# Thomas T Liu

List of Publications by Year
in descending order



| 120 | 12,116 | 38742 50 | 30922 102 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 128 | 128 | 128 | 13493 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | The Effects of Nicotine and Cannabis Co-Use During Late Adolescence on White Matter Fiber Tract Microstructure. Journal of Studies on Alcohol and Drugs, 2022, 83, 287-295. | 1.0 | 7 |
| 2 | Effects of Sub-threshold Transcutaneous Auricular Vagus Nerve Stimulation on Cingulate Cortex and Insula Resting-state Functional Connectivity. Frontiers in Human Neuroscience, 2022, 16, 862443. | 2.0 | 5 |
| 3 | The Effects of Nicotine and Cannabis Co-Use During Late Adolescence on White Matter Fiber Tract Microstructure.. Journal of Studies on Alcohol and Drugs, 2022, 83, 287-295. | 1.0 | 0 |
| 4 | A geometric view of signal sensitivity metrics in multi-echo fMRI. NeuroImage, 2022, 259, 119409. | 4.2 | 1 |
| 5 | Functional connectome fingerprinting using shallow feedforward neural networks. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, . | 7.1 | 9 |
| 6 | Defining Hypoperfusion in Chronic Aphasia: An Individualized Thresholding Approach. Brain Sciences, 2021, 11, 491. | 2.3 | 9 |
| 7 | 070 Respiratory, cardiac, EEG, BOLD signals and functional connectivity over multiple microsleep episodes. Sleep, 2021, 44, A29-A29. | 1.1 | 0 |
| 8 | Respiratory, cardiac, EEG, BOLD signals and functional connectivity over multiple microsleep episodes. NeuroImage, 2021, 237, 118129. | 4.2 | 13 |
| 9 | Effects of sub-threshold transcutaneous auricular vagus nerve stimulation on cerebral blood flow. Scientific Reports, 2021, 11, 24018. | 3.3 | 4 |
| 10 | MRI in systems medicine. Wiley Interdisciplinary Reviews: Systems Biology and Medicine, 2020, 12, e1463. | 6.6 | 4 |
| 11 | Atypical Relationships Between Spontaneous EEG and fMRI Activity in Autism. Brain Connectivity, 2020, 10, 18-28. | 1.7 | 21 |
| 12 | Anterior Cingulate Structure and Perfusion is Associated with Cerebrospinal Fluid Tau among Cognitively Normal Older Adult APOE É›4 Carriers. Journal of Alzheimer's Disease, 2020, 73, 87-101. | 2.6 | 5 |
| 13 | Distinct thalamocortical network dynamics are associated with the pathophysiology of chronic low back pain. Nature Communications, 2020, 11, 3948. | 12.8 | 59 |
| 14 | The effects of nicotine and cannabis co-use during adolescence and young adulthood on white matter cerebral blood flow estimates. Psychopharmacology, 2020, 237, 3615-3624. | 3.1 | 11 |
| 15 | Interaction of APOE, cerebral blood flow, and cortical thickness in the entorhinal cortex predicts memory decline. Brain Imaging and Behavior, 2020, 14, 369-382. | 2.1 | 8 |
| 16 | Vigilance Effects in Resting-State fMRI. Frontiers in Neuroscience, 2020, 14, 321. | 2.8 | 31 |
| 17 | Dose-dependent association of accelerometer-measured physical activity and sedentary time with brain perfusion in aging. Experimental Gerontology, 2019, 125, 110679. | 2.8 | 28 |
| 18 | Nuisance effects in inter-scan functional connectivity estimates before and after nuisance regression. NeuroImage, 2019, 202, 116005. | 4.2 | 3 |

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|---|---|---|---|
| 19 | APOE modifies the interaction of entorhinal cerebral blood flow and cortical thickness on memory function in cognitively normal older adults. NeuroImage, 2019, 202, 116162. | 4.2 | 22 |
| 20 | Transient states of network connectivity are atypical in autism: A dynamic functional connectivity study. Human Brain Mapping, 2019, 40, 2377-2389. | 3.6 | 61 |
| 21 | Nuisance effects and the limitations of nuisance regression in dynamic functional connectivity fMRI. NeuroImage, 2019, 184, 1005-1031. | 4.2 | 24 |
| 22 | Awake Mouse Imaging: From Two-Photon Microscopy to Blood Oxygen Levelâ€“Dependent Functional Magnetic Resonance Imaging. Biological Psychiatry: Cognitive Neuroscience and Neuroimaging, 2019, 4, 533-542. | 1.5 | 49 |
