

Xin Yu

List of PR Articles by Year in descending order

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PR citations

81898

35

PR h-index

101540

60

g-index

128

documents

5743

doc citations

63620

41

h-index

7343

citing authors

#	ARTICLE	IF	PR CITATIONS
1	<sc>3D MR</sc> fingerprinting for dynamic contrast-enhanced imaging of whole mouse brain. Magnetic Resonance in Medicine, 2025, 93, 67-79.	2.8	3
2	Deep learning-assisted preclinical MR fingerprinting for sub-millimeter T ₁ and T ₂ mapping of entire macaque brain. Magnetic Resonance in Medicine, 2024, 91, 1149-1164.	2.8	4
3	One-step zwitterionization and quaternization of thick PDMAEMA layer grafted through subsurface-initiated ATRP for robust antibiofouling and antibacterial coating on PDMS. Journal of Colloid and Interface Science, 2022, 610, 234-245.	9.9	39
4	Three-dimensional high-resolution T ₁ and T ₂ mapping of whole macaque brain at 9.4 T using magnetic resonance fingerprinting. Magnetic Resonance in Medicine, 2022, 87, 2901-2913.	2.8	5
5	Emerging Biopolymer-Based Bioadhesives. Macromolecular Bioscience, 2022, 22, .	4.0	52
6	Processing-Structure-Properties Relationships of Glycerol-Plasticized Silk Films. Molecules, 2022, 27, 1339.	4.3	30
7	Magnetic resonance imaging of cystic fibrosis: Multi-organ imaging in the age of CFTR modulator therapies. Journal of Cystic Fibrosis, 2022, 21, e148-e157.	0.8	8
8	Impaired neurogenesis alters brain biomechanics in a neuroprogenitor-based genetic subtype of congenital hydrocephalus. Nature Neuroscience, 2022, 25, 458-473.	17.1	90
9	Clinical Application of C-TIRADS Category and Contrast-Enhanced Ultrasound in Differential Diagnosis of Solid Thyroid Nodules Measuring ≥ 1 cm. Medical Science Monitor, 2022, 28, .	1.4	8
10	3D magnetic resonance fingerprinting with quadratic RF phase. Magnetic Resonance in Medicine, 2021, 85, 2084-2094.	2.8	21
11	Quantification of creatine kinase reaction rate in mouse hindlimb using phosphorus-31 magnetic resonance spectroscopic fingerprinting. NMR in Biomedicine, 2021, 34, .	2.4	2
12	A suite of neurophotonic tools to underpin the contribution of internal brain states in fMRI. Current Opinion in Biomedical Engineering, 2021, 18, 100273.	2.8	7
13	A line through the brain: implementation of human line-scanning at 7T for ultra-high spatiotemporal resolution fMRI. Journal of Cerebral Blood Flow and Metabolism, 2021, 41, 2831-2843.	4.8	32
14	Dynamic oxygen-17 MRI with adaptive temporal resolution using golden-means-based 3D radial sampling. Magnetic Resonance in Medicine, 2021, 85, 3112-3124.	2.8	1
15	Fast high-resolution metabolic imaging of acute stroke with 3D magnetic resonance spectroscopy. Brain, 2020, 143, 3225-3233.	8.5	38
16	<i>Lycium barbarum</i> polysaccharides protect mice from hyperuricaemia through promoting kidney excretion of uric acid and inhibiting liver xanthine oxidase. Pharmaceutical Biology, 2020, 58, 944-949.	4.6	43
17	High-Resolution Dynamic ³¹ P-MR Spectroscopic Imaging for Mapping Mitochondrial Function. IEEE Transactions on Biomedical Engineering, 2020, 67, 2745-2753.	3.3	14
18	Piezopotential augmented photo- and photoelectro-catalysis with a built-in electric field. Chinese Journal of Catalysis, 2020, 41, 534-549.	16.4	130

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19	Imaging Guidance for Therapeutic Delivery: The Dawn of Neuroenergetics. <i>Neurotherapeutics</i> , 2020, 17, 522-538.	6.2	2
20	Increased cerebral vascularization and decreased water exchange across the blood-brain barrier in aquaporin-4 knockout mice. <i>PLoS ONE</i> , 2019, 14, e0218415.	2.4	36
21	Physalis Mottle Virus-like Nanoparticles for Targeted Cancer Imaging. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 18213-18223.	8.0	56
22	Identity-Preserving Face Recovery from Stylized Portraits. <i>International Journal of Computer Vision</i> , 2019, 127, 863-883.	6.2	19
23	Electrochemical detection of DNA hybridization based on three-dimensional ZnO nanowires/graphite hybrid microfiber structure. <i>Bioelectrochemistry</i> , 2019, 128, 126-132.	4.4	28
24	Dynamic, Simultaneous Concentration Mapping of Multiple MRI Contrast Agents with Dual Contrast - Magnetic Resonance Fingerprinting. <i>Scientific Reports</i> , 2019, 9, .	3.5	9
25	Effective MR Molecular Imaging of Triple Negative Breast Cancer With an EDB-Fibronectin-Specific Contrast Agent at Reduced Doses. <i>Frontiers in Oncology</i> , 2019, 9, .	2.7	25
26	Magnetic resonance fingerprinting with quadratic RF phase for measurement of T_2^* simultaneously with T_1 , and T_2 . <i>Magnetic Resonance in Medicine</i> , 2019, 81, 1849-1862.	2.8	47
27	High-resolution dynamic oxygen-17 MR imaging of mouse brain with golden-ratio-based radial sampling and k-space-weighted image reconstruction. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 256-263.	2.8	4
28	Fast magnetic resonance fingerprinting for dynamic contrast-enhanced studies in mice. <i>Magnetic Resonance in Medicine</i> , 2018, 80, 2681-2690.	2.8	22
29	Preliminary comparison of normalized T1 and non-contrast perfusion MRI assessments of regional lung disease in cystic fibrosis patients. <i>Journal of Cystic Fibrosis</i> , 2017, 16, 283-290.	0.8	16
30	Discovery of 1,2,3-Triazole Derivatives for Multimodality PET/CT/Cryoimaging of Myelination in the Central Nervous System. <i>Journal of Medicinal Chemistry</i> , 2017, 60, 987-999.	5.6	22
31	Targeted Contrast Agent Specific to an Oncoprotein in Tumor Microenvironment with the Potential for Detection and Risk Stratification of Prostate Cancer with MRI. <i>Bioconjugate Chemistry</i> , 2017, 28, 1031-1040.	3.9	49
32	Prolylcarboxypeptidase deficiency is associated with increased blood pressure, glomerular lesions, and cardiac dysfunction independent of altered circulating and cardiac angiotensin II. <i>Journal of Molecular Medicine</i> , 2017, 95, 473-486.	3.8	52
33	Poststroke Sonic Hedgehog Agonist Treatment Improves Functional Recovery by Enhancing Neurogenesis and Angiogenesis. <i>Stroke</i> , 2017, 48, 1636-1645.	6.0	100
34	High-resolution dynamic ^{31}P -MRSI using a low-rank tensor model. <i>Magnetic Resonance in Medicine</i> , 2017, 78, 419-428.	2.8	48
35	Hierarchical porous carbon with ordered straight micro-channels templated by continuous filament glass fiber arrays for high performance supercapacitors. <i>Journal of Materials Chemistry A</i> , 2017, 5, 1516-1525.	9.3	67
36	Optical and Magnetic Resonance Imaging Using Fluorous Colloidal Nanoparticles. <i>Biomacromolecules</i> , 2017, 18, 103-112.	5.2	34

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37	Dysprosium-Modified Tobacco Mosaic Virus Nanoparticles for Ultra-High-Field Magnetic Resonance and Near-Infrared Fluorescence Imaging of Prostate Cancer. <i>ACS Nano</i> , 2017, 11, 9249-9258.	15.3	100
38	Dual Contrast - Magnetic Resonance Fingerprinting (DC-MRF): A Platform for Simultaneous Quantification of Multiple MRI Contrast Agents. <i>Scientific Reports</i> , 2017, 7, .	3.5	32
39	³¹ P magnetic resonance fingerprinting for rapid quantification of creatine kinase reaction rate <i>in vivo</i> . <i>NMR in Biomedicine</i> , 2017, 30, .	2.4	34
40	Nanostructured titanium foam with metal ions incorporation for promoting osteogenic differentiation of mesenchymal stem cells. <i>Journal of Alloys and Compounds</i> , 2017, 729, 816-822.	6.0	7
41	CONSORT. <i>Medicine (United States)</i> , 2017, 96, e6359.	1.3	10
42	Assessing tissue metabolism by phosphorous-31 magnetic resonance spectroscopy and imaging: a methodology review. <i>Quantitative Imaging in Medicine and Surgery</i> , 2017, 7, 707-716.	1.5	76
43	Rapid T_2 mapping of mouse heart using the Carr-Purcell-Meiboom-Gill sequence and compressed sensing reconstruction. <i>Journal of Magnetic Resonance Imaging</i> , 2016, 44, 375-382.	3.5	14
44	Mitochondrial function assessed by ³¹ P MRS and BOLD MRI in non-obese type 2 diabetic rats. <i>Physiological Reports</i> , 2016, 4, .	1.7	17
45	Construction of titanium dioxide nanorod/graphite microfiber hybrid electrodes for a high performance electrochemical glucose biosensor. <i>Nanoscale</i> , 2016, 8, 9382-9389.	5.0	45
46	Self-templated synthesis of TiO ₂ hierarchical structure photocatalyst with high efficiency and good sedimentation property. <i>Applied Physics A: Materials Science and Processing</i> , 2016, 122, .	2.6	5
47	The impact of Cystic Fibrosis Transmembrane Regulator Disruption on cardiac function and stress response. <i>Journal of Cystic Fibrosis</i> , 2016, 15, 34-42.	0.8	23
48	A titanium dioxide nanorod array as a high-affinity nano-bio interface of a microfluidic device for efficient capture of circulating tumor cells. <i>Nano Research</i> , 2016, 10, 776-784.	8.6	25
49	The Structural Basis of Functional Improvement in Response to Human Umbilical Cord Blood Stem Cell Transplantation in Hearts with Postinfarct LV Remodeling. <i>Cell Transplantation</i> , 2015, 24, 971-983.	2.7	12
50	An Impedimetric-Fluorescence Double-Checking Biosensor with Enhanced Reliability Based on Graphene Oxide. <i>Advanced Materials Interfaces</i> , 2015, 2, .	4.1	3
51	Manganese-Enhanced MRI for Preclinical Evaluation of Retinal Degeneration Treatments. , 2015, 56, 4936.		14
52	Removing blur kernel noise via a hybrid p norm. <i>Journal of Electronic Imaging</i> , 2015, 24, 013011.	0.9	4
53	Rapid multislice T_1 mapping of mouse myocardium: Application to quantification of manganese uptake in Δ -Dystrobrein knockout mice. <i>Magnetic Resonance in Medicine</i> , 2015, 74, 1370-1379.	2.8	10
54	Shaping bio-inspired nanotechnologies to target thrombosis for dual optical-magnetic resonance imaging. <i>Journal of Materials Chemistry B</i> , 2015, 3, 6037-6045.	5.6	74

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55	Warm needling moxibustion at Zhongji (CV 3) and Zusanli (ST 36) for urinary retention after gynecological surgery. <i>Journal of Acupuncture and Tuina Science</i> , 2014, 12, 379-382.	0.5	2
56	Lack of dystrophin results in abnormal cerebral diffusion and perfusion in vivo. <i>NeuroImage</i> , 2014, 102, 809-816.	4.4	26
57	Dual-Modal Magnetic Resonance and Fluorescence Imaging of Atherosclerotic Plaques in Vivo Using VCAM-1 Targeted Tobacco Mosaic Virus. <i>Nano Letters</i> , 2014, 14, 1551-1558.	8.7	162
58	Arterial spin labelingâ€fast imaging with steadyâ€state free precession (ASLâ€FISP): a rapid and quantitative perfusion technique for highâ€field MRI. <i>NMR in Biomedicine</i> , 2014, 27, 996-1004.	2.4	31
59	Engineering Gd-loaded nanoparticles to enhance MRI sensitivity via T_1 shortening. <i>Nanotechnology</i> , 2013, 24, 462001.	2.7	73
60	Tobacco mosaic virus rods and spheres as supramolecular high-relaxivity MRI contrast agents. <i>Journal of Materials Chemistry B</i> , 2013, 1, 1482.	5.6	98
61	Inducible re-expression of HEXIM1 causes physiological cardiac hypertrophy in the adult mouse. <i>Cardiovascular Research</i> , 2013, 99, 74-82.	5.7	17
62	Physiological Assessment Of The PEPCKâ€mus Mouse Heart. A Mouse Model Of An Athletic Heart Without Imposed Training?. <i>FASEB Journal</i> , 2013, 27, .	0.7	0
63	Comparison of Velocity Vector Imaging Echocardiography With Magnetic Resonance Imaging in Mouse Models of Cardiomyopathy. <i>Circulation: Cardiovascular Imaging</i> , 2012, 5, 776-781.	3.3	21
64	Cardiac Myosin Binding Protein C Insufficiency Leads to Early Onset of Mechanical Dysfunction. <i>Circulation: Cardiovascular Imaging</i> , 2012, 5, 127-136.	3.3	23
65	Stereotactic radiosurgery to treat presumed Rathke's cleft cysts. <i>British Journal of Neurosurgery</i> , 2012, 26, 684-691.	1.7	7
66	Normalizing the metabolic phenotype after myocardial infarction: Impact of subchronic high fat feeding. <i>Journal of Molecular and Cellular Cardiology</i> , 2012, 53, 125-133.	3.9	25
67	Infrasellar craniopharyngioma. <i>Clinical Neurology and Neurosurgery</i> , 2012, 114, 112-119.	1.4	18
68	Fast cardiac T_1 mapping in mice using a modelâ€based compressed sensing method. <i>Magnetic Resonance in Medicine</i> , 2012, 68, 1127-1134.	2.8	44
69	Inhibition of the sodiumâ€calcium exchanger via SEA0400 altered manganeseâ€induced T_1 changes in isolated perfused rat hearts. <i>NMR in Biomedicine</i> , 2012, 25, 1280-1285.	2.4	11
70	Assessing mitochondrial respiration in isolated hearts using ^{17}O MRS. <i>NMR in Biomedicine</i> , 2012, 25, 883-889.	2.4	12
71	Inducible reexpression of HEXIM1 activates physiological rather than pathological responses in the adult heart. <i>FASEB Journal</i> , 2012, 26, .	0.7	0
72	Morphological and functional midbrain phenotypes in Fibroblast Growth Factor 17 mutant mice detected by Mn-enhanced MRI. <i>NeuroImage</i> , 2011, 56, 1251-1258.	4.4	15

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73	Delineation of substrate selection and anaplerosis in tricarboxylic acid cycle of the heart by ¹³ C NMR spectroscopy and mass spectrometry. <i>NMR in Biomedicine</i> , 2011, 24, 176-187.	2.4	11
74	Alterations in myosin heavy chain and cell shortening velocity improve myocardial contractile function in high-fat fed heart failure rats. <i>FASEB Journal</i> , 2011, 25, .	0.7	0
75	Quantification of myocardial strain at early systole in mouse heart: Restoration of undeformed tagging grid with single-point HARP. <i>Journal of Magnetic Resonance Imaging</i> , 2010, 32, 608-614.	3.5	11
76	Strain and torsion quantification in mouse hearts under dobutamine stimulation using 2D multiphase MR DENSE. <i>Magnetic Resonance in Medicine</i> , 2010, 64, 1315-1322.	2.8	25
77	Rapid ¹ mapping of mouse myocardium with saturation recovery look-locker method. <i>Magnetic Resonance in Medicine</i> , 2010, 64, 1296-1303.	2.8	57
78	Altered in vivo left ventricular torsion and principal strains in hypothyroid rats. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2010, 299, H1577-H1587.	3.7	12
79	The role of calcium handling in the improved contractile function associated with high-fat feeding in heart failure. <i>FASEB Journal</i> , 2010, 24, .	0.7	0
80	Transmural myocardial strain in mouse: Quantification of high-resolution MR tagging using harmonic phase (HARP) analysis. <i>Magnetic Resonance in Medicine</i> , 2009, 61, 1368-1373.	2.8	16
81	<i>Ex vivo</i> diffusion tensor MRI reflects microscopic structural remodeling associated with aging and disease progression in normal and cardiomyopathic Syrian hamsters. <i>NMR in Biomedicine</i> , 2009, 22, 819-825.	2.4	19
82	Early manifestation of alteration in cardiac function in dystrophin deficient mdx mouse using 3D CMR tagging. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2009, 11, 40.	4.5	60
83	Characterization of three-dimensional myocardial deformation in the mouse heart: An MR tagging study. <i>Journal of Magnetic Resonance Imaging</i> , 2008, 27, 1263-1270.	3.5	28
84	Role of the malate-aspartate shuttle on the metabolic response to myocardial ischemia. <i>Journal of Theoretical Biology</i> , 2008, 254, 466-475.	1.7	71
85	Statistical mapping of sound-evoked activity in the mouse auditory midbrain using Mn-enhanced MRI. <i>NeuroImage</i> , 2008, 39, 223-230.	4.4	64
86	Prolylcarboxypeptidase Murine Hypomorphs Are Hypertensive and Prothrombotic. <i>Blood</i> , 2008, 112, 3915-3915.	4.2	2
87	Large-scale reorganization of the tonotopic map in mouse auditory midbrain revealed by MRI. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 12193-12198.	7.6	75
88	Mechanoelectrical Feedback as Novel Mechanism of Cardiac Electrical Remodeling. <i>Circulation</i> , 2007, 115, 3145-3155.	25.2	114
89	Multiple gliomas. <i>Chinese Journal of Clinical Oncology</i> , 2007, 4, 379-383.	0.0	5
90	Paradoxical Increase in Ventricular Torsion and Systolic Torsion Rate in Type I Diabetic Patients Under Tight Glycemic Control. <i>Journal of the American College of Cardiology</i> , 2006, 47, 384-390.	2.4	105

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91	Role of Cellular Compartmentation in the Metabolic Response to Stress: Mechanistic Insights from Computational Models. <i>Annals of the New York Academy of Sciences</i> , 2006, 1080, 120-139.	4.1	9
92	MR tagging demonstrates quantitative differences in regional ventricular wall motion in mice, rats, and men. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2006, 291, H2515-H2521.	3.7	67
93	Regulation of lactate production at the onset of ischaemia is independent of mitochondrial NADH/NAD ⁺ : insights from silicostudies. <i>Journal of Physiology</i> , 2005, 569, 925-937.	3.4	46
94	Regional ventricular wall thickening reflects changes in cardiac fiber and sheet structure during contraction: quantification with diffusion tensor MRI. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2005, 289, H1898-H1907.	3.7	176
95	Occult Cardiac Contractile Dysfunction in Dystrophin-Deficient Children Revealed by Cardiac Magnetic Resonance Strain Imaging. <i>Circulation</i> , 2005, 112, 2462-2467.	25.2	130
96	Harmonic phase MR tagging for direct quantification of lagrangian strain in rat hearts after myocardial infarction. <i>Magnetic Resonance in Medicine</i> , 2004, 52, 1282-1290.	2.8	53
97	Quantitative ?magnetic resonance immunohistochemistry? with ligand-targeted ¹⁹ F nanoparