

Zhiyue J Wang

List of Publications by Year in descending order

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90
papers

3,652
citations

159573

30
h-index

133244

59
g-index

90
all docs

90
docs citations

90
times ranked

3972
citing authors

#	ARTICLE	IF	CITATIONS
1	Diffusion tensor imaging of acute mild traumatic brain injury in adolescents. <i>Neurology</i> , 2008, 70, 948-955.	1.1	484
2	Simultaneous in vivo measurements of HbO ₂ saturation and PCr kinetics after exercise in normal humans. <i>Journal of Applied Physiology</i> , 1994, 77, 5-10.	2.5	202
3	A 12-Week Aerobic Exercise Program Reduces Hepatic Fat Accumulation and Insulin Resistance in Obese, Hispanic Adolescents. <i>Obesity</i> , 2010, 18, 384-390.	3.0	198
4	Aspartoacylase gene transfer to the mammalian central nervous system with therapeutic implications for Canavan disease. <i>Annals of Neurology</i> , 2000, 48, 27-38.	5.3	169
5	Development of Human Brain Structural Networks Through Infancy and Childhood. <i>Cerebral Cortex</i> , 2015, 25, 1389-1404.	2.9	165
6	MR diffusion imaging and MR spectroscopy of maple syrup urine disease during acute metabolic decompensation. <i>Neuroradiology</i> , 2003, 45, 393-399.	2.2	157
7	Strength Exercise Improves Muscle Mass and Hepatic Insulin Sensitivity in Obese Youth. <i>Medicine and Science in Sports and Exercise</i> , 2010, 42, 1973-1980.	0.4	136
8	In vivo MRS measurement of deoxymyoglobin in human forearms. <i>Magnetic Resonance in Medicine</i> , 1990, 14, 562-567.	3.0	113
9	NMR study of the structure and motion of charge density waves in NbSe ₃ . <i>Physical Review Letters</i> , 1986, 56, 663-666.	7.8	102
10	Proton Magnetic Resonance Spectroscopy of Pediatric Brain Tumors. <i>Neurosurgery</i> , 1992, 31, 195-202.	1.1	101
11	Regional variation in brain lactate in leigh syndrome by localized 1H magnetic resonance spectroscopy. <i>Annals of Neurology</i> , 1991, 29, 218-221.	5.3	92
12	Feeling sounds after a thalamic lesion. <i>Annals of Neurology</i> , 2007, 62, 433-441.	5.3	84
13	NMR Studies of Simple Molecules on Metal Surfaces. <i>Science</i> , 1986, 234, 35-41.	12.6	76
14	Prediction of posterior fossa tumor type in children by means of magnetic resonance image properties, spectroscopy, and neural networks. <i>Journal of Neurosurgery</i> , 1997, 86, 755-761.	1.6	75
15	In vivo measurement of brain metabolites using two-dimensional double-quantum MR spectroscopy?exploration of GABA levels in a ketogenic diet. <i>Magnetic Resonance in Medicine</i> , 2003, 49, 615-619.	3.0	74
16	Computer-generated holograms: A simplified ray-tracing approach. <i>Computers in Physics</i> , 1992, 6, 389.	0.5	72
17	In vivo evidence of brain galactitol accumulation in an infant with galactosemia and encephalopathy. <i>Journal of Pediatrics</i> , 2001, 138, 260-262.	1.8	68
18	Use of computed tomography, magnetic resonance imaging, and localized 1H magnetic resonance spectroscopy in canavan's disease: A case Report. <i>Annals of Neurology</i> , 1991, 30, 106-110.	5.3	66

