated With Trauma-Related Dissociation. <i>American Journal of Psychiatry</i> , 2021, 178, 165-173.	4.0	57
14	Altered temporal, but intact spatial, features of transient network dynamics in psychosis. <i>Molecular Psychiatry</i> , 2021, 26, 2493-2503.	4.1	15
15	Dissociable Auditory Cortico-Cerebellar Pathways in the Human Brain Estimated by Intrinsic Functional Connectivity. <i>Cerebral Cortex</i> , 2021, 31, 2898-2912.	1.6	14
16	Co-activation patterns across multiple tasks reveal robust anti-correlated functional networks. <i>NeuroImage</i> , 2021, 227, 117680.	2.1	25
17	Delayed brain development of Rolandic epilepsy profiled by deep learning-based neuroanatomic imaging. <i>European Radiology</i> , 2021, 31, 9628-9637.	2.3	10
18	Functional connectome reorganization relates to post-stroke motor recovery and structural and functional disconnection. <i>NeuroImage</i> , 2021, 245, 118642.	2.1	29

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19	Rapid relief of severe freezing of gait after accelerated high-dose magnetic stimulations. <i>Brain Stimulation</i> , 2021, 14, 1573-1575.	0.7	1
20	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.	1.1	2
21	Individual-specific functional connectivity markers track dimensional and categorical features of psychotic illness. <i>Molecular Psychiatry</i> , 2020, 25, 2119-2129.	4.1	93
22	Sample sizes and population differences in brain template construction. <i>NeuroImage</i> , 2020, 206, 116318.	2.1	44
23	Circuits, Networks, and Neuropsychiatric Disease: Transitioning From Anatomy to Imaging. <i>Biological Psychiatry</i> , 2020, 87, 318-327.	0.7	51
24	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.	3.3	49
25	Human cortical networking by probabilistic and frequency-specific coupling. <i>NeuroImage</i> , 2020, 207, 116363.	2.1	12
26	Individual-Specific Analysis for Psychoradiology. <i>Neuroimaging Clinics of North America</i> , 2020, 30, 45-51.	0.5	6
27	Functional Disruption of Cerebello-thalamo-cortical Networks in Obsessive-Compulsive Disorder. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , 2020, 5, 438-447.	1.1	19
28	Individualized Cortical Parcellation Based on Diffusion MRI Tractography. <i>Cerebral Cortex</i> , 2020, 30, 3198-3208.	1.6	14
29	Neuromodulation effects of deep brain stimulation on beta rhythm: A longitudinal local field potential study. <i>Brain Stimulation</i> , 2020, 13, 1784-1792.	0.7	36
30	Reconstructing lost BOLD signal in individual participants using deep machine learning. <i>Nature Communications</i> , 2020, 11, 5046.	5.8	20
31	Joint embedding: A scalable alignment to compare individuals in a connectivity space. <i>NeuroImage</i> , 2020, 222, 117232.	2.1	27
32	Distributed changes of the functional connectome in patients with glioblastoma. <i>Scientific Reports</i> , 2020, 10, 18312.	1.6	19
33	Subthalamic Nucleus Deep Brain Stimulation Modulates 2 Distinct Neurocircuits. <i>Annals of Neurology</i> , 2020, 88, 1178-1193.	2.8	52
34	Transient aphasia induced by intermittent theta burst stimulation. <i>Brain Stimulation</i> , 2020, 13, 941-942.	0.7	1
35	Functional connectivity underpinnings of electroconvulsive therapy-induced memory impairments in patients with depression. <i>Neuropsychopharmacology</i> , 2020, 45, 1579-1587.	2.8	22
36	Patterns of motor recovery and structural neuroplasticity after basal ganglia infarcts. <i>Neurology</i> , 2020, 95, e1174-e1187.	1.5	22

