

Kai-Hsiang Chuang

List of Publications by Year in descending order

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102
papers

4,007
citations

94381

37
h-index

133188

59
g-index

108
all docs

108
docs citations

108
times ranked

6846
citing authors

#	ARTICLE	IF	CITATIONS
1	Neuronal Specificity of Acupuncture Response: A fMRI Study with Electroacupuncture. <i>NeuroImage</i> , 2002, 16, 1028-1037.	2.1	258
2	Non-canonical NF- κ B signalling and ETS1/2 cooperatively drive C250T mutant TERT promoter activation. <i>Nature Cell Biology</i> , 2015, 17, 1327-1338.	4.6	178
3	Imaging Brain Deoxyglucose Uptake and Metabolism by Glucocest MRI. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2013, 33, 1270-1278.	2.4	150
4	Model-free functional MRI analysis using Kohonen clustering neural network and fuzzy C-means. <i>IEEE Transactions on Medical Imaging</i> , 1999, 18, 1117-1128.	5.4	141
5	Robust Automatic Rodent Brain Extraction Using 3-D Pulse-Coupled Neural Networks (PCNN). <i>IEEE Transactions on Image Processing</i> , 2011, 20, 2554-2564.	6.0	117
6	Synthesis of Manganese Ferrite/Graphene Oxide Nanocomposites for Biomedical Applications. <i>Small</i> , 2012, 8, 3620-3630.	5.2	113
7	Mapping resting-state functional connectivity using perfusion MRI. <i>NeuroImage</i> , 2008, 40, 1595-1605.	2.1	109
8	Multimodal tumor imaging by iron oxides and quantum dots formulated in poly (lactic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 467 Td (ac 2969-2978.	5.7	106
9	Superparamagnetic iron oxide loaded poly (lactic acid)-d- α -tocopherol polyethylene glycol 1000 succinate copolymer nanoparticles as MRI contrast agent. <i>Biomaterials</i> , 2010, 31, 5588-5597.	5.7	103
10	Detection of functional connectivity in the resting mouse brain. <i>NeuroImage</i> , 2014, 86, 417-424.	2.1	96
11	Gd(III) chelates for MRI contrast agents: from high relaxivity to smart, from blood pool to blood-brain barrier permeable. <i>MedChemComm</i> , 2012, 3, 552.	3.5	93
12	Vitamin E (d-alpha-tocopheryl-co-poly(ethylene glycol) 1000 succinate) micelles-superparamagnetic iron oxide nanoparticles for enhanced radiotherapy and MRI. <i>Biomaterials</i> , 2011, 32, 5663-5672.	5.7	90
13	Specific Inhibition of p25/Cdk5 Activity by the Cdk5 Inhibitory Peptide Reduces Neurodegeneration <i>In Vivo</i> . <i>Journal of Neuroscience</i> , 2013, 33, 334-343.	1.7	87
14	Brain Redox Imaging Using Blood-Brain Barrier-Permeable Nitroxide MRI Contrast Agent. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2008, 28, 1165-1174.	2.4	86
15	Cell labeling for magnetic resonance imaging with the T1 agent manganese chloride. <i>NMR in Biomedicine</i> , 2006, 19, 50-59.	1.6	77
16	Improved neuronal tract tracing using manganese enhanced magnetic resonance imaging with fast T1 mapping. <i>Magnetic Resonance in Medicine</i> , 2006, 55, 604-611.	1.9	77
17	Functional MRI detection of bilateral cortical reorganization in the rodent brain following peripheral nerve deafferentation. <i>NeuroImage</i> , 2007, 37, 262-273.	2.1	75
18	Synthesis of Ferromagnetic Fe _{0.6} Mn _{0.4} O Nanoflowers as a New Class of Magnetic Theranostic Platform for In Vivo T ₁ -T ₂ Dual-Mode Magnetic Resonance Imaging and Magnetic Hyperthermia Therapy. <i>Advanced Healthcare Materials</i> , 2016, 5, 2092-2104.	3.9	75