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19	Prognostic value of proton MR spectroscopy of cerebral hemisphere tumors in children. <i>Neuroradiology</i> , 1998, 40, 121-125.	2.2	59
20	Evaluation of iron overload by single voxel MRS measurement of liver T2. <i>Journal of Magnetic Resonance Imaging</i> , 2002, 15, 395-400.	3.4	55
21	Proton MR spectroscopy of the brain: clinically useful information obtained in assessing CNS diseases in children.. <i>American Journal of Roentgenology</i> , 1996, 167, 191-199.	2.2	54
22	High-resolution ¹ H-magnetic resonance spectroscopy of pediatric posterior fossa tumors in vitro. <i>Journal of Neurosurgery</i> , 1994, 81, 443-448.	1.6	51
23	Magnetic Resonance Imaging Measurement of Volume Magnetic Susceptibility Using a Boundary Condition. <i>Journal of Magnetic Resonance</i> , 1999, 140, 477-481.	2.1	51
24	Proton Spectroscopy of Suprasellar Tumors in Pediatric Patients. <i>Neurosurgery</i> , 1997, 41, 388-395.	1.1	46
25	Tissue Lactate in Pediatric Head Trauma: A Clinical Study Using ¹ H NMR Spectroscopy. <i>Pediatric Neurosurgery</i> , 1995, 22, 81-87.	0.7	41
26	Proton magnetic resonance spectroscopy of brain metabolites in galactosemia. <i>Annals of Neurology</i> , 2001, 50, 266-269.	5.3	40
27	In vivo brain myo -inositol levels in children with Down syndrome. <i>Journal of Pediatrics</i> , 1999, 135, 94-97.	1.8	39
28	Diffusion tensor imaging of hemispheric asymmetries in the developing brain. <i>Journal of Clinical and Experimental Neuropsychology</i> , 2009, 31, 205-218.	1.3	35
29	Multiple-Quantum Filters of Spin- with Pulses of Arbitrary Flip Angle. <i>Journal of Magnetic Resonance Series B</i> , 1994, 104, 148-152.	1.6	33
30	Brain Activation during Working Memory after Traumatic Brain Injury in Children. <i>Neurocase</i> , 2007, 13, 16-24.	0.6	32
31	Pancreatic iron and fat assessment by MRI-R2* in patients with iron overload diseases. <i>Journal of Magnetic Resonance Imaging</i> , 2015, 42, 196-203.	3.4	32
32	¹ H MR spectroscopy of the basal ganglia in childhood: a semiquantitative analysis. <i>Neuroradiology</i> , 1998, 40, 315-323.	2.2	31
33	NMR studies of NbSe ₃ : Electronic structures, static charge-density-wave measurements, and observations of the moving charge-density wave. <i>Physical Review B</i> , 1990, 41, 2722-2734.	3.2	29
34	MR SPECTROSCOPY IN PEDIATRIC NEURORADIOLOGY. <i>Magnetic Resonance Imaging Clinics of North America</i> , 2001, 9, 165-189.	1.1	29
35	Advances in pediatric neuroimaging. <i>Brain and Development</i> , 1998, 20, 275-289.	1.1	26
36	A quality assurance protocol for diffusion tensor imaging using the head phantom from American College of Radiology. <i>Medical Physics</i> , 2011, 38, 4415-4421.	3.0	26

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37	Fertility in transfusion-dependent thalassemia men: Effects of iron burden on the reproductive axis. <i>American Journal of Hematology</i> , 2015, 90, E190-2.	4.1	25
38	Sensitivity of in vivo mrs of the n- $\hat{1}$ proton in proximal histidine of deoxymyoglobin. <i>Magnetic Resonance in Medicine</i> , 1992, 27, 362-367.	3.0	23
39	A method for fast multislice T1 measurement: Feasibility studies on phantoms, young children, and children with canavan's disease. <i>Journal of Magnetic Resonance Imaging</i> , 2000, 11, 360-367.	3.4	23
40	MRI measurement of hepatic magnetic susceptibility?Phantom validation and normal subject studies. <i>Magnetic Resonance in Medicine</i> , 2004, 52, 1318-1327.	3.0	23
41	Nuclear magnetic resonance study of Pt-Rh bimetallic clusters. <i>Journal of the Chemical Society Faraday Transactions I</i> , 1988, 84, 3785.	1.0	22
42	1/T2 and Magnetic Susceptibility Measurements in a Gerbil Cardiac Iron Overload Model. <i>Radiology</i> , 2005, 234, 749-755.	7.3	20
43	Minimum SNR and acquisition for bias-free estimation of fractional anisotropy in diffusion tensor imaging - a comparison of two analytical techniques and field strengths. <i>Magnetic Resonance Imaging</i> , 2012, 30, 1123-1133.	1.8	20
44	Age-related variations in white matter anisotropy in school-age children. <i>Pediatric Radiology</i> , 2010, 40, 1918-1930.	2.0	19
45	The relationship of resting cerebral blood flow and brain activation during a social cognition task in adolescents with chronic moderate to severe traumatic brain injury: a preliminary investigation. <i>International Journal of Developmental Neuroscience</i> , 2012, 30, 255-266.	1.6	19
46	Investigation of stroke in sickle cell disease by ^1H nuclear magnetic resonance spectroscopy. <i>Neuroradiology</i> , 1992, 35, 57-65.	2.2	18
47	Measurement and evaluation of specific absorption rate and temperature elevation caused by an artificial hip joint during MRI scanning. <i>Scientific Reports</i> , 2021, 11, 1134.	3.3	18
48	Assessment of cardiac iron by MRI susceptometry and $\text{R}2^*$ in patients with thalassemia. <i>Magnetic Resonance Imaging</i> , 2010, 28, 363-371.	1.8	17
49	Diffusion Tensor Imaging of Dystrophic Skeletal Muscle. <i>Clinical Neuroradiology</i> , 2019, 29, 231-242.	1.9	17
50	Simulation of Mb/Hb in NIRS and Oxygen Gradient in the Human and Canine Skeletal Muscles Using H-NMR and NIRS. <i>Advances in Experimental Medicine and Biology</i> , 2006, 578, 223-228.	1.6	17
51	Errors of fourier chemical-shift imaging and their corrections. <i>Journal of Magnetic Resonance</i> , 1991, 92, 64-72.	0.5	16
52	NMR visibility studies of N- $\hat{1}$ proton of proximal histidine in deoxyhemoglobin in lysed and intact red cells. <i>Magnetic Resonance in Medicine</i> , 1993, 30, 759-763.	3.0	16
53	MRI scanner-independent specific absorption rate measurements using diffusion coefficients. <i>Journal of Applied Clinical Medical Physics</i> , 2017, 18, 224-229.	1.9	14
54	A simplified sequence for observing deoxymyoglobin signals in vivo: Myoglobin excitation with dynamic unexcitation and saturation of water and fat (MEDUSA). <i>Magnetic Resonance in Medicine</i> , 1997, 38, 788-792.	3.0	13