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37	Resting-state fMRI detects alterations in whole brain connectivity related to tumor biology in glioma patients. <i>Neuro-Oncology</i> , 2020, 22, 1388-1398.	0.6	60
38	Identifying and characterizing projections from the subthalamic nucleus to the cerebellum in humans. <i>NeuroImage</i> , 2020, 210, 116573.	2.1	16
39	Functional disruption in prefrontal-striatal network in obsessive-compulsive disorder. <i>Psychiatry Research - Neuroimaging</i> , 2020, 300, 111081.	0.9	18
40	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.	1.1	27
41	Spatial Topography of Individual-Specific Cortical Networks Predicts Human Cognition, Personality, and Emotion. <i>Cerebral Cortex</i> , 2019, 29, 2533-2551.	1.6	430
42	Dysregulated Maturation of the Functional Connectome in Antipsychotic-Naïve, First-Episode Patients With Adolescent-Onset Schizophrenia. <i>Schizophrenia Bulletin</i> , 2019, 45, 689-697.	2.3	30
43	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.	1.1	32
44	Dysfunctional Architecture Underlies White Matter Hyperintensities with and without Cognitive Impairment. <i>Journal of Alzheimer's Disease</i> , 2019, 71, 461-476.	1.2	15
45	Network localization of cervical dystonia based on causal brain lesions. <i>Brain</i> , 2019, 142, 1660-1674.	3.7	160
46	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.	0.3	7
47	Performing group-level functional image analyses based on homologous functional regions mapped in individuals. <i>PLoS Biology</i> , 2019, 17, e2007032.	2.6	84
48	Reduced focal fiber collinearity in the cingulum bundle in adults with obsessive-compulsive disorder. <i>Neuropsychopharmacology</i> , 2019, 44, 1182-1188.	2.8	16
49	Automatic Sleep Stage Classification Based on Subthalamic Local Field Potentials. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2019, 27, 118-128.	2.7	43
50	Disrupted functional connectivity and activity in the white matter of the sensorimotor system in patients with pontine strokes. <i>Journal of Magnetic Resonance Imaging</i> , 2019, 49, 478-486.	1.9	15
51	The associations of earlier trauma exposures and history of mental disorders with PTSD after subsequent traumas. <i>Molecular Psychiatry</i> , 2018, 23, 1892-1899.	4.1	52
52	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.	1.3	10
53	Negative effects of interictal spikes on theta rhythm in human temporal lobe epilepsy. <i>Epilepsy and Behavior</i> , 2018, 87, 207-212.	0.9	18
54	Diffeomorphic functional brain surface alignment: Functional demons. <i>NeuroImage</i> , 2017, 156, 456-465.	2.1	41

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55	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.	0.3	11
56	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.	3.3	49
57	Distinct Patterns of Temporal and Directional Connectivity among Intrinsic Networks in the Human Brain. <i>Journal of Neuroscience</i> , 2017, 37, 9667-9674.	1.7	31
58	Assessing Reorganisation of Functional Connectivity in the Infant Brain. <i>Lecture Notes in Computer Science</i> , 2017, , 14-24.	1.0	0
59	State-dependent variability of dynamic functional connectivity between frontoparietal and default networks relates to cognitive flexibility. <i>Neuroscience</i> , 2016, 339, 12-21.	1.1	111
60	Altered anterior-posterior connectivity through the arcuate fasciculus in temporal lobe epilepsy. <i>Human Brain Mapping</i> , 2016, 37, 4425-4438.	1.9	14
61	A human brain network derived from coma-causing brainstem lesions. <i>Neurology</i> , 2016, 87, 2427-2434.	1.5	187
62	Combining task-evoked and spontaneous activity to improve pre-operative brain mapping with fMRI. <i>NeuroImage</i> , 2016, 124, 714-723.	2.1	24
63	Identifying Shared Brain Networks in Individuals by Decoupling Functional and Anatomical Variability. <i>Cerebral Cortex</i> , 2016, 26, 4004-4014.	1.6	68
64	Dissociated multimodal hubs and seizures in temporal lobe epilepsy. <i>Annals of Clinical and Translational Neurology</i> , 2015, 2, 338-352.	1.7	25
65	Reliability correction for functional connectivity: Theory and implementation. <i>Human Brain Mapping</i> , 2015, 36, 4664-4680.	1.9	71
66	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.	0.9	31
67	Brain-Gut Axis Modulation of Acupuncture in Functional Dyspepsia: A Preliminary Resting-State fcMRI Study. <i>Evidence-based Complementary and Alternative Medicine</i> , 2015, 2015, 1-11.	0.5	20
68	Myocardial crypts: role of modified two-chamber view. <i>QJM - Monthly Journal of the Association of Physicians</i> , 2015, 108, 139-140.	0.2	2
69	Pontine Infarction: Diffusion-Tensor Imaging of Motor Pathways—A Longitudinal Study. <i>Radiology</i> , 2015, 274, 841-850.	3.6	34
70	Abnormalities in Hemispheric Specialization of Caudate Nucleus Connectivity in Schizophrenia. <i>JAMA Psychiatry</i> , 2015, 72, 552.	6.0	63
71	Network localization of neurological symptoms from focal brain lesions. <i>Brain</i> , 2015, 138, 3061-3075.	3.7	364
72	Parcellating cortical functional networks in individuals. <i>Nature Neuroscience</i> , 2015, 18, 1853-1860.	7.1	429