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19	Novel synthesis of superparamagnetic magnetite nanoclusters for biomedical applications. Journal of Materials Chemistry, 2011, 21, 14717.	6.7	69
20	Ipsilateral cortical fMRI responses after peripheral nerve damage in rats reflect increased interneuron activity. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 14114-14119.	3.3	67
21	IMPACT: Image-based physiological artifacts estimation and correction technique for functional MRI. Magnetic Resonance in Medicine, 2001, 46, 344-353.	1.9	66
22	Caloric restriction preserves memory and reduces anxiety of aging mice with early enhancement of neurovascular functions. Aging, 2016, 8, 2814-2826.	1.4	62
23	Structural and molecular myelination deficits occur prior to neuronal loss in the YAC128 and BACHD models of Huntington disease. Human Molecular Genetics, 2016, 25, ddw122.	1.4	62
24	Manganese enhanced MRI reveals functional circuitry in response to odorant stimuli. NeuroImage, 2009, 44, 363-372.	2.1	61
25	Facile synthesis of water-stable magnetite nanoparticles for clinical MRI and magnetic hyperthermia applications. Nanomedicine, 2010, 5, 1571-1584.	1.7	61
26	Atlas-based automatic mouse brain image segmentation revisited: model complexity vs. image registration. Magnetic Resonance Imaging, 2012, 30, 789-798.	1.0	60
27	Laquinimod rescues striatal, cortical and white matter pathology and results in modest behavioural improvements in the YAC128 model of Huntington disease. Scientific Reports, 2016, 6, 31652.	1.6	59
28	Temporal changes in the T_1 and T_2 relaxation rates (R_1 and R_2) in the rat brain are consistent with the tissue clearance rates of elemental manganese. Magnetic Resonance in Medicine, 2009, 61, 1528-1532.	1.9	55
29	Functional networks and network perturbations in rodents. NeuroImage, 2017, 163, 419-436.	2.1	55
30	Magnetic Resonance Imaging (MRI) Contrast Agents for Tumor Diagnosis. Journal of Healthcare Engineering, 2013, 4, 23-46.	1.1	51
31	Brain plasticity following MI-BCI training combined with tDCS in a randomized trial in chronic subcortical stroke subjects: a preliminary study. Scientific Reports, 2017, 7, 9222.	1.6	51
32	Layer specific tracing of corticocortical and thalamocortical connectivity in the rodent using manganese enhanced MRI. NeuroImage, 2009, 44, 923-931.	2.1	45
33	Pharmacological modulation of functional connectivity: β_2 -adrenergic receptor agonist alters synchrony but not neural activation. NeuroImage, 2012, 60, 436-446.	2.1	45
34	Dissociated roles of the middle frontal gyri in the processing of Chinese characters. NeuroReport, 2006, 17, 1397-1401.	0.6	42
35	Neural correlate of resting-state functional connectivity under β_2 adrenergic receptor agonist, medetomidine. NeuroImage, 2014, 84, 27-34.	2.1	42
36	Evaluation of EPI distortion correction methods for quantitative MRI of the brain at high magnetic field. Magnetic Resonance Imaging, 2015, 33, 1098-1105.	1.0	42

