

Hengyi Rao

List of Publications by Year in descending order

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Version: 2024-02-01

114
papers

7,297
citations

76326

40
h-index

58581

82
g-index

116
all docs

116
docs citations

116
times ranked

10170
citing authors

#	ARTICLE	IF	CITATIONS
1	Neurocognitive Consequences of Sleep Deprivation. <i>Seminars in Neurology</i> , 2009, 29, 320-339.	1.4	1,127
2	Perfusion functional MRI reveals cerebral blood flow pattern under psychological stress. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 17804-17809.	7.1	450
3	Empirical optimization of ASL data analysis using an ASL data processing toolbox: ASLtbx. <i>Magnetic Resonance Imaging</i> , 2008, 26, 261-269.	1.8	406
4	Imaging brain fatigue from sustained mental workload: An ASL perfusion study of the time-on-task effect. <i>NeuroImage</i> , 2010, 49, 3426-3435.	4.2	330
5	Gender difference in neural response to psychological stress. <i>Social Cognitive and Affective Neuroscience</i> , 2007, 2, 227-239.	3.0	316
6	Neural correlates of voluntary and involuntary risk taking in the human brain: An fMRI Study of the Balloon Analog Risk Task (BART). <i>NeuroImage</i> , 2008, 42, 902-910.	4.2	304
7	Circadian Rhythms, Sleep Deprivation, and Human Performance. <i>Progress in Molecular Biology and Translational Science</i> , 2013, 119, 155-190.	1.7	285
8	Applications of arterial spin labeled MRI in the brain. <i>Journal of Magnetic Resonance Imaging</i> , 2012, 35, 1026-1037.	3.4	272
9	Arterial spin-labeled perfusion MRI in basic and clinical neuroscience. <i>Current Opinion in Neurology</i> , 2009, 22, 348-355.	3.6	188
10	How Acute Total Sleep Loss Affects the Attending Brain: A Meta-Analysis of Neuroimaging Studies. <i>Sleep</i> , 2015, 38, 233-240.	1.1	174
11	Prefrontal transcranial direct current stimulation alters activation and connectivity in cortical and subcortical reward systems: A tDCS-fMRI study. <i>Human Brain Mapping</i> , 2014, 35, 3673-3686.	3.6	157
12	Early parental care is important for hippocampal maturation: Evidence from brain morphology in humans. <i>NeuroImage</i> , 2010, 49, 1144-1150.	4.2	156
13	Sleep deprivation and neurobehavioral dynamics. <i>Current Opinion in Neurobiology</i> , 2013, 23, 854-863.	4.2	148
14	Decreased ventral striatal activity with impulse control disorders in Parkinson's disease. <i>Movement Disorders</i> , 2010, 25, 1660-1669.	3.9	138
15	Genetic Variation in Serotonin Transporter Alters Resting Brain Function in Healthy Individuals. <i>Biological Psychiatry</i> , 2007, 62, 600-606.	1.3	131
16	Contributions of the Visual Ventral Pathway to Long-Range Apparent Motion. <i>Science</i> , 2003, 299, 417-420.	12.6	124
17	Multivariate examination of brain abnormality using both structural and functional MRI. <i>NeuroImage</i> , 2007, 36, 1189-1199.	4.2	121
18	Cerebral blood flow changes associated with different meditation practices and perceived depth of meditation. <i>Psychiatry Research - Neuroimaging</i> , 2011, 191, 60-67.	1.8	96