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73	SUÀ€À€À€85: Absorbed Dose Estimation for a Commercially Available MicroCT Scanner. Medical Physics, 2015, 42, 3261-3261.	1.6	0
74	Neurobiological basis of head motion in brain imaging. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 6058-6062.	3.3	265
75	Foreign body venous transmigration to the heart. QJM - Monthly Journal of the Association of Physicians, 2014, 107, 743-745.	0.2	6
76	TaskÀ€dependent reorganization of functional connectivity networks during visual semantic decision making. Brain and Behavior, 2014, 4, 877-885.	1.0	38
77	Functional Connectivity Architecture of the Human Brain. Neuroscientist, 2014, 20, 432-438.	2.6	35
78	Functional Specialization in the Human Brain Estimated By Intrinsic Hemispheric Interaction. Journal of Neuroscience, 2014, 34, 12341-12352.	1.7	120
79	Resting-state networks link invasive and noninvasive brain stimulation across diverse psychiatric and neurological diseases. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E4367-75.	3.3	486
80	Tumor involvement of the left atrium and mitral valve: imaging features of intra-cardiac malignancy. QJM - Monthly Journal of the Association of Physicians, 2014, 107, 747-749.	0.2	0
81	Transient impact of spike on theta rhythm in temporal lobe epilepsy. Experimental Neurology, 2013, 250, 136-142.	2.0	17
82	S1 is Associated with Chronic Low Back Pain: A Functional and Structural MRI Study. Molecular Pain, 2013, 9, 1744-8069-9-43.	1.0	98
83	Diffuse cerebral language representation in tuberous sclerosis complex. Epilepsy Research, 2013, 104, 125-133.	0.8	9
84	Individual Variability in Functional Connectivity Architecture of the Human Brain. Neuron, 2013, 77, 586-595.	3.8	949
85	Identification of reproducible individualized targets for treatment of depression with TMS based on intrinsic connectivity. NeuroImage, 2013, 66, 151-160.	2.1	275
86	Fast presurgical functional mapping using task-related intracranial high gamma activity. Journal of Neurosurgery, 2013, 119, 26-36.	0.9	27
87	Language Lateralization Represented by Spatiotemporal Mapping of Magnetoencephalography. American Journal of Neuroradiology, 2013, 34, 558-563.	1.2	44
88	Cerebellar asymmetry and its relation to cerebral asymmetry estimated by intrinsic functional connectivity. Journal of Neurophysiology, 2013, 109, 46-57.	0.9	98
89	Detecting Epileptic Regions Based on Global Brain Connectivity Patterns. Lecture Notes in Computer Science, 2013, 16, 98-105.	1.0	1
90	The Limbic-Prefrontal Network Modulated by Electroacupuncture at CV4 and CV12. Evidence-based Complementary and Alternative Medicine, 2012, 2012, 1-11.	0.5	20