| 23 | Template-based prediction of vigilance fluctuations in resting-state fMRI. NeuroImage, 2018, 174, 317-327. | 4.2 | 65 |
| 24 | Cerebral blood flow predicts differential neurotransmitter activity. Scientific Reports, 2018, 8, 4074. | 3.3 | 78 |
| 25 | The Effects of Global Signal Regression on Estimates of Resting-State Blood Oxygen-Level-Dependent Functional Magnetic Resonance Imaging and Electroencephalogram Vigilance Correlations. Brain Connectivity, 2018, 8, 618-627. | 1.7 | 18 |
| 26 | Reduced Regional Cerebral Blood Flow Relates to Poorer Cognition in Older Adults With Type 2 Diabetes. Frontiers in Aging Neuroscience, 2018, 10, 270. | 3.4 | 83 |
| 27 | Effects of HIV Infection, methamphetamine dependence and age on cortical thickness, area and volume. NeuroImage: Clinical, 2018, 20, 1044-1052. | 2.7 | 24 |
| 28 | Cerebral Blood Flow Measurements in Adults: A Review on the Effects of Dietary Factors and Exercise. Nutrients, 2018, 10, 530. | 4.1 | 84 |
| 29 | Rectified Gaussian Scale Mixtures and the Sparse Non-Negative Least Squares Problem. IEEE Transactions on Signal Processing, 2018, 66, 3124-3139. | 5.3 | 15 |
| 30 | Dynamic association between perfusion and white matter integrity across time since injury in Veterans with history of TBI. NeuroImage: Clinical, 2017, 14, 308-315. | 2.7 | 31 |
| 31 | Global signal regression acts as a temporal downweighting process in resting-state fMRI. NeuroImage, 2017, 152, 602-618. | 4.2 | 53 |
| 32 | The global signal in fMRI: Nuisance or Information?. NeuroImage, 2017, 150, 213-229. | 4.2 | 339 |
| 33 | Reprint of â€˜Noise contributions to the fMRI signal: An Overview'. NeuroImage, 2017, 154, 4-14. | 4.2 | 11 |
| 34 | Dynamic functional connectivity in bipolar disorder is associated with executive function and processing speed: A preliminary study.. Neuropsychology, 2017, 31, 73-83. | 1.3 | 89 |
| 35 | Aberrant Cerebral Blood Flow in Response to Hunger and Satiety in Women Remitted from Anorexia Nervosa. Frontiers in Nutrition, 2017, 4, 32. | 3.7 | 9 |
| 36 | Short-term apparent brain tissue changes are contributed by cerebral blood flow alterations. PLoS ONE, 2017, 12, e0182182. | 2.5 | 23 |

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|---|---|---|---|
| 37 | Higher Brain Perfusion May Not Support Memory Functions in Cognitively Normal Carriers of the ApoE Îµ4 Allele Compared to Non-Carriers. Frontiers in Aging Neuroscience, 2016, 8, 151. | 3.4 | 31 |
| 38 | Noise contributions to the fMRI signal: An overview. NeuroImage, 2016, 143, 141-151. | 4.2 | 227 |
| 39 | The Cerebral Blood Flow Biomedical Informatics Research Network (CBFBIRN) data repository. NeuroImage, 2016, 124, 1202-1207. | 4.2 | 5 |
| 40 | Underconnected, But Not Broken? Dynamic Functional Connectivity MRI Shows Underconnectivity in Autism Is Linked to Increased Intra-Individual Variability Across Time. Brain Connectivity, 2016, 6, 403-414. | 1.7 | 93 |
| 41 | The Function Biomedical Informatics Research Network Data Repository. NeuroImage, 2016, 124, 1074-1079. | 4.2 | 114 |
| 42 | Differences in the resting-state fMRI global signal amplitude between the eyes open and eyes closed states are related to changes in EEG vigilance. NeuroImage, 2016, 124, 24-31. | 4.2 | 107 |
| 43 | Greater preference consistency during the Willingness-to-Pay task is related to higher resting state connectivity between the ventromedial prefrontal cortex and the ventral striatum. Brain Imaging and Behavior, 2016, 10, 730-738. | 2.1 | 10 |
| 44 | A pilot study investigating changes in neural processing after mindfulness training in elite athletes. Frontiers in Behavioral Neuroscience, 2015, 9, 229. | 2.0 | 52 |
| 45 | Elevated cerebrovascular resistance index is associated with cognitive dysfunction in the very-old. Alzheimer's Research and Therapy, 2015, 7, 3. | 6.2 | 16 |