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19	Meta-Analysis of the Antidepressant Effects of Acute Sleep Deprivation. <i>Journal of Clinical Psychiatry</i> , 2017, 78, e1020-e1034.	2.2	95
20	Altered Resting Brain Function and Structure in Professional Badminton Players. <i>Brain Connectivity</i> , 2012, 2, 225-233.	1.7	93
21	Continuous ASL perfusion fMRI investigation of higher cognition: Quantification of tonic CBF changes during sustained attention and working memory tasks. <i>NeuroImage</i> , 2006, 31, 376-385.	4.2	77
22	The Effects of Chronic Cigarette Smoking on Gray Matter Volume: Influence of Sex. <i>PLoS ONE</i> , 2014, 9, e104102.	2.5	76
23	First-Episode Medication-Naive Major Depressive Disorder Is Associated with Altered Resting Brain Function in the Affective Network. <i>PLoS ONE</i> , 2014, 9, e85241.	2.5	75
24	Altered Resting Cerebral Blood Flow in Adolescents With in Utero Cocaine Exposure Revealed by Perfusion Functional MRI. <i>Pediatrics</i> , 2007, 120, e1245-e1254.	2.1	70
25	Altered salience network connectivity predicts macronutrient intake after sleep deprivation. <i>Scientific Reports</i> , 2015, 5, 8215.	3.3	64
26	Risk-taking and Impulsive Behaviors: a Comparative Assessment of Three Tasks. <i>Social Behavior and Personality</i> , 2013, 41, 477-486.	0.6	63
27	Concurrent CBF and CMRGluc changes during human brain activation by combined fMRI-PET scanning. <i>NeuroImage</i> , 2005, 28, 500-506.	4.2	62
28	State-Independent and Dependent Neural Responses to Psychosocial Stress in Current and Remitted Depression. <i>American Journal of Psychiatry</i> , 2017, 174, 971-979.	7.2	60
29	The neural basis of motor sequencing: An fMRI study of healthy subjects. <i>Neuroscience Letters</i> , 2006, 398, 189-194.	2.1	59
30	Effects of Heavy In Utero Cocaine Exposure on Adolescent Caudate Morphology. <i>Pediatric Neurology</i> , 2007, 37, 275-279.	2.1	58
31	Changes in Cerebral Blood Flow and Anxiety Associated with an 8-week Mindfulness Programme in Women with Breast Cancer. <i>Stress and Health</i> , 2012, 28, 397-407.	2.6	58
32	Serotonin transporter genotype modulates amygdala activity during mood regulation. <i>Social Cognitive and Affective Neuroscience</i> , 2010, 5, 1-10.	3.0	54
33	Using perfusion fMRI to measure continuous changes in neural activity with learning. <i>Brain and Cognition</i> , 2006, 60, 262-271.	1.8	53
34	Disrupted resting-state attentional networks in T2DM patients. <i>Scientific Reports</i> , 2015, 5, 11148.	3.3	50
35	Resting spontaneous activity in the default mode network predicts performance decline during prolonged attention workload. <i>NeuroImage</i> , 2015, 120, 323-330.	4.2	50
36	Real and hypothetical monetary rewards modulate risk taking in the brain. <i>Scientific Reports</i> , 2016, 6, 29520.	3.3	47

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37	A regulation role of the prefrontal cortex in the fist-edge-palm task: Evidence from functional connectivity analysis. <i>NeuroImage</i> , 2008, 41, 1345-1351.	4.2	45
38	Cannabis, cigarettes, and their co-occurring use: Disentangling differences in default mode network functional connectivity. <i>Drug and Alcohol Dependence</i> , 2015, 153, 116-123.	3.2	45
39	Remifentanyl-Induced Cerebral Blood Flow Effects in Normal Humans: Dose and ApoE Genotype. <i>Anesthesia and Analgesia</i> , 2007, 105, 167-175.	2.2	45
40	Resting State Brain Function Analysis Using Concurrent BOLD in ASL Perfusion fMRI. <i>PLoS ONE</i> , 2013, 8, e65884.	2.5	45
41	Two nights of recovery sleep restores hippocampal connectivity but not episodic memory after total sleep deprivation. <i>Scientific Reports</i> , 2020, 10, 8774.	3.3	42
42	Cannabis, Cigarettes, and Their Co-Occurring Use: Disentangling Differences in Gray Matter Volume. <i>International Journal of Neuropsychopharmacology</i> , 2015, 18, pyv061.	2.1	39
43	The role of human parietal cortex in attention networks. <i>Brain</i> , 2003, 127, 650-659.	7.6	38
44	Differential effects of real versus hypothetical monetary reward magnitude on risk-taking behavior and brain activity. <i>Scientific Reports</i> , 2018, 8, 3712.	3.3	38
45	Specific Changes in Brain Activity during Urgency in Women with Overactive Bladder after Successful Sacral Neuromodulation: A Functional Magnetic Resonance Imaging Study. <i>Journal of Urology</i> , 2018, 200, 382-388.	0.4	38
46	Imaging brain activity during natural vision using CASL perfusion fMRI. <i>Human Brain Mapping</i> , 2007, 28, 593-601.	3.6	34
47	Classifying and characterizing nicotine use disorder with high accuracy using machine learning and resting-state fMRI. <i>Addiction Biology</i> , 2019, 24, 811-821.	2.6	34
48	Blood Pressure is Associated With Cerebral Blood Flow Alterations in Patients With T2DM as Revealed by Perfusion Functional MRI. <i>Medicine (United States)</i> , 2015, 94, e2231.	1.0	33
49	A new likelihood ratio metric for the psychomotor vigilance test and its sensitivity to sleep loss. <i>Journal of Sleep Research</i> , 2015, 24, 702-713.	3.2	31
50	Spatiotemporal activation of the two visual pathways in form discrimination and spatial location: A brain mapping study. <i>Human Brain Mapping</i> , 2003, 18, 79-89.	3.6	30
51	A brain stress test: Cerebral perfusion during memory encoding in mild cognitive impairment. <i>NeuroImage: Clinical</i> , 2016, 11, 388-397.	2.7	30
52	Engagement of the prefrontal cortex in representational momentum: an fMRI study. <i>NeuroImage</i> , 2004, 23, 98-103.	4.2	29
53	Insulin Resistance-Associated Interhemispheric Functional Connectivity Alterations in T2DM: A Resting-State fMRI Study. <i>BioMed Research International</i> , 2015, 2015, 1-9.	1.9	29
54	Imbalanced spontaneous brain activity in orbitofrontal-insular circuits in individuals with cognitive vulnerability to depression. <i>Journal of Affective Disorders</i> , 2016, 198, 56-63.	4.1	27

