

# Jiun-Jie Wang

## List of Publications by Year in descending order

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79  
papers

3,801  
citations

159525

30  
h-index

128225

60  
g-index

83  
all docs

83  
docs citations

83  
times ranked

6283  
citing authors

#	ARTICLE	IF	CITATIONS
1	Apolipoprotein E Genotype and Sex Risk Factors for Alzheimer Disease. <i>JAMA Neurology</i> , 2017, 74, 1178.	4.5	454
2	Magnetic resonance monitoring of focused ultrasound/magnetic nanoparticle targeting delivery of therapeutic agents to the brain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 15205-15210.	3.3	351
3	Blood-Brain Barrier Disruption with Focused Ultrasound Enhances Delivery of Chemotherapeutic Drugs for Glioblastoma Treatment. <i>Radiology</i> , 2010, 255, 415-425.	3.6	337
4	Detection of lymph node metastasis in cervical and uterine cancers by diffusion-weighted magnetic resonance imaging at 3T. <i>Journal of Magnetic Resonance Imaging</i> , 2008, 28, 128-135.	1.9	213
5	Parkinson Disease: Diagnostic Utility of Diffusion Kurtosis Imaging. <i>Radiology</i> , 2011, 261, 210-217.	3.6	213
6	Myometrial Invasion in Endometrial Cancer: Diagnostic Accuracy of Diffusion-weighted 3.0-T MR Imaging—Initial Experience. <i>Radiology</i> , 2009, 250, 784-792.	3.6	164
7	Hemorrhage Detection During Focused-Ultrasound Induced Blood-Brain-Barrier Opening by Using Susceptibility-Weighted Magnetic Resonance Imaging. <i>Ultrasound in Medicine and Biology</i> , 2008, 34, 598-606.	0.7	124
8	Novel magnetic/ultrasound focusing system enhances nanoparticle drug delivery for glioma treatment. <i>Neuro-Oncology</i> , 2010, 12, 1050-1060.	0.6	115
9	Correlation of apparent diffusion coefficients measured by 3T diffusion-weighted MRI and SUV from FDG PET/CT in primary cervical cancer. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2009, 36, 200-208.	3.3	109
10	Self-Assembled pH-Sensitive Nanoparticles: A Platform for Oral Delivery of Protein Drugs. <i>Advanced Functional Materials</i> , 2010, 20, 3695-3700.	7.8	104
11	In situ preparation of high relaxivity iron oxide nanoparticles by coating with chitosan: A potential MRI contrast agent useful for cell tracking. <i>Journal of Magnetism and Magnetic Materials</i> , 2010, 322, 208-213.	1.0	88
12	The characteristics, biodistribution, magnetic resonance imaging and biodegradability of superparamagnetic core-shell nanoparticles. <i>Biomaterials</i> , 2010, 31, 1316-1324.	5.7	87
13	Enhancement of cell retention and functional benefits in myocardial infarction using human amniotic-fluid stem-cell bodies enriched with endogenous ECM. <i>Biomaterials</i> , 2011, 32, 5558-5567.	5.7	81
14	Cortical control of gait in healthy humans: an fMRI study. <i>Journal of Neural Transmission</i> , 2008, 115, 1149-1158.	1.4	73
15	Injectable PLGA porous beads cellularized by hAFSCs for cellular cardiomyoplasty. <i>Biomaterials</i> , 2012, 33, 4069-4077.	5.7	60
16	Microstructural changes in patients with progressive supranuclear palsy: A diffusion tensor imaging study. <i>Journal of Magnetic Resonance Imaging</i> , 2010, 32, 69-75.	1.9	55
17	Dynamic contrast-enhanced MRI, diffusion-weighted MRI and 18F-FDG PET/CT for the prediction of survival in oropharyngeal or hypopharyngeal squamous cell carcinoma treated with chemoradiation. <i>European Radiology</i> , 2016, 26, 4162-4172.	2.3	55
18	Magnetic-resonance imaging for kinetic analysis of permeability changes during focused ultrasound-induced blood-brain barrier opening and brain drug delivery. <i>Journal of Controlled Release</i> , 2014, 192, 1-9.	4.8	54

