

Ai-Ling Lin

List of Publications by Year in descending order

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Version: 2024-02-01

57
papers

2,241
citations

236925

25
h-index

223800

46
g-index

58
all docs

58
docs citations

58
times ranked

3590
citing authors

#	ARTICLE	IF	CITATIONS
1	Glucose Metabolism is a Better Marker for Predicting Clinical Alzheimer's Disease than Amyloid or Tau.. Journal of Cellular Immunology, 2022, 4, 15-18.	0.8	0
2	Advit: Vision Transformer On Multi-Modality Pet Images For Alzheimer Disease Diagnosis. , 2022, , .		11
3	Apolipoprotein E genotype-dependent nutrigenetic effects to prebiotic inulin for modulating systemic metabolism and neuroprotection in mice via gut-brain axis. Nutritional Neuroscience, 2021, , 1-11.	3.1	14
4	Extended Middle Cerebral Artery Occlusion (MCAO) Model to Mirror Stroke Patients Undergoing Thrombectomy. Translational Stroke Research, 2021, , 1.	4.2	9
5	Human Gray and White Matter Metabolomics to Differentiate APOE and Stage Dependent Changes in Alzheimer's Disease. , 2021, 3, 397-412.		8
6	mTOR drives cerebrovascular, synaptic, and cognitive dysfunction in normative aging. Aging Cell, 2020, 19, e13057.	6.7	52
7	Exercise-mediated alteration of hippocampal Dicer mRNA and miRNAs is associated with lower BACE1 gene expression and A β 1-42 in female 3xTg-AD mice. Journal of Neurophysiology, 2020, 124, 1571-1577.	1.8	5
8	Human APOE4 carriers show different metabolic signatures than APOE3 carriers throughout Alzheimer's disease development. Alzheimer's and Dementia, 2020, 16, e040423.	0.8	0
9	Gray and white matter metabolite differences in Alzheimer's disease and normal human brain tissue. Alzheimer's and Dementia, 2020, 16, e043940.	0.8	0
10	Metabolite differences in TDP43 proteinopathy and control human brain tissue. Alzheimer's and Dementia, 2020, 16, e044199.	0.8	0
11	Metabolite differences in vascular dementia and control human brain tissue. Alzheimer's and Dementia, 2020, 16, e044230.	0.8	0
12	APOE genotype-dependent pharmacogenetic responses to rapamycin for preventing Alzheimer's disease. Neurobiology of Disease, 2020, 139, 104834.	4.4	26
13	β -amyloid and tau drive early Alzheimer's disease decline while glucose hypometabolism drives late decline. Communications Biology, 2020, 3, 352.	4.4	63
14	Dynamic Image for 3D MRI Image Alzheimer's Disease Classification. Lecture Notes in Computer Science, 2020, , 355-364.	1.3	19
15	Blood Flow Deficits and Cerebrovascular Changes in a Dietary Model of Hyperhomocysteinemia. ASN Neuro, 2019, 11, 175909141986578.	2.7	17
16	Caloric Restriction Alters Postprandial Responses of Essential Brain Metabolites in Young Adult Mice. Frontiers in Nutrition, 2019, 6, 90.	3.7	7
17	Dietary inulin alters the gut microbiome, enhances systemic metabolism and reduces neuroinflammation in an APOE4 mouse model. PLoS ONE, 2019, 14, e0221828.	2.5	78
18	Novel Calibrated Short TR Recovery (CaSTRR) Method for Brain-Blood Partition Coefficient Correction Enhances Gray-White Matter Contrast in Blood Flow Measurements in Mice. Frontiers in Neuroscience, 2019, 13, 308.	2.8	4

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19	Brain's Blood Partition Coefficient and Cerebral Blood Flow in Canines Using Calibrated Short TR Recovery (CaSTRR) Correction Method. <i>Frontiers in Neuroscience</i> , 2019, 13, 1189.	2.8	4
20	Chronic Intermittent Hypoxia Induces Robust Astroglialosis in an Alzheimer's Disease-Relevant Mouse Model. <i>Neuroscience</i> , 2019, 398, 55-63.	2.3	20
21	Title is missing!. , 2019, 14, e0221828.		0
22	Title is missing!. , 2019, 14, e0221828.		0
23	Title is missing!. , 2019, 14, e0221828.		0
24	Title is missing!. , 2019, 14, e0221828.		0
25	Ketogenic diet enhances neurovascular function with altered gut microbiome in young healthy mice. <i>Scientific Reports</i> , 2018, 8, 6670.	3.3	203
26	mTOR drives cerebral blood flow and memory deficits in LDLR ^{−/−} mice modeling atherosclerosis and vascular cognitive impairment. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2018, 38, 58-74.	4.3	35
27	A Mild Traumatic Brain Injury in Mice Produces Lasting Deficits in Brain Metabolism. <i>Journal of Neurotrauma</i> , 2018, 35, 2435-2447.	3.4	36
28	Neuroimaging Biomarkers of mTOR Inhibition on Vascular and Metabolic Functions in Aging Brain and Alzheimer's Disease. <i>Frontiers in Aging Neuroscience</i> , 2018, 10, 225.	3.4	12
29	Risk factors and global cognitive status related to brain arteriolosclerosis in elderly individuals. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2017, 37, 201-216.	4.3	69
30	Rapamycin rescues vascular, metabolic and learning deficits in apolipoprotein E4 transgenic mice with pre-symptomatic Alzheimer's disease. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2017, 37, 217-226.	4.3	126
31	Targeting mitochondrial dysfunction in CNS injury using Methylene Blue; still a magic bullet?. <i>Neurochemistry International</i> , 2017, 109, 117-125.	3.8	21
32	Neuroimaging Biomarkers of Caloric Restriction on Brain Metabolic and Vascular Functions. <i>Current Nutrition Reports</i> , 2017, 6, 41-48.	4.3	9
33	Age Drives Distortion of Brain Metabolic, Vascular and Cognitive Functions, and the Gut Microbiome. <i>Frontiers in Aging Neuroscience</i> , 2017, 9, 298.	3.4	96
34	Caloric restriction preserves memory and reduces anxiety of aging mice with early enhancement of neurovascular functions. <i>Aging</i> , 2016, 8, 2814-2826.	3.1	62
35	mTOR: Alzheimer's disease prevention for APOE4 carriers. <i>Oncotarget</i> , 2016, 7, 44873-44874.	1.8	5
36	Early Shifts of Brain Metabolism by Caloric Restriction Preserve White Matter Integrity and Long-Term Memory in Aging Mice. <i>Frontiers in Aging Neuroscience</i> , 2015, 7, 213.	3.4	48