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55	Brain activation in response to bladder filling in healthy adults: An activation likelihood estimation meta-analysis of neuroimaging studies. <i>Neurourology and Urodynamics</i> , 2017, 36, 960-965.	1.5	25
56	Serotonin transporter genotype modulates functional connectivity between amygdala and PCC/PCu during mood recovery. <i>Frontiers in Human Neuroscience</i> , 2013, 7, 704.	2.0	24
57	Hyper-resting brain entropy within chronic smokers and its moderation by Sex. <i>Scientific Reports</i> , 2016, 6, 29435.	3.3	24
58	Test-retest reliability of brain responses to risk-taking during the balloon analogue risk task. <i>NeuroImage</i> , 2020, 209, 116495.	4.2	24
59	Moral competence and brain connectivity: A resting-state fMRI study. <i>NeuroImage</i> , 2016, 141, 408-415.	4.2	23
60	A Pilot Study of a Mindfulness-Based Art Therapy Intervention in Outpatients With Cancer. <i>American Journal of Hospice and Palliative Medicine</i> , 2018, 35, 1195-1200.	1.4	22
61	Brain activation during the voiding phase of micturition in healthy adults: A meta-analysis of neuroimaging studies. <i>Clinical Anatomy</i> , 2019, 32, 13-19.	2.7	22
62	The Role of Medial Frontal Cortex in Action Anticipation in Professional Badminton Players. <i>Frontiers in Psychology</i> , 2016, 7, 1817.	2.1	21
63	Electrical Stimulation over Bilateral Occipito-Temporal Regions Reduces N170 in the Right Hemisphere and the Composite Face Effect. <i>PLoS ONE</i> , 2014, 9, e115772.	2.5	19
64	Serotonin transporter genotype modulates the association between depressive symptoms and amygdala activity among psychiatrically healthy adults. <i>Psychiatry Research - Neuroimaging</i> , 2011, 193, 161-167.	1.8	17
65	Sleep deprivation enhances inter-stimulus interval effect on vigilant attention performance. <i>Sleep</i> , 2018, 41, .	1.1	17
66	Neural Correlates of Post-Conventional Moral Reasoning: A Voxel-Based Morphometry Study. <i>PLoS ONE</i> , 2015, 10, e0122914.	2.5	16
67	Post-conventional moral reasoning is associated with increased ventral striatal activity at rest and during task. <i>Scientific Reports</i> , 2017, 7, 7105.	3.3	15
68	Regions of the brain activated in bladder filling vs rectal distention in healthy adults: A meta-analysis of neuroimaging studies. <i>Neurourology and Urodynamics</i> , 2020, 39, 58-65.	1.5	15
69	High sensation seeking is associated with behavioral and neural insensitivity to increased negative outcomes during decision-making under uncertainty. <i>Cognitive, Affective and Behavioral Neuroscience</i> , 2019, 19, 1352-1363.	2.0	13
70	Altered spontaneous brain activity in obsessive-compulsive personality disorder. <i>Comprehensive Psychiatry</i> , 2020, 96, 152144.	3.1	13
71	Impaired Vigilant Attention Partly Accounts for Inhibition Control Deficits After Total Sleep Deprivation and Partial Sleep Restriction. <i>Nature and Science of Sleep</i> , 2021, Volume 13, 1545-1560.	2.7	13
72	Real or Hypothetical Monetary Rewards Modulates Risk Taking Behavior. <i>Acta Psychologica Sinica</i> , 2013, 45, 874-886.	0.7	13

