

Yen-Yu Ian Shih

List of Publications by Year in descending order

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88
papers

2,453
citations

201385

27
h-index

264894

42
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98
all docs

98
docs citations

98
times ranked

3241
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	2.4	181
2	A New Scenario for Negative Functional Magnetic Resonance Imaging Signals: Endogenous Neurotransmission. <i>Journal of Neuroscience</i> , 2009, 29, 3036-3044.	1.7	114
3	Imaging brain hemodynamic changes during rat forepaw electrical stimulation using functional photoacoustic microscopy. <i>NeuroImage</i> , 2010, 52, 562-570.	2.1	111
4	Animal Functional Magnetic Resonance Imaging: Trends and Path Toward Standardization. <i>Frontiers in Neuroinformatics</i> , 2019, 13, 78.	1.3	78
5	Transcranial Imaging of Functional Cerebral Hemodynamic Changes in Single Blood Vessels using <i>in vivo</i> Photoacoustic Microscopy. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2012, 32, 938-951.	2.4	77
6	Design, simulation and experimental validation of a novel flexible neural probe for deep brain stimulation and multichannel recording. <i>Journal of Neural Engineering</i> , 2012, 9, 036001.	1.8	72
7	Functional MRI reveals frequency-dependent responses during deep brain stimulation at the subthalamic nucleus or internal globus pallidus. <i>NeuroImage</i> , 2014, 84, 11-18.	2.1	62
8	Striatal and Cortical BOLD, Blood Flow, Blood Volume, Oxygen Consumption, and Glucose Consumption Changes in Noxious Forepaw Electrical Stimulation. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2011, 31, 832-841.	2.4	60
9	Combining optogenetic stimulation and fMRI to validate a multivariate dynamical systems model for estimating causal brain interactions. <i>NeuroImage</i> , 2016, 132, 398-405.	2.1	60
10	Coordination of Brain-Wide Activity Dynamics by Dopaminergic Neurons. <i>Neuropsychopharmacology</i> , 2017, 42, 615-627.	2.8	59
11	Adolescent alcohol exposure decreases frontostriatal resting-state functional connectivity in adulthood. <i>Addiction Biology</i> , 2018, 23, 810-823.	1.4	58
12	Aspm sustains postnatal cerebellar neurogenesis and medulloblastoma growth. <i>Development (Cambridge)</i> , 2015, 142, 3921-32.	1.2	54
13	Loss of Brain Norepinephrine Elicits Neuroinflammation-Mediated Oxidative Injury and Selective Caudo-Rostral Neurodegeneration. <i>Molecular Neurobiology</i> , 2019, 56, 2653-2669.	1.9	50
14	Whole-brain functional magnetic resonance imaging mapping of acute nociceptive responses induced by formalin in rats using atlas registration-based event-related analysis. <i>Journal of Neuroscience Research</i> , 2008, 86, 1801-1811.	1.3	45
15	Ultra high-resolution fMRI and electrophysiology of the rat primary somatosensory cortex. <i>NeuroImage</i> , 2013, 73, 113-120.	2.1	44
16	Quantitative Retinal and Choroidal Blood Flow During Light, Dark Adaptation and Flicker Light Stimulation in Rats Using Fluorescent Microspheres. <i>Current Eye Research</i> , 2013, 38, 292-298.	0.7	42
17	Development of wavelet de-noising technique for PET images. <i>Computerized Medical Imaging and Graphics</i> , 2005, 29, 297-304.	3.5	41
18	Methylene blue potentiates stimulus-evoked fMRI responses and cerebral oxygen consumption during normoxia and hypoxia. <i>NeuroImage</i> , 2013, 72, 237-242.	2.1	38