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55	Brain Proton Magnetic Resonance Spectroscopy and Neuromuscular Pathology in a Patient With GM1 Gangliosidosis. <i>Journal of Child Neurology</i> , 2008, 23, 73-78.	1.4	13
56	Towards a complete coil array. <i>Magnetic Resonance Imaging</i> , 2008, 26, 1310-1315.	1.8	12
57	Magnetic susceptibility quantitation with MRI by solving boundary value problems. <i>Medical Physics</i> , 2003, 30, 449-453.	3.0	11
58	Improving SNR of RF coils using composite coil elements. <i>NMR in Biomedicine</i> , 2009, 22, 952-959.	2.8	11
59	Correcting the effects of background microcirculation in the measurement of arterial input functions using dynamic susceptibility contrast MRI of the brain. <i>Magnetic Resonance Imaging</i> , 2006, 24, 619-623.	1.8	10
60	Diffusion tensor imaging metrics in neonates—a comparison of manual region-of-interest analysis vs. tract-based spatial statistics. <i>Pediatric Radiology</i> , 2013, 43, 69-79.	2.0	10
61	Peak Filling Rates Assessed by CMR Imaging Indicate Diastolic Dysfunction From Myocardial Iron Toxicity. <i>JACC: Cardiovascular Imaging</i> , 2016, 9, 1353-1354.	5.3	9
62	An RF field pattern with improved B1 amplitude homogeneity. <i>Concepts in Magnetic Resonance Part B</i> , 2005, 24B, 1-5.	0.7	7
63	Induced magnetic moment in stainless steel components of orthodontic appliances in 1.5 T MRI scanners. <i>Medical Physics</i> , 2015, 42, 5871-5878.	3.0	7
64	Feasibility of peripheral nerve MR neurography using diffusion tensor imaging adapted to skeletal muscle disease. <i>Acta Radiologica</i> , 2018, 59, 560-568.	1.1	7
65	Reduction of bias in the evaluation of fractional anisotropy and mean diffusivity in magnetic resonance diffusion tensor imaging using region-of-interest methodology. <i>Scientific Reports</i> , 2019, 9, 13095.	3.3	7
66	Achieving plane-wise uniform B1 amplitude in a 3D volume for high-field MRI: A computer simulation study. <i>Journal of Magnetic Resonance Imaging</i> , 2006, 24, 218-225.	3.4	6
67	Improvement of Reliability of Diffusion Tensor Metrics in Thigh Skeletal Muscles. <i>European Journal of Radiology</i> , 2018, 102, 55-60.	2.6	6
68	Radio-frequency losses of YBa ₂ Cu ₃ O _{7-x} composite superconductors. <i>Superconductor Science and Technology</i> , 1988, 1, 24-26.	3.5	5
69	Assessment of diffusion tensor image quality across sites and vendors using the American College of Radiology head phantom. <i>Journal of Applied Clinical Medical Physics</i> , 2016, 17, 442-451.	1.9	5
70	Pituitary iron and factors predictive of fertility status in transfusion dependent thalassemia. <i>Haematologica</i> , 2021, 106, 1740-1744.	3.5	5
71	Vascular transit times in calcarine cortex: Kinetic analysis of R ₂ * changes observed using localized 1H spectroscopy. <i>Magnetic Resonance in Medicine</i> , 1995, 34, 326-330.	3.0	4
72	Postmortem 31 P magnetic resonance spectroscopy of the skeletal muscle: $\hat{\gamma}$ -ATP/Pi ratio as a forensic tool?. <i>Forensic Science International</i> , 2014, 242, 172-176.	2.2	4