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19	International Multicenter Analysis of Brain Structure Across Clinical Stages of Parkinson's Disease. <i>Movement Disorders</i> , 2021, 36, 2583-2594.	2.2	54
20	Clinical Utility of Multimodality Imaging with Dynamic Contrast-Enhanced MRI, Diffusion-Weighted MRI, and 18F-FDG PET/CT for the Prediction of Neck Control in Oropharyngeal or Hypopharyngeal Squamous Cell Carcinoma Treated with Chemoradiation. <i>PLoS ONE</i> , 2014, 9, e115933.	1.1	53
21	18F-FDG PET/CT and 3.0-T whole-body MRI for the detection of distant metastases and second primary tumours in patients with untreated oropharyngeal/hypopharyngeal carcinoma: a comparative study. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2011, 38, 1607-1619.	3.3	51
22	Cortical involvement in a gait-related imagery task: Comparison between Parkinson's disease and normal aging. <i>Parkinsonism and Related Disorders</i> , 2012, 18, 537-542.	1.1	51
23	Dynamic Contrast-Enhanced MR Imaging Predicts Local Control in Oropharyngeal or Hypopharyngeal Squamous Cell Carcinoma Treated with Chemoradiotherapy. <i>PLoS ONE</i> , 2013, 8, e72230.	1.1	49
24	Magnetic resonance imaging enhanced by superparamagnetic iron oxide particles: Usefulness for distinguishing between focused ultrasound-induced blood-brain barrier disruption and brain hemorrhage. <i>Journal of Magnetic Resonance Imaging</i> , 2009, 29, 31-38.	1.9	45
25	Longitudinal study of carbon monoxide intoxication by diffusion tensor imaging with neuropsychiatric correlation. <i>Journal of Psychiatry and Neuroscience</i> , 2010, 35, 115-125.	1.4	40
26	Clinical significance of the pallidoreticular pathway in patients with carbon monoxide intoxication. <i>Brain</i> , 2011, 134, 3632-3646.	3.7	40
27	Acupuncture Effect and Mechanism for Treating Pain in Patients With Parkinson's Disease. <i>Frontiers in Neurology</i> , 2019, 10, 1114.	1.1	39
28	Pretreatment evaluation of distant-site status in patients with nasopharyngeal carcinoma: accuracy of whole-body MRI at 3-Tesla and FDG-PET-CT. <i>European Radiology</i> , 2009, 19, 2965-2976.	2.3	38
29	A longitudinal fixel-based analysis of white matter alterations in patients with Parkinson's disease. <i>NeuroImage: Clinical</i> , 2019, 24, 102098.	1.4	35
30	Pharmacodynamic Analysis of Magnetic Resonance Imaging-Monitored Focused Ultrasound-Induced Blood-Brain Barrier Opening for Drug Delivery to Brain Tumors. <i>BioMed Research International</i> , 2013, 2013, 1-13.	0.9	31
31	Discrimination between Alzheimer's Disease and Mild Cognitive Impairment Using SOM and PSO-SVM. <i>Computational and Mathematical Methods in Medicine</i> , 2013, 2013, 1-10.	0.7	31
32	Vascularization and restoration of heart function in rat myocardial infarction using transplantation of human cbMSC/HUVEC core-shell bodies. <i>Biomaterials</i> , 2012, 33, 2127-2136.	5.7	30
33	Multiparametric imaging using 18F-FDG PET/CT heterogeneity parameters and functional MRI techniques: prognostic significance in patients with primary advanced oropharyngeal or hypopharyngeal squamous cell carcinoma treated with chemoradiotherapy. <i>Oncotarget</i> , 2017, 8, 62606-62621.	0.8	30
34	<i>In vivo</i> Assessment of Macrophage CNS Infiltration during Disruption of the Blood-Brain Barrier with Focused Ultrasound: A Magnetic Resonance Imaging Study. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2010, 30, 177-186.	2.4	28
35	Multi-parametric neuroimaging evaluation of cerebrotendinous xanthomatosis and its correlation with neuropsychological presentations. <i>BMC Neurology</i> , 2010, 10, 59.	0.8	27
36	Characterization of quaternized chitosan-stabilized iron oxide nanoparticles as a novel potential magnetic resonance imaging contrast agent for cell tracking. <i>Polymer International</i> , 2011, 60, 945-950.	1.6	25