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73	Strategies for reducing large fMRI data sets for independent component analysis. <i>Magnetic Resonance Imaging</i> , 2006, 24, 591-596.	1.8	12
74	Brain substrates of early (4 h) cigarette abstinence: Identification of treatment targets. <i>Drug and Alcohol Dependence</i> , 2018, 182, 78-85.	3.2	12
75	Cerebral metabolic rate of oxygen during transition from wakefulness to sleep measured with high temporal resolution OxFLOW MRI with concurrent EEG. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2021, 41, 780-792.	4.3	12
76	Cerebellum anatomy predicts individual risk-taking behavior and risk tolerance. <i>NeuroImage</i> , 2022, 254, 119148.	4.2	12
77	Risk choice and emotional experience: a multi-level comparison between active and passive decision-making. <i>Journal of Risk Research</i> , 2019, 22, 1239-1266.	2.6	11
78	Impulse control differentiates Internet gaming disorder from non-disordered but heavy Internet gaming use: Evidence from multiple behavioral and multimodal neuroimaging data. <i>Computers in Human Behavior</i> , 2022, 130, 107184.	8.5	11
79	Volume, density, and thickness brain abnormalities in mild cognitive impairment: an ALE meta-analysis controlling for age and education.. <i>Brain Imaging and Behavior</i> , 2022, 16, 2335-2352.	2.1	11
80	Diagnosis of Brain Abnormality Using both Structural and Functional MR Images. , 2006, 2006, 1044-7.		10
81	Pilot study of the effect of religious symbols on brain function: Association with measures of religiosity.. <i>Spirituality in Clinical Practice</i> , 2014, 1, 82-98.	1.0	10
82	The neural mechanisms of immediate and follow-up of the treatment effect of hypnosis on smoking craving. <i>Brain Imaging and Behavior</i> , 2020, 14, 1487-1497.	2.1	10
83	Neural Mechanisms Underlying Breast Cancer Related Fatigue: A Systematic Review of Neuroimaging Studies. <i>Frontiers in Neuroscience</i> , 2021, 15, 735945.	2.8	9
84	Effects of facial trustworthiness and gender on decision making in the Ultimatum Game. <i>Social Behavior and Personality</i> , 2018, 46, 499-516.	0.6	8
85	Agreeableness modulates group member risky decision-making behavior and brain activity. <i>NeuroImage</i> , 2019, 202, 116100.	4.2	8
86	Functional and Symbolic Values of Cloud Terminals: A Study of User Acceptance and Purchasing Behaviors. <i>International Journal of Information Technology and Decision Making</i> , 2014, 13, 603-621.	3.9	7
87	Exploration of the influence of body mass index on intra-network resting-state connectivity in chronic cigarette smokers. <i>Drug and Alcohol Dependence</i> , 2021, 227, 108911.	3.2	7
88	Lifestyle Modification in Blood Pressure Study II (LIMBS): Study protocol of a randomized controlled trial assessing the efficacy of a 24week structured yoga program versus lifestyle modification on blood pressure reduction. <i>Contemporary Clinical Trials</i> , 2013, 36, 32-40.	1.8	6
89	A Functional Polymorphism of the MAOA Gene Modulates Spontaneous Brain Activity in Pons. <i>BioMed Research International</i> , 2014, 2014, 1-6.	1.9	6
90	Test-retest reliability of cerebral blood flow for assessing brain function at rest and during a vigilance task. <i>NeuroImage</i> , 2019, 193, 157-166.	4.2	6