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19	Automatic Skull Stripping of Rat and Mouse Brain MRI Data Using U-Net. <i>Frontiers in Neuroscience</i> , 2020, 14, 568614.	1.4	38
20	Noradrenergic dysfunction accelerates LPS-elicited inflammation-related ascending sequential neurodegeneration and deficits in non-motor/motor functions. <i>Brain, Behavior, and Immunity</i> , 2019, 81, 374-387.	2.0	36
21	Chemogenetic stimulation of tonic locus coeruleus activity strengthens the default mode network. <i>Science Advances</i> , 2022, 8, eabm9898.	4.7	36
22	Imaging Neurovascular Function and Functional Recovery after Stroke in the Rat Striatum Using Forepaw Stimulation. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2014, 34, 1483-1492.	2.4	34
23	Rescue of cortical neurovascular functions during the hyperacute phase of ischemia by peripheral sensory stimulation. <i>Neurobiology of Disease</i> , 2015, 75, 53-63.	2.1	33
24	Brain nociceptive imaging in rats using 18f-fluorodeoxyglucose small-animal positron emission tomography. <i>Neuroscience</i> , 2008, 155, 1221-1226.	1.1	32
25	Lamina-Specific Functional MRI of Retinal and Choroidal Responses to Visual Stimuli. , 2011, 52, 5303.		32
26	Functional Magnetic Resonance Imaging of Electrical and Optogenetic Deep Brain Stimulation at the Rat Nucleus Accumbens. <i>Scientific Reports</i> , 2016, 6, 31613.	1.6	32
27	Functional circuit mapping of striatal output nuclei using simultaneous deep brain stimulation and fMRI. <i>NeuroImage</i> , 2017, 146, 1050-1061.	2.1	32
28	Layer-specific blood-flow MRI of retinitis pigmentosa in RCS rats. <i>Experimental Eye Research</i> , 2012, 101, 90-96.	1.2	31
29	Investigation of the cerebral hemodynamic response function in single blood vessels by functional photoacoustic microscopy. <i>Journal of Biomedical Optics</i> , 2012, 17, 061210.	1.4	30
30	Resting state network topology of the ferret brain. <i>NeuroImage</i> , 2016, 143, 70-81.	2.1	30
31	Supramammillary nucleus synchronizes with dentate gyrus to regulate spatial memory retrieval through glutamate release. <i>ELife</i> , 2020, 9, .	2.8	30
32	Dynamic perfusion and diffusion MRI of cortical spreading depolarization in photothrombotic ischemia. <i>Neurobiology of Disease</i> , 2014, 71, 131-139.	2.1	29
33	Robust deep brain stimulation functional MRI procedures in rats and mice using an MR-compatible tungsten microwire electrode. <i>Magnetic Resonance in Medicine</i> , 2015, 73, 1246-1251.	1.9	29
34	Longitudinal study of tumor-associated macrophages during tumor expansion using MRI. <i>NMR in Biomedicine</i> , 2011, 24, 1353-1360.	1.6	28
35	BOLD fMRI mapping of brain responses to nociceptive stimuli in rats under ketamine anesthesia. <i>Medical Engineering and Physics</i> , 2008, 30, 953-958.	0.8	26
36	Endogenous opioid-dopamine neurotransmission underlie negative CBV fMRI signals. <i>Experimental Neurology</i> , 2012, 234, 382-388.	2.0	26