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37	The cortical modulation from the external cues during gait observation and imagination. <i>Neuroscience Letters</i> , 2008, 443, 232-235.	1.0	20
38	Preparation, characterization and application of superparamagnetic iron oxide encapsulated with N-[(2-hydroxy-3-trimethylammonium) propyl] chitosan chloride. <i>Carbohydrate Polymers</i> , 2011, 84, 781-787.	5.1	19
39	Noninvasive Monitoring of Microvascular Changes With Partial Irradiation Using Dynamic Contrast-Enhanced and Blood Oxygen Level-Dependent Magnetic Resonance Imaging. <i>International Journal of Radiation Oncology Biology Physics</i> , 2013, 85, 1367-1374.	0.4	17
40	Novel diffusion anisotropy indices: An evaluation. <i>Journal of Magnetic Resonance Imaging</i> , 2006, 24, 211-217.	1.9	16
41	Reduced Encoding Diffusion Spectrum Imaging Implemented With a Bi-Gaussian Model. <i>IEEE Transactions on Medical Imaging</i> , 2008, 27, 1415-1424.	5.4	16
42	Blind estimation of the arterial input function in dynamic contrast-enhanced MRI using purity maximization. <i>Magnetic Resonance in Medicine</i> , 2012, 68, 1439-1449.	1.9	16
43	Deep Learning-Based Brain Computed Tomography Image Classification with Hyperparameter Optimization through Transfer Learning for Stroke. <i>Diagnostics</i> , 2022, 12, 807.	1.3	15
44	Magnetic Resonance Imaging of Mouse Islet Grafts Labeled with Novel Chitosan-Coated Superparamagnetic Iron Oxide Nanoparticles. <i>PLoS ONE</i> , 2013, 8, e62626.	1.1	14
45	Myocardial triglyceride content at 3T cardiovascular magnetic resonance and left ventricular systolic function: a cross-sectional study in patients hospitalized with acute heart failure. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2016, 18, 9.	1.6	14
46	Visualization of the coherence of the principal diffusion orientation: An eigenvector-based approach. <i>Magnetic Resonance in Medicine</i> , 2008, 59, 764-770.	1.9	13
47	Deep learning based diagnosis of Parkinson's Disease using diffusion magnetic resonance imaging. <i>Brain Imaging and Behavior</i> , 2022, 16, 1749-1760.	1.1	13
48	3D DT-MRI using a reduced-FOV approach and saturation pulses. <i>Magnetic Resonance in Medicine</i> , 2004, 51, 853-857.	1.9	10
49	Brain connectivity of patients with Alzheimer's disease by coherence and cross mutual information of electroencephalograms during photic stimulation. <i>Medical Engineering and Physics</i> , 2013, 35, 241-252.	0.8	10
50	Alterations of diffusion tensor MRI parameters in the brains of patients with Parkinson's disease compared with normal brains: possible diagnostic use. <i>European Radiology</i> , 2016, 26, 3978-3988.	2.3	10
51	Fixel-Based Analysis of White Matter Degeneration in Patients With Progressive Supranuclear Palsy or Multiple System Atrophy, as Compared to Parkinson's Disease. <i>Frontiers in Aging Neuroscience</i> , 2021, 13, 625874.	1.7	10
52	Tract-Based Spatial Statistics: Application to Mild Cognitive Impairment. <i>BioMed Research International</i> , 2014, 2014, 1-8.	0.9	9
53	Increased Water Diffusion in the Parcellated Cortical Regions from the Patients with Amnesic Mild Cognitive Impairment and Alzheimer's Disease. <i>Frontiers in Aging Neuroscience</i> , 2016, 8, 325.	1.7	9
54	Left Ventricular Function and Myocardial Triglyceride Content on 3T Cardiac MR Predict Major Cardiovascular Adverse Events and Readmission in Patients Hospitalized with Acute Heart Failure. <i>Journal of Clinical Medicine</i> , 2020, 9, 169.	1.0	9