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37	Evaluation of thermo-triggered drug release in intramuscular-transplanted tumors using thermosensitive polymer-modified liposomes and MRI. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2015, 11, 229-238.	1.7	41
38	Accounting for nonspecific enhancement in neuronal tract tracing using manganese enhanced magnetic resonance imaging. <i>Magnetic Resonance Imaging</i> , 2009, 27, 594-600.	1.0	38
39	Stejskalâ€tanner equation derived in full. <i>Concepts in Magnetic Resonance Part A: Bridging Education and Research</i> , 2012, 40A, 205-214.	0.2	38
40	Monitoring dynamic alterations in calcium homeostasis by T_1 -weighted and T_2 -mapping cardiac manganese-enhanced MRI in a murine myocardial infarction model. <i>NMR in Biomedicine</i> , 2008, 21, 1102-1111.	1.6	37
41	Absence of gender effect on children with attention-deficit/hyperactivity disorder as assessed by optimized voxel-based morphometry. <i>Psychiatry Research - Neuroimaging</i> , 2008, 164, 245-253.	0.9	37
42	Functional Networks in Parallel with Cortical Development Associate with Executive Functions in Children. <i>Cerebral Cortex</i> , 2014, 24, 1937-1947.	1.6	37
43	Multispectral optoacoustic and MRI coregistration for molecular imaging of orthotopic model of human glioblastoma. <i>Journal of Biophotonics</i> , 2016, 9, 701-708.	1.1	35
44	Dependence of BOLD signal fluctuation on arterial blood CO ₂ and O ₂ : Implication for resting-state functional connectivity. <i>NeuroImage</i> , 2015, 117, 29-39.	2.1	33
45	In vivo detection of individual glomeruli in the rodent olfactory bulb using manganese enhanced MRI. <i>NeuroImage</i> , 2010, 49, 1350-1356.	2.1	31
46	Quantitative mouse renal perfusion using arterial spin labeling. <i>NMR in Biomedicine</i> , 2013, 26, 1225-1232.	1.6	30
47	Functional connectivity MRI tracks memory networks after maze learning in rodents. <i>NeuroImage</i> , 2016, 127, 196-202.	2.1	30
48	Evaluation of nuisance removal for functional MRI of rodent brain. <i>NeuroImage</i> , 2019, 188, 694-709.	2.1	30
49	Intravoxel incoherent motion and diffusion tensor imaging of early renal fibrosis induced in a murine model of streptozotocin induced diabetes. <i>Magnetic Resonance Imaging</i> , 2017, 38, 71-76.	1.0	28
50	Ultrafast fMRI of the rodent brain using simultaneous multi-slice EPI. <i>NeuroImage</i> , 2019, 195, 48-58.	2.1	27
51	Intravoxel incoherent imaging of renal fibrosis induced in a murine model of unilateral ureteral obstruction. <i>Magnetic Resonance Imaging</i> , 2015, 33, 1324-1328.	1.0	25
52	Temporal dynamics of visual working memory. <i>NeuroImage</i> , 2016, 124, 1021-1030.	2.1	23
53	Transgenic Mice Overexpressing the Divalent Metal Transporter 1 Exhibit Iron Accumulation and Enhanced Parkin Expression in the Brain. <i>NeuroMolecular Medicine</i> , 2017, 19, 375-386.	1.8	21
54	Optimization of flow-sensitive alternating inversion recovery (FAIR) for perfusion functional MRI of rodent brain. <i>NMR in Biomedicine</i> , 2012, 25, 1209-1216.	1.6	19