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37	Assessment of neurovascular dynamics during transient ischemic attack by the novel integration of micro-electrocorticography electrode array with functional photoacoustic microscopy. <i>Neurobiology of Disease</i> , 2015, 82, 455-465.	2.1	26
38	Pharmacological MRI of the choroid and retina: Blood flow and BOLD responses during nitroprusside infusion. <i>Magnetic Resonance in Medicine</i> , 2012, 68, 1273-1278.	1.9	24
39	Role of Genetic Variation in Collateral Circulation in the Evolution of Acute Stroke. <i>Stroke</i> , 2017, 48, 754-761.	1.0	24
40	Genetic identification of a population of noradrenergic neurons implicated in attenuation of stress-related responses. <i>Molecular Psychiatry</i> , 2019, 24, 710-725.	4.1	24
41	Blood oxygenation level-dependent (BOLD) functional MRI of visual stimulation in the rat retina at 11.7 T. <i>NMR in Biomedicine</i> , 2011, 24, 188-193.	1.6	23
42	Spectral fiber photometry derives hemoglobin concentration changes for accurate measurement of fluorescent sensor activity. <i>Cell Reports Methods</i> , 2022, 2, 100243.	1.4	23
43	Quantitative MR T2 measurement of articular cartilage to assess the treatment effect of intra-articular hyaluronic acid injection on experimental osteoarthritis induced by ACLX. <i>Osteoarthritis and Cartilage</i> , 2010, 18, 54-60.	0.6	22
44	Dopaminergic imaging of nonmotor manifestations in a rat model of Parkinson's disease by fMRI. <i>Neurobiology of Disease</i> , 2013, 49, 99-106.	2.1	22
45	High-Resolution 3D MR Microangiography of the Rat Ocular Circulation. <i>Radiology</i> , 2012, 264, 234-241.	3.6	21
46	fMRI of Deep Brain Stimulation at the Rat Ventral Posteromedial Thalamus. <i>Brain Stimulation</i> , 2014, 7, 190-193.	0.7	21
47	An isotropic EPI database and analytical pipelines for rat brain resting-state fMRI. <i>NeuroImage</i> , 2021, 243, 118541.	2.1	20
48	MRI study of cerebral, retinal and choroidal blood flow responses to acute hypertension. <i>Experimental Eye Research</i> , 2013, 112, 118-124.	1.2	19
49	One-pot synthesis of carboxymethyl-dextran coated iron oxide nanoparticles (CION) for preclinical fMRI and MRA applications. <i>NeuroImage</i> , 2021, 238, 118213.	2.1	19
50	Automatic segmentation of magnetic resonance images using a decision tree with spatial information. <i>Computerized Medical Imaging and Graphics</i> , 2009, 33, 111-121.	3.5	18
51	Superior-capsular elongation and its significance in atraumatic posteroinferior multidirectional shoulder instability in magnetic resonance arthrography. <i>Acta Radiologica</i> , 2010, 51, 302-308.	0.5	18
52	Neural Circuit Modulation During Deep Brain Stimulation at the Subthalamic Nucleus for Parkinson's Disease: What Have We Learned from Neuroimaging Studies?. <i>Brain Connectivity</i> , 2013, 4, 131218075844008.	0.8	18
53	MicroPET imaging of noxious thermal stimuli in the conscious rat brain. <i>Somatosensory & Motor Research</i> , 2010, 27, 69-81.	0.4	17
54	The Accumulation of Tau-Immunoreactive Hippocampal Granules and Corpora Amylacea Implicates Reactive Glia in Tau Pathogenesis during Aging. <i>IScience</i> , 2020, 23, 101255.	1.9	17

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55	Deep Brain Stimulation with Simultaneous fMRI in Rodents. <i>Journal of Visualized Experiments</i> , 2014, , e51271.	0.2	16
56	Structural and functional connectivity between the lateral posterior pulvinar complex and primary visual cortex in the ferret. <i>European Journal of Neuroscience</i> , 2016, 43, 230-244.	1.2	15
57	Simultaneous functional photoacoustic microscopy and electrocorticography reveal the impact of rtPA on dynamic neurovascular functions after cerebral ischemia. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2018, 38, 980-995.	2.4	15
58	MR imaging central thalamic deep brain stimulation restored autistic-like social deficits in the rat. <i>Brain Stimulation</i> , 2019, 12, 1410-1420.	0.7	15
59	MicroPET study of brain neuronal metabolism under electrical and mechanical stimulation of the rat tail. <i>Nuclear Medicine Communications</i> , 2009, 30, 188-193.	0.5	14
60	Automatic spike sorting for extracellular electrophysiological recording using unsupervised single linkage clustering based on grey relational analysis. <i>Journal of Neural Engineering</i> , 2011, 8, 036003.	1.8	14
61	Layer-Specific Manganese-Enhanced MRI of the Retina in Light and Dark Adaptation. , 2012, 53, 4352.		13
62	Comparison of retinal and cerebral blood flow between continuous arterial spin labeling MRI and fluorescent microsphere techniques. <i>Journal of Magnetic Resonance Imaging</i> , 2014, 40, 609-615.	1.9	13
63	Computing hemodynamic response functions from concurrent spectral fiber-photometry and fMRI data. <i>Neurophotonics</i> , 2022, 9, 032205.	1.7	13
64	ISPMER: Integrated system for combined PET, MRI, and electrophysiological recording in somatosensory studies in rats. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2007, 580, 938-943.	0.7	12
65	An Adeno-Associated Virus-Based Toolkit for Preferential Targeting and Manipulating Quiescent Neural Stem Cells in the Adult Hippocampus. <i>Stem Cell Reports</i> , 2018, 10, 1146-1159.	2.3	12
66	IL-11 antagonist suppresses Th17 cell-mediated neuroinflammation and demyelination in a mouse model of relapsing-remitting multiple sclerosis. <i>Clinical Immunology</i> , 2018, 197, 45-53.	1.4	12
67	Mitochondriotropic lanthanide nanorods: implications for multimodal imaging. <i>Chemical Communications</i> , 2020, 56, 7945-7948.	2.2	12
68	Intramuscular Schwannoma Arising from the Psoas Muscle Presenting with Femoral Nerve Neuropathy. <i>Southern Medical Journal</i> , 2010, 103, 477-479.	0.3	10
69	Simultaneous fMRI and fast-scan cyclic voltammetry bridges evoked oxygen and neurotransmitter dynamics across spatiotemporal scales. <i>NeuroImage</i> , 2021, 244, 118634.	2.1	10
70	3D U-Net Improves Automatic Brain Extraction for Isotropic Rat Brain Magnetic Resonance Imaging Data. <i>Frontiers in Neuroscience</i> , 2021, 15, 801008.	1.4	9
71	Improving segmentation accuracy for magnetic resonance imaging using a boosted decision tree. <i>Journal of Neuroscience Methods</i> , 2008, 175, 206-217.	1.3	8
72	Subcutaneous lipoma compressing the common peroneal nerve and causing palsy: Sonographic diagnosis. <i>Journal of Clinical Ultrasound</i> , 2010, 38, 97-99.	0.4	7