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73	Signal-to-noise assessment for diffusion tensor imaging with single data set and validation using a difference image method with data from a multicenter study. <i>Medical Physics</i> , 2014, 41, 092302.	3.0	4
74	Obesity-Related Metabolic Risk in Sedentary Hispanic Adolescent Girls with Normal BMI. <i>Children</i> , 2018, 5, 79.	1.5	4
75	Flow measurement by \sim Doppler shift \sim nuclear magnetic resonance. <i>Journal of Chemical Physics</i> , 1989, 90, 3396-3398.	3.0	3
76	Proton magnetic resonance spectroscopy. <i>Critical Reviews in Neurosurgery: CR</i> , 1999, 9, 161-166.	0.2	3
77	Signal-to-noise ratio assessment of muscle diffusion tensor imaging using single image set and validation by the difference image method. <i>British Journal of Radiology</i> , 2019, 92, 20190133.	2.2	3
78	Correcting B0 Field Distortions in MRI Caused by Stainless Steel Orthodontic Appliances at 1.5 T Using Permanent Magnets – A Head Phantom Study. <i>Scientific Reports</i> , 2018, 8, 5706.	3.3	2
79	Probing an AI regression model for hand bone age determination using gradient-based saliency mapping. <i>Scientific Reports</i> , 2021, 11, 10610.	3.3	2
80	MRI Assessment of Pituitary Iron and Volume in Thalassemia, and Relation to Hypothalamic-Pituitary-Gonadal Axis Function (HPG): A Feasibility Study.. <i>Blood</i> , 2006, 108, 1778-1778.	1.4	2
81	Iron Trafficking and Distribution in Transfusional Overload: Insights From Comparing Diamond Blackfan Anemia with Sickle Cell Disease and Thalassemia. <i>Blood</i> , 2012, 120, 995-995.	1.4	2
82	Theory of selective excitation by scaled frequency-amplitude sweep. <i>Journal of Magnetic Resonance</i> , 1989, 81, 617-622.	0.5	1
83	Selective spin inversion by adiabatic B1 sweep. <i>Journal of Magnetic Resonance</i> , 1989, 82, 174-179.	0.5	1
84	Spectral localization of arbitrarily shaped regions of interest (SLASH) using single voxel signals. <i>Magnetic Resonance Imaging</i> , 1993, 11, 1203-1208.	1.8	1
85	Anterior Pituitary Volume in Patients with Transfusion Dependent Anemias: Volumetric Approaches and Relation to Pituitary MRI \leq R2. <i>Clinical Neuroradiology</i> , 2021, , 1.	1.9	1
86	Limitations of Surface Current Model of Magnetic Field and a Remedy. <i>IEEE Access</i> , 2022, 10, 3206-3215.	4.2	1
87	Improvement of measurement precision in absorption spectra by apodization. <i>Magnetic Resonance in Medicine</i> , 1996, 35, 917-920.	3.0	0
88	Prediction of posterior fossa tumor type in children by means of magnetic resonance image properties, spectroscopy, and neural networks. <i>Neurosurgical Focus</i> , 1997, 2, E2.	2.3	0
89	Correlation between diffusion kurtosis and NODDI metrics in neonates and young children. , 2016, , .		0
90	Quality Assurance and Control Issues in Multi-Center Diffusion Tensor Imaging Studies. <i>Current Medical Imaging</i> , 2015, 11, 207-215.	0.8	0