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55	An intravascular MRI contrast agent based on Gd(DO3A-Lys) for tumor angiography. <i>Biomaterials</i> , 2014, 35, 327-336.	5.7	19
56	Octreotide Functionalized Nano-Contrast Agent for Targeted Magnetic Resonance Imaging. <i>Biomacromolecules</i> , 2016, 17, 3902-3910.	2.6	19
57	GABAergic effect on resting-state functional connectivity: Dynamics under pharmacological antagonism. <i>NeuroImage</i> , 2017, 149, 53-62.	2.1	19
58	Task-related brain functional network reconfigurations relate to motor recovery in chronic subcortical stroke. <i>Scientific Reports</i> , 2021, 11, 8442.	1.6	19
59	Gadolinium chelate with DO3A conjugated 2-(diphenylphosphoryl)-ethyl-diphenylphosphonium cation as potential tumor-selective MRI contrast agent. <i>Biomaterials</i> , 2012, 33, 9225-9231.	5.7	18
60	Superparamagnetic Nanostructures for Off-Resonance Magnetic Resonance Spectroscopic Imaging. <i>Advanced Functional Materials</i> , 2013, 23, 496-505.	7.8	18
61	Connectomic imaging reveals Huntington-related pathological and pharmaceutical effects in a mouse model. <i>NMR in Biomedicine</i> , 2018, 31, e4007.	1.6	18
62	Early detection of antiangiogenic treatment responses in a mouse xenograft tumor model using quantitative perfusion MRI. <i>Cancer Medicine</i> , 2014, 3, 47-60.	1.3	17
63	Modality specificity in the cerebro-cerebellar neurocircuitry during working memory. <i>Behavioural Brain Research</i> , 2016, 305, 164-173.	1.2	17
64	A method for the automatic segmentation of brown adipose tissue. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2016, 29, 287-299.	1.1	17
65	Dysfunction in nonsense-mediated decay, protein homeostasis, mitochondrial function, and brain connectivity in ALS-FUS mice with cognitive deficits. <i>Acta Neuropathologica Communications</i> , 2021, 9, 9.	2.4	17
66	Pharmacological insight into neurotransmission origins of resting-state functional connectivity: β -adrenergic agonist vs antagonist. <i>NeuroImage</i> , 2014, 103, 364-373.	2.1	16
67	Brain Functional Changes in Stroke Following Rehabilitation Using Brain-Computer Interface-Assisted Motor Imagery With and Without tDCS: A Pilot Study. <i>Frontiers in Human Neuroscience</i> , 2021, 15, 692304.	1.0	16
68	Vascular space occupancy-dependent functional MRI by tissue suppression. <i>Journal of Magnetic Resonance Imaging</i> , 2008, 28, 219-226.	1.9	15
69	Quantitative and Noninvasive Assessment of Prenatal X-Ray-Induced CNS Abnormalities Using Magnetic Resonance Imaging. <i>Radiation Research</i> , 2011, 175, 1-9.	0.7	14
70	Relationship between blood and myocardium manganese levels during manganese-enhanced MRI (MEMRI) with T ₁ mapping in rats. <i>NMR in Biomedicine</i> , 2011, 24, 46-53.	1.6	12
71	A facile synthetic approach to a biodegradable polydisulfide MRI contrast agent. <i>Journal of Materials Chemistry B</i> , 2014, 2, 5295-5301.	2.9	12
72	Imaging metabolic syndrome. <i>EMBO Molecular Medicine</i> , 2010, 2, 196-210.	3.3	10