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91	Hypothetical Versus Real Monetary Reward Decrease the Behavioral and Affective Effects in the Balloon Analogue Risk Task. <i>Experimental Psychology</i> , 2019, 66, 221-230.	0.7	6
92	ASL Imaging of Brain Function Changes During Sleep Restriction. <i>Sleep</i> , 2012, 35, 1027-1028.	1.1	5
93	Baclofen-induced Changes in the Resting Brain Modulate Smoking Cue Reactivity: A Double-blind Placebo-controlled Functional Magnetic Resonance Imaging Study in Cigarette Smokers. <i>Clinical Psychopharmacology and Neuroscience</i> , 2020, 18, 289-302.	2.0	5
94	Effects of Badminton Expertise on Representational Momentum: A Combination of Cross-Sectional and Longitudinal Studies. <i>Frontiers in Psychology</i> , 2017, 8, 1526.	2.1	4
95	Quantitative Changes in Cerebral Perfusion during Urinary Urgency in Women with Overactive Bladder. <i>BioMed Research International</i> , 2017, 2017, 1-8.	1.9	4
96	Imaging homeostatic sleep pressure and circadian rhythm in the human brain. <i>Journal of Thoracic Disease</i> , 2017, 9, E495-E498.	1.4	4
97	Smoking-induced craving relief relates to increased DLPFC-striatal coupling in nicotine-dependent women. <i>Drug and Alcohol Dependence</i> , 2021, 221, 108593.	3.2	4
98	Beauty affects fairness: facial attractiveness alters neural responses to unfairness in the ultimatum game. <i>Brain Imaging and Behavior</i> , 2022, 16, 2497-2505.	2.1	4
99	Neural Substrates Associated With Weather-Induced Mood Variability: An Exploratory Study Using ASL Perfusion fMRI. <i>Journal of Cognitive Science</i> , 2011, 12, 195-210.	0.2	3
100	Arterial spin labeling perfusion magnetic resonance imaging in developmental neuroscience. , 0, , 326-343.		2
101	CRLS-PCA Based Independent Component Analysis for fMRI Study. , 2005, 2005, 5904-7.		2
102	Neuroimaging of Brain Networks and Function. <i>BioMed Research International</i> , 2015, 2015, 1-2.	1.9	2
103	Working memory as a partial mediator of the relationship between multilingualism and foreign language aptitude. <i>International Journal of Multilingualism</i> , 2024, 21, 18-35.	2.5	2
104	Perfusion Imaging of Fatigue and Time-on-Task Effects in Patients With Parkinson's Disease. <i>Frontiers in Aging Neuroscience</i> , 0, 14, .	3.4	2
105	PNFBA-05 SPECIFIC CHANGES IN BRAIN ACTIVITY IN WOMEN WITH OVERACTIVE BLADDER AFTER SUCCESSFUL SACRAL NEUROMODULATION WITH INTERSTIM®: AN FMRI STUDY. <i>Journal of Urology</i> , 2017, 197, .	0.4	1
106	Editorial: Neuroimaging Findings in Sleep Disorders and Circadian Disruption. <i>Frontiers in Neurology</i> , 2019, 10, 249.	2.4	1
107	Effects of BDNF Val66Met polymorphisms on brain structures and behaviors in adolescents with conduct disorder. <i>European Child and Adolescent Psychiatry</i> , 2020, 29, 479-488.	4.7	1
108	763. Regional Cerebral Blood Flow in the Resting Brain of Cigarette-dependent Individuals: Comparison Across Sated and Withdrawal States. <i>Biological Psychiatry</i> , 2017, 81, S310.	1.3	0

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109	O433 Healthy and Depressed Individuals Do Not Differ in Baseline PVT Performance. <i>Sleep</i> , 2019, 42, A175-A175.	1.1	0
110	Alterations in Measures of Neuroplasticity Following Sleep Deprivation and Recovery Sleep in Major Depression. <i>Biological Psychiatry</i> , 2020, 87, S71.	1.3	0
111	Peel learning for pathway-related outcome prediction. <i>Bioinformatics</i> , 2021, 37, 4108-4114.	4.1	0
112	Effects of Aging on Temporal Lobe Blood Flow with Structural Correction in Healthy Older Adults. <i>Journal of Cognitive Science</i> , 2011, 12, 171-193.	0.2	0
113	Diagnosis of Brain Abnormality Using both Structural and Functional MR Images. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2006, , .	0.5	0
114	Risk-taking research based on the Balloon Analog Risk Task. <i>Advances in Psychological Science</i> , 2022, 30, 1377.	0.3	0