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91	Decreased language laterality in tuberous sclerosis complex. <i>Epilepsy and Behavior</i> , 2012, 25, 36-41.	0.9	12
92	Stepwise Connectivity of the Modal Cortex Reveals the Multimodal Organization of the Human Brain. <i>Journal of Neuroscience</i> , 2012, 32, 10649-10661.	1.7	253
93	The organization of the human cerebral cortex estimated by intrinsic functional connectivity. <i>Journal of Neurophysiology</i> , 2011, 106, 1125-1165.	0.9	6,420
94	Localization of focal epileptic discharges using functional connectivity magnetic resonance imaging. <i>Journal of Neurosurgery</i> , 2011, 114, 1693-1697.	0.9	80
95	The Dynamics of Cortical and Hippocampal Atrophy in Alzheimer Disease. <i>Archives of Neurology</i> , 2011, 68, 1040.	4.9	267
96	Focal Pontine Lesions Provide Evidence That Intrinsic Functional Connectivity Reflects Polysynaptic Anatomical Pathways. <i>Journal of Neuroscience</i> , 2011, 31, 15065-15071.	1.7	118
97	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.	1.6	0
98	Functional Mapping with Simultaneous MEG and EEG. <i>Journal of Visualized Experiments</i> , 2010, , .	0.2	11
99	Robust Selectivity to Two-Object Images in Human Visual Cortex. <i>Current Biology</i> , 2010, 20, 872-879.	1.8	37
100	The Organization of Local and Distant Functional Connectivity in the Human Brain. <i>PLoS Computational Biology</i> , 2010, 6, e1000808.	1.5	362
101	Electro-acupuncture at different acupoints modulating the relative specific brain functional network. <i>Proceedings of SPIE</i> , 2010, , .	0.8	0
102	Real-Time Detection of Stealthy DDoS Attacks Using Time-Series Decomposition. , 2010, , .		32
103	Propagation of epileptic spikes reconstructed from spatiotemporal magnetoencephalographic and electroencephalographic source analysis. <i>NeuroImage</i> , 2010, 50, 217-222.	2.1	62
104	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.	3.3	333
105	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.	1.7	2,576
106	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.	1.6	11
107	Task-free presurgical mapping using functional magnetic resonance imaging intrinsic activity. <i>Journal of Neurosurgery</i> , 2009, 111, 746-754.	0.9	117
108	Dynamic statistical parametric mapping for analyzing ictal magnetoencephalographic spikes in patients with intractable frontal lobe epilepsy. <i>Epilepsy Research</i> , 2009, 85, 279-286.	0.8	39

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109	Timing, Timing, Timing: Fast Decoding of Object Information from Intracranial Field Potentials in Human Visual Cortex. <i>Neuron</i> , 2009, 62, 281-290.	3.8	353
110	How Working Memory and the Cerebellum Collaborate to Produce Creativity and Innovation. <i>Creativity Research Journal</i> , 2007, 19, 1-18.	1.7	109
111	Efficient Localization of Synchronous EEG Source Activities Using a Modified RAP-MUSIC Algorithm. <i>IEEE Transactions on Biomedical Engineering</i> , 2006, 53, 652-661.	2.5	24
112	EIT Images with Improved Spatial Resolution Using a Realistic Head Model. , 2006, 2006, 1134-7.		4
113	Localization of FFA Using SSVEP-based Binocular Rivalry. , 2006, 2006, 1150-3.		0
114	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
115	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.	2.5	71
116	Spatial resolution improvement of 3D EIT images by the shrinking sLORETA-FOCUSS algorithm. <i>Physiological Measurement</i> , 2005, 26, S199-S208.	1.2	3
117	Efficient Electromagnetic Source Imaging With Adaptive Standardized LORETA/FOCUSS. <i>IEEE Transactions on Biomedical Engineering</i> , 2005, 52, 901-908.	2.5	14
118	The spatial resolution improvement of EIT images by GVSPM-FOCUSS algorithm. <i>Physiological Measurement</i> , 2004, 25, 209-225.	1.2	3
119	Classification of Single-Trial Electroencephalogram During Finger Movement. <i>IEEE Transactions on Biomedical Engineering</i> , 2004, 51, 1019-1025.	2.5	70
120	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.	2.5	40
121	A three-dimensional spatio-temporal EEG pattern analyzing system. <i>Progress in Natural Science: Materials International</i> , 2003, 13, 590.	1.8	0
122	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.	3.9	7
123	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.	1.1	492
124	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.	2.3	7
125	Nerve Growth Factor Decreases Soluble Guanylate Cyclase in Rat Pheochromocytoma PC12 Cells. <i>Journal of Biological Chemistry</i> , 1997, 272, 6038-6043.	1.6	48
126	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.	1.8	5

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127	Conventional antigen and superantigen may be coupled to distinct and cooperative T-cell activation pathways.. Proceedings of the National Academy of Sciences of the United States of America, 1991, 88, 8705-8709.	3.3	43
128	Localizing Synchronized Dipole Sources Using a Modified RAP-MUSIC Algorithm. , 0, , .		1
129	Spatio-temporal analysis of P300 using ICA and SSLOFO. , 0, , .		0