| 46 | Temporal profile of brain response to alprazolam in patients with generalized anxiety disorder. Psychiatry Research - Neuroimaging, 2015, 233, 394-401. | 1.8 | 20 |
| 47 | Enhanced identification of BOLD-like components with multi-echo simultaneous multi-slice (MESMS) fMRI and multi-echo ICA. NeuroImage, 2015, 112, 43-51. | 4.2 | 65 |
| 48 | Increased Cerebral Blood Flow Associated with Better Response Inhibition in Bipolar Disorder. Journal of the International Neuropsychological Society, 2015, 21, 105-115. | 1.8 | 19 |
| 49 | Quality Assurance in Functional MRI. Biological Magnetic Resonance, 2015, , 245-270. | 0.4 | 6 |
| 50 | Interactive effects of vascular risk burden and advanced age on cerebral blood flow. Frontiers in Aging Neuroscience, 2014, 6, 159. | 3.4 | 73 |
| 51 | Game controller modification for fMRI hyperscanning experiments in a cooperative virtual reality environment. MethodsX, 2014, 1, 292-299. | 1.6 | 6 |
| 52 | Developmental changes in resting and functional cerebral blood flow and their relationship to the BOLD response. Human Brain Mapping, 2014, 35, 3188-3198. | 3.6 | 17 |
| 53 | MEG source imaging method using fast L1 minimum-norm and its applications to signals with brain noise and human resting-state source amplitude images. NeuroImage, 2014, 84, 585-604. | 4.2 | 60 |
| 54 | Increased Hippocampal Blood Flow in Sedentary Older Adults at Genetic Risk for Alzheimer's Disease. Journal of Alzheimer's Disease, 2014, 41, 809-817. | 2.6 | 33 |

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|---|---|---|---|
| 55 | Resting-State fMRI Activity Predicts Unsupervised Learning and Memory in an Immersive Virtual Reality Environment. PLoS ONE, 2014, 9, e109622. | 2.5 | 26 |
| 56 | A Survey of the Sources of Noise in fMRI. Psychometrika, 2013, 78, 396-416. | 2.1 | 56 |
| 57 | An Introduction to Normalization and Calibration Methods in Functional MRI. Psychometrika, 2013, 78, 308-321. | 2.1 | 15 |
| 58 | The amplitude of the resting-state fMRI global signal is related to EEG vigilance measures. NeuroImage, 2013, 83, 983-990. | 4.2 | 248 |
| 59 | Neurovascular factors in resting-state functional MRI. NeuroImage, 2013, 80, 339-348. | 4.2 | 107 |
| 60 | Altered Cerebral Perfusion in Executive, Affective, and Motor Networks During Adolescent Depression. Journal of the American Academy of Child and Adolescent Psychiatry, 2013, 52, 1076-1091.e2. | 0.5 | 72 |
| 61 | Interaction of Age and APOE Genotype on Cerebral Blood Flow at Rest. Journal of Alzheimer's Disease, 2013, 34, 921-935. | 2.6 | 92 |
| 62 | Cerebral blood flow response to acute hypoxic hypoxia. NMR in Biomedicine, 2013, 26, 1844-1852. | 2.8 | 33 |
| 63 | Resting-state fMRI activity in the basal ganglia predicts unsupervised learning performance in a virtual reality environment. , 2013, , . | | 2 |
| 64 | High efficiency multishot interleaved spiralâ€in/out: Acquisition for highâ€resolution BOLD fMRI. Magnetic Resonance in Medicine, 2013, 70, 420-428. | 3.0 | 6 |
| 65 | Cortical and Subcortical Cerebrovascular Resistance Index in Mild Cognitive Impairment and Alzheimer's Disease. Journal of Alzheimer's Disease, 2013, 36, 689-698. | 2.6 | 39 |
| 66 | Caffeine-Induced Global Reductions in Resting-State BOLD Connectivity Reflect Widespread Decreases in MEG Connectivity. Frontiers in Human Neuroscience, 2013, 7, 63. | 2.0 | 37 |
| 67 | The Cerebral Blood Flow Biomedical Informatics Research Network (CBFBIRN) database and analysis pipeline for arterial spin labeling MRI data. Frontiers in Neuroinformatics, 2013, 7, 21. | 2.5 | 20 |
| 68 | Assessment of Alzheimer's Disease Risk with Functional Magnetic Resonance Imaging: An Arterial Spin Labeling Study. Journal of Alzheimer's Disease, 2012, 31, S59-S74. | 2.6 | 73 |
| 69 | A geometric view of global signal confounds in resting-state functional MRI. NeuroImage, 2012, 59, 2339-2348. | 4.2 | 85 |
| 70 | Caffeine increases the temporal variability of resting-state BOLD connectivity in the motor cortex. NeuroImage, 2012, 59, 2994-3002. | 4.2 | 56 |