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73	Development of Intravascular Contrast Agents for MRI Using Gadolinium Chelates. <i>ChemMedChem</i> , 2011, 6, 781-787.	1.6	9
74	Protocol for a pilot randomised controlled trial of mindfulness-based cognitive therapy in youth with inflammatory bowel disease and depression. <i>BMJ Open</i> , 2019, 9, e025568.	0.8	9
75	Neurogenic-dependent changes in hippocampal circuitry underlie the procognitive effect of exercise in aging mice. <i>iScience</i> , 2021, 24, 103450.	1.9	9
76	Mapping plasticity in the forepaw digit barrel subfield of rat brains using functional MRI. <i>NeuroImage</i> , 2011, 54, 1122-1129.	2.1	8
77	Application of model-free analysis in the MR assessment of pulmonary perfusion dynamics. <i>Magnetic Resonance in Medicine</i> , 2005, 54, 299-308.	1.9	7
78	Pharmacokinetics of Gd(DO3A ϵ Lys) and MR imaging studies in an orthotopic U87MG glioma tumor model. <i>Contrast Media and Molecular Imaging</i> , 2015, 10, 237-244.	0.4	7
79	Resting state functional connectivity data supports detection of cognition in the rodent brain. <i>Data in Brief</i> , 2016, 7, 1156-1164.	0.5	7
80	Spatial memory training induces morphological changes detected by manganese-enhanced MRI in the hippocampal CA3 mossy fiber terminal zone. <i>NeuroImage</i> , 2016, 128, 227-237.	2.1	7
81	Tissue segmentation-assisted analysis of fMRI for human motor response: an approach combining artificial neural network and fuzzy C means. <i>Journal of Digital Imaging</i> , 2001, 14, 38-47.	1.6	6
82	Quantitative measurement of changes in calcium channel activity in vivo utilizing dynamic manganese-enhanced MRI (dMEMRI). <i>NeuroImage</i> , 2012, 60, 392-399.	2.1	6
83	Magnetic resonance imaging quantification and biodistribution of magnetic nanoparticles using T_1 -enhanced contrast. <i>Journal of Materials Chemistry B</i> , 2018, 6, 1470-1478.	2.9	6
84	Optimization of arterial spin labeling MRI for quantitative tumor perfusion in a mouse xenograft model. <i>NMR in Biomedicine</i> , 2015, 28, 988-997.	1.6	5
85	Differential Amplitude of Low-Frequency Fluctuations in brain networks after BCI Training with and without tDCS in Stroke. , 2018, 2018, 1050-1053.		5
86	IMAGE ANALYSIS OF FUNCTIONAL MAGNETIC RESONANCE IMAGING. <i>Biomedical Engineering - Applications, Basis and Communications</i> , 2001, 13, 248-255.	0.3	4
87	Cerebro-Cerebellar Pathways for Verbal Working Memory. <i>Frontiers in Human Neuroscience</i> , 2018, 12, 530.	1.0	4
88	A Variational Surface Deformation and Subdivision-Based Modeling Framework for Noisy and Small n-Furcated Tube-Like Structures. <i>IEEE Transactions on Biomedical Engineering</i> , 2013, 60, 1589-1598.	2.5	3
89	MEMRI detects neuronal activity and connectivity in hypothalamic neural circuit responding to leptin. <i>NeuroImage</i> , 2017, 147, 904-915.	2.1	3
90	Optimizing diffusion MRI acquisition efficiency of rodent brain using simultaneous multislice EPI. <i>NMR in Biomedicine</i> , 2021, 34, e4398.	1.6	3

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91	The basal forebrain volume reduction detected by MRI does not necessarily link with the cholinergic neuronal loss in the Alzheimer's disease mouse model. <i>Neurobiology of Aging</i> , 2022, 117, 24-32.	1.5	2
92	Deep learning network for integrated coil inhomogeneity correction and brain extraction of mixed MRI data. <i>Scientific Reports</i> , 2022, 12, .	1.6	2
93	RF power duty cycle restrictions of continuous arterial spin labeling coil for 7.0 tesla perfusion magnetic resonance imaging. , 2007, , .		1
94	Improved cardiac manganese-enhanced MRI (MEMRI) with T<inf>1</inf> mapping in rodent. , 2007, , .		1
95	A 300MHz, 48mW analog front-end design for IEEE 802.3an 10GBase-T Ethernet. , 2008, , .		1
96	37.3: Smart Transflective Display Integrated with PDLC and OPVâ€Embeddedâ€OLED. <i>Digest of Technical Papers SID International Symposium</i> , 2009, 40, 530-531.	0.1	1
97	Molecular Photoacoustic Imaging of Orthotopic Glioblastoma. , 2015, , .		1
98	Combining EPI and motion correction for fMRI human brain images with big motion. , 2015, 2015, 5449-52.		1
99	Renal Blood Flow Using Arterial Spin Labeling (ASL) MRI: Experimental Protocol and Principles. <i>Methods in Molecular Biology</i> , 2021, 2216, 443-453.	0.4	1
100	Quantitative Analysis of Renal Perfusion by Arterial Spin Labeling. <i>Methods in Molecular Biology</i> , 2021, 2216, 655-666.	0.4	0
101	Functional MRI of Neural Plasticity and Drug Effect in the Brain. <i>Advances in Intelligent and Soft Computing</i> , 2012, , 17-25.	0.2	0
102	Dynamic Contrast-Enhanced MRI of Mouse Liver: A Feasibility Study Using a Dual-Input Two-Compartment Tracer Kinetic Model. <i>Journal of Biomedical Science and Engineering</i> , 2015, 08, 90-97.	0.2	0