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37	Resting-state regional cerebral blood flow during adolescence: Associations with initiation of substance use and prediction of future use disorders. <i>Drug and Alcohol Dependence</i> , 2015, 149, 40-48.	3.2	18
38	Caloric restriction increases ketone bodies metabolism and preserves blood flow in aging brain. <i>Neurobiology of Aging</i> , 2015, 36, 2296-2303.	3.1	65
39	How longevity research can lead to therapies for Alzheimer's disease: The rapamycin story. <i>Experimental Gerontology</i> , 2015, 68, 51-58.	2.8	104
40	What have novel imaging techniques revealed about metabolism in the aging brain?. <i>Future Neurology</i> , 2014, 9, 341-354.	0.5	35
41	Hypermetabolic State in the 7-Month-Old Triple Transgenic Mouse Model of Alzheimer'S Disease and the Effect of Lipoic Acid: A ¹³ C-NMR Study. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2014, 34, 1749-1760.	4.3	40
42	Caloric Restriction Impedes Age-Related Decline of Mitochondrial Function and Neuronal Activity. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2014, 34, 1440-1443.	4.3	60
43	Complex IV-deficient <i>Surf1</i> mice initiate mitochondrial stress responses. <i>Biochemical Journal</i> , 2014, 462, 359-371.	3.7	89
44	Microwave and magnetic (M2) proteomics of a mouse model of mild traumatic brain injury. <i>Translational Proteomics</i> , 2014, 3, 10-21.	1.2	19
45	Multimodal bioimaging using a rare earth doped Gd ₂ O ₂ S:Yb/Er phosphor with upconversion luminescence and magnetic resonance properties. <i>Journal of Materials Chemistry B</i> , 2013, 1, 1561.	5.8	85
46	Decreased <i>in vitro</i> Mitochondrial Function is Associated with Enhanced Brain Metabolism, Blood Flow, and Memory in Surf1-Deficient Mice. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2013, 33, 1605-1611.	4.3	35
47	Bimodal imaging using neodymium doped gadolinium fluoride nanocrystals with near-infrared to near-infrared downconversion luminescence and magnetic resonance properties. <i>Journal of Materials Chemistry B</i> , 2013, 1, 5702.	5.8	50
48	Chronic Rapamycin Restores Brain Vascular Integrity and Function Through NO Synthase Activation and Improves Memory in Symptomatic Mice Modeling Alzheimer's Disease. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2013, 33, 1412-1421.	4.3	181
49	Multimodal MRI Neuroimaging Biomarkers for Cognitive Normal Adults, Amnesic Mild Cognitive Impairment, and Alzheimer's Disease. <i>Neurology Research International</i> , 2012, 2012, 1-17.	1.3	26
50	Methylene Blue as a Cerebral Metabolic and Hemodynamic Enhancer. <i>PLoS ONE</i> , 2012, 7, e46585.	2.5	59
51	Blood longitudinal (T ₁) and transverse (T ₂) relaxation time constants at 11.7 Tesla. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2012, 25, 245-249.	2.0	38
52	Validation of VASO cerebral blood volume measurement with positron emission tomography. <i>Magnetic Resonance in Medicine</i> , 2011, 65, 744-749.	3.0	19
53	Cerebral Blood Volume Measurements ⁶⁷ Gd-DTPA vs. VASO - and Their Relationship with Cerebral Blood Flow in Activated Human Visual Cortex. <i>Open Neuroimaging Journal</i> , 2011, 5, 90-95.	0.2	8
54	Functional evaluation of therapeutic response for a mouse model of medulloblastoma. <i>Transgenic Research</i> , 2010, 19, 829-840.	2.4	12

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55	Functional neuroimaging: a physiological perspective. <i>Frontiers in Neuroenergetics</i> , 2010, 2, .	5.3	9
56	Nonlinear coupling between cerebral blood flow, oxygen consumption, and ATP production in human visual cortex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 8446-8451.	7.1	180
57	Time-dependent correlation of cerebral blood flow with oxygen metabolism in activated human visual cortex as measured by fMRI. <i>NeuroImage</i> , 2009, 44, 16-22.	4.2	49