| 71 | The development of event-related fMRI designs. NeuroImage, 2012, 62, 1157-1162. | 4.2 | 31 |
| 72 | An automatic MEG low-frequency source imaging approach for detecting injuries in mild and moderate TBI patients with blast and non-blast causes. NeuroImage, 2012, 61, 1067-1082. | 4.2 | 101 |

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|---|---|---|---|
| 73 | Anti-correlated networks, global signal regression, and the effects of caffeine in resting-state functional MRI. NeuroImage, 2012, 63, 356-364. | 4.2 | 130 |
| 74 | Altered cerebral blood flow and neurocognitive correlates in adolescent cannabis users. Psychopharmacology, 2012, 222, 675-684. | 3.1 | 65 |
| 75 | Function biomedical informatics research network recommendations for prospective multicenter functional MRI studies. Journal of Magnetic Resonance Imaging, 2012, 36, 39-54. | 3.4 | 201 |
| 76 | On multiple alternating steady states induced by periodic spin phase perturbation waveforms. Magnetic Resonance in Medicine, 2012, 67, 1412-1418. | 3.0 | 1 |
| 77 | Pseudocontinuous arterial spin labeling with optimized tagging efficiency. Magnetic Resonance in Medicine, 2012, 68, 1135-1144. | 3.0 | 36 |
| 78 | Effect of Mild Cognitive Impairment and APOE Genotype on Resting Cerebral Blood Flow and its Association with Cognition. Journal of Cerebral Blood Flow and Metabolism, 2012, 32, 1589-1599. | 4.3 | 65 |
| 79 | Accurate reconstruction of temporal correlation for neuronal sources using the enhanced dual-core MEG beamformer. NeuroImage, 2011, 56, 1918-1928. | 4.2 | 26 |
| 80 | Adaptation of a Haptic Robot in a 3T fMRI. Journal of Visualized Experiments, 2011, , . | 0.3 | 2 |
| 81 | Alcohol Effects on Cerebral Blood Flow in Subjects With Low and High Responses to Alcohol. Alcoholism: Clinical and Experimental Research, 2011, 35, 1034-1040. | 2.4 | 56 |
| 82 | A novel method for quantifying scanner instability in fMRI. Magnetic Resonance in Medicine, 2011, 65, 1053-1061. | 3.0 | 46 |
| 83 | Multiphase pseudocontinuous arterial spin labeling (MPâ€PCASL) for robust quantification of cerebral blood flow. Magnetic Resonance in Medicine, 2010, 64, 799-810. | 3.0 | 90 |
| 84 | Cortical depth-specific microvascular dilation underlies laminar differences in blood oxygenation level-dependent functional MRI signal. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 15246-15251. | 7.1 | 267 |
| 85 | An arterial spin labeling investigation of cerebral blood flow deficits in chronic stroke survivors. NeuroImage, 2010, 51, 995-1005. | 4.2 | 62 |
| 86 | Caffeine increases the linearity of the visual BOLD response. NeuroImage, 2010, 49, 2311-2317. | 4.2 | 12 |
| 87 | Differential age effects on cerebral blood flow and BOLD response to encoding: Associations with cognition and stroke risk. Neurobiology of Aging, 2009, 30, 1276-1287. | 3.1 | 82 |
| 88 | Cerebral perfusion and oxygenation differences in Alzheimer's disease risk. Neurobiology of Aging, 2009, 30, 1737-1748. | 3.1 | 171 |
| 89 | Inter-subject variability in hypercapnic normalization of the BOLD fMRI response. NeuroImage, 2009, 45, 420-430. | 4.2 | 50 |
| 90 | Caffeine reduces resting-state BOLD functional connectivity in the motor cortex. NeuroImage, 2009, 46, 56-63. | 4.2 | 69 |

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|---|---|---|---|
| 91 | Optimal phase difference reconstruction: comparison of two methods. Magnetic Resonance Imaging, 2008, 26, 142-145. | 1.8 | 24 |
| 92 | Imaging periodic currents using alternating balanced steadyâ€state free precession. Magnetic Resonance in Medicine, 2008, 59, 140-148. | 3.0 | 21 |
| 93 | Noninvasive measurement of the cerebral blood flow response in human lateral geniculate nucleus with arterial spin labeling fMRI. Human Brain Mapping, 2008, 29, 1207-1214. | 3.6 | 10 |
| 94 | SNR and functional sensitivity of BOLD and perfusion-based fMRI using arterial spin labeling with spiral SENSE at 3 T. Magnetic Resonance Imaging, 2008, 26, 513-522. | 1.8 | 27 |