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73	Correction of inhomogeneous magnetic resonance images using multiscale retinex for segmentation accuracy improvement. Biomedical Signal Processing and Control, 2012, 7, 129-140.	3.5	7
74	A low cost color visual stimulator for fMRI. Journal of Neuroscience Methods, 2012, 204, 379-382.	1.3	5
75	3D magnetic resonance microscopy of the ex vivo retina. Magnetic Resonance in Medicine, 2012, 67, 1154-1158.	1.9	4
76	Advances in Molecular Pathway-Directed Cancer Systems Imaging and Therapy. BioMed Research International, 2014, 2014, 1-2.	0.9	4
77	Altered Cortico-Subcortical Network After Adolescent Alcohol Exposure Mediates Behavioral Deficits in Flexible Decision-Making. Frontiers in Pharmacology, 2021, 12, 778884.	1.6	4
78	Exploring nociceptive response by BOLD fMRI in $\hat{\pm}$ -chloralose anesthetized rats. , 2006, 2006, 33-6.		2
79	Temporal assessment of vascular reactivity and functionality using MRI during posts ischemic proangiogenic vascular remodeling. Magnetic Resonance Imaging, 2015, 33, 903-910.	1.0	2
80	Superoxide free radical spinâ€lattice relaxivity: A quenchedâ€assisted MR study. Magnetic Resonance in Medicine, 2021, 86, 1058-1066.	1.9	2
81	DYNAMIC MAPPING OF AMPHETAMINE RESPONSE IN THE RAT BRAIN USING BOLD AND IRON TECHNIQUES. Biomedical Engineering - Applications, Basis and Communications, 2007, 19, 157-163.	0.3	1
82	ANTINOCICEPTIVE EFFECT OF MORPHINE IN $\hat{\pm}$ -CHLORALOSE AND ISOFLURANE ANESTHETIZED RATS USING BOLD fMRI. Biomedical Engineering - Applications, Basis and Communications, 2008, 20, 39-46.	0.3	1
83	A rare case of coiling of the brachial artery: a description of the sonographic features. Journal of Medical Ultrasonics (2001), 2012, 39, 21-24.	0.6	1
84	Vibration-Assisted Insertion of Flexible Neural Microelectrodes With Bio-Dissolvable Guides for Medical Implantation. , 2021, , .		1
85	HOW TO EXTRACT THE SPATIAL CORRELATION OF AUDITORY CORTICAL EVOKED POTENTIALS ON MULTIPLE SCALP ELECTRODES IN TINNITUS PATIENTS. Biomedical Engineering - Applications, Basis and Communications, 2008, 20, 297-302.	0.3	0
86	A subset of noradrenergic (NE) neurons defined by developmental expression of Hoxb1 have a distinct role in attenuating the behavioral response to acute stress. Molecular Psychiatry, 2019, 24, 625-625.	4.1	0
87	Spectral Fiber-Photometry Derives Hemoglobin-Absorption Changes for Accurate Measurement of Fluorescent Sensor Activity. SSRN Electronic Journal, 0, , .	0.4	0
88	Aging and Microglial Activation in Neurodegenerative Diseases. Oxidative Stress in Applied Basic Research and Clinical Practice, 2016, , 107-131.	0.4	0