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55	Computer-Aided Diagnosis of Alzheimer's Disease Using Multiple Features with Artificial Neural Network. Lecture Notes in Computer Science, 2010, , 699-705.	1.0	9
56	Potential in reducing scan times of HARDI by accurate correction of the cross-term in a hemispherical encoding scheme. Journal of Magnetic Resonance Imaging, 2009, 29, 1386-1394.	1.9	8
57	Exploring the Spectrum of Subcortical Hyperintensities and Cognitive Decline. Journal of Neuropsychiatry and Clinical Neurosciences, 2018, 30, 130-138.	0.9	8
58	The effect of spatial resolution on the reproducibility of diffusion imaging when controlled signal to noise ratio. Biomedical Journal, 2019, 42, 268-276.	1.4	8
59	Sex dimorphism of cortical water diffusion in normal aging measured by magnetic resonance imaging. Frontiers in Aging Neuroscience, 2013, 5, 71.	1.7	7
60	Cortical damage in the posterior visual pathway in patients with sialidosis type 1. Brain Imaging and Behavior, 2017, 11, 214-223.	1.1	7
61	A Method for the Prediction of Clinical Outcome Using Diffusion Magnetic Resonance Imaging: Application on Parkinson's Disease. Journal of Clinical Medicine, 2020, 9, 647.	1.0	7
62	Selective averaging for the diffusion tensor measurement. Magnetic Resonance Imaging, 2005, 23, 585-590.	1.0	6
63	Focused ultrasound induced blood-brain barrier disruption to enhance chemotherapeutic drugs (BCNU) delivery for glioblastoma treatment. , 2010, , .		6
64	Prediction of the Clinical Severity of Progressive Supranuclear Palsy by Diffusion Tensor Imaging. Journal of Clinical Medicine, 2020, 9, 40.	1.0	6
65	Magnetic Resonance Imaging of Transplanted Porcine Neonatal Pancreatic Cell Clusters Labeled with Chitosan-Coated Superparamagnetic Iron Oxide Nanoparticles in Mice. Polymers, 2021, 13, 1238.	2.0	6
66	Determination of Fiber Orientation in MRI Diffusion Tensor Imaging Based on Higher-Order Tensor Decomposition. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 2065-8.	0.5	5
67	CCM1 and CCM2 variants in patients with cerebral cavernous malformation in an ethnically Chinese population in Taiwan. Scientific Reports, 2019, 9, 12387.	1.6	5
68	The effects of single-trial averaging on the temporal resolution of functional MRI. Magnetic Resonance Imaging, 2006, 24, 597-602.	1.0	4
69	Noninvasive Tracking of mPEG-poly(Ala) Hydrogel-Embedded MIN6 Cells after Subcutaneous Transplantation in Mice. Polymers, 2021, 13, 885.	2.0	4
70	Diffusion tensor imaging for the differential diagnosis of Parkinsonism by machine learning. Biomedical Journal, 2023, 46, 100541.	1.4	4
71	Exendin-4-Conjugated Manganese Magnetism-Engineered Iron Oxide Nanoparticles as a Potential Magnetic Resonance Imaging Contrast Agent for Tracking Transplanted $\beta$ -Cells. Nanomaterials, 2021, 11, 3145.	1.9	3
72	Functional human brain connectivity during labor and its alteration under epidural analgesia. Brain Imaging and Behavior, 2020, 14, 2647-2658.	1.1	2

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73	An Image-Aided Diagnosis System for Dementia Classification Based on Multiple Features and Self-Organizing Map. Lecture Notes in Computer Science, 2010, , 462-469.	1.0	2
74	Predictive value of 1H MR spectroscopy and 18F-FDG PET/CT for local control of advanced oropharyngeal and hypopharyngeal squamous cell carcinoma receiving chemoradiotherapy: a prospective study. Oncotarget, 2017, 8, 115513-115525.	0.8	2
75	T1 and T2—relaxation time in the parcellated myocardium of healthy Taiwanese participants: A single center study. Biomedical Journal, 2020, , .	1.4	1
76	Oxygen-sensitive T2* magnetic resonance imaging to correlate heart function and ischemic etiology of post-hospitalized chronic heart failure patients. European Journal of Radiology, 2020, 128, 109036.	1.2	1
77	Probability-based prediction model using multivariate and LVQ-PNN for diagnosing dementia. Neuropsychiatry, 2016, 06, .	0.4	1
78	Magnetic Resonance Imaging of Transplanted Porcine Neonatal Pancreatic Cell Clusters Labeled with Exendin-4-Conjugated Manganese Magnetism-Engineered Iron Oxide Nanoparticles. Nanomaterials, 2022, 12, 1222.	1.9	1
79	Diffusion Magnetic Resonance Imaging and Its Applications in Movement Disorders. , 2013, , 49-58.		0