| 95 | Caffeine-induced uncoupling of cerebral blood flow and oxygen metabolism: A calibrated BOLD fMRI study. NeuroImage, 2008, 40, 237-247. | 4.2 | 148 |
| 96 | Calibrated fMRI in the medial temporal lobe during a memory-encoding task. NeuroImage, 2008, 40, 1495-1502. | 4.2 | 32 |
| 97 | Caffeine reduces the activation extent and contrast-to-noise ratio of the functional cerebral blood flow response but not the BOLD response. NeuroImage, 2008, 42, 296-305. | 4.2 | 54 |
| 98 | Measurement of cerebral perfusion with arterial spin labeling: Part 2. Applications. Journal of the International Neuropsychological Society, 2007, 13, 526-38. | 1.8 | 93 |
| 99 | Measurement of cerebral perfusion with arterial spin labeling: Part 1. Methods. Journal of the International Neuropsychological Society, 2007, 13, 517-25. | 1.8 | 173 |
| 100 | A component based noise correction method (CompCor) for BOLD and perfusion based fMRI. NeuroImage, 2007, 37, 90-101. | 4.2 | 3,466 |
| 101 | Cerebral blood flow and BOLD responses to a memory encoding task: A comparison between healthy young and elderly adults. NeuroImage, 2007, 37, 430-439. | 4.2 | 99 |
| 102 | A Primer on Functional Magnetic Resonance Imaging. Neuropsychology Review, 2007, 17, 107-125. | 4.9 | 59 |
| 103 | Physiological noise reduction for arterial spin labeling functional MRI. NeuroImage, 2006, 31, 1104-1115. | 4.2 | 100 |
| 104 | Caffeine reduces the initial dip in the visual BOLD response at 3 T. NeuroImage, 2006, 32, 9-15. | 4.2 | 49 |
| 105 | Velocity-selective arterial spin labeling. Magnetic Resonance in Medicine, 2006, 55, 1334-1341. | 3.0 | 224 |
| 106 | Bayesian inference of hemodynamic changes in functional arterial spin labeling data. Magnetic Resonance in Medicine, 2006, 56, 891-906. | 3.0 | 39 |
| 107 | A signal processing model for arterial spin labeling functional MRI. NeuroImage, 2005, 24, 207-215. | 4.2 | 202 |
| 108 | An arteriolar compliance model of the cerebral blood flow response to neural stimulus. NeuroImage, 2005, 25, 1100-1111. | 4.2 | 124 |

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|---|---|---|---|
| 109 | Discrepancies between BOLD and flow dynamics in primary and supplementary motor areas: application of the balloon model to the interpretation of BOLD transients. NeuroImage, 2004, 21, 144-153. | 4.2 | 226 |
| 110 | Efficiency, power, and entropy in event-related FMRI with multiple trial types. NeuroImage, 2004, 21, 387-400. | 4.2 | 104 |
| 111 | Efficiency, power, and entropy in event-related fMRI with multiple trial types. NeuroImage, 2004, 21, 401-413. | 4.2 | 112 |
| 112 | Trend detection via temporal difference model predicts inferior prefrontal cortex activation during acquisition of advantageous action selection. NeuroImage, 2004, 21, 733-743. | 4.2 | 46 |
| 113 | Coupling of cerebral blood flow and oxygen consumption during physiological activation and deactivation measured with fMRI. NeuroImage, 2004, 23, 148-155. | 4.2 | 230 |
| 114 | Modeling the hemodynamic response to brain activation. NeuroImage, 2004, 23, S220-S233. | 4.2 | 1,023 |
| 115 | Caffeine alters the temporal dynamics of the visual BOLD response. NeuroImage, 2004, 23, 1402-1413. | 4.2 | 113 |
| 116 | Increased diffusion sensitivity with hyperechos. Magnetic Resonance in Medicine, 2003, 49, 1098-1105. | 3.0 | 8 |
| 117 | Analysis and Design of Perfusion-Based Event-Related fMRI Experiments. NeuroImage, 2002, 16, 269-282. | 4.2 | 40 |
| 118 | Detection Power, Estimation Efficiency, and Predictability in Event-Related fMRI. NeuroImage, 2001, 13, 759-773. | 4.2 | 251 |
| 119 | Nonlinear temporal dynamics of the cerebral blood flow response. Human Brain Mapping, 2001, 13, 1-12. | 3.6 | 183 |
| 120 | Turbo ASL: Arterial spin labeling with higher SNR and temporal resolution. Magnetic Resonance in Medicine, 2000, 44, 511-515. | 3.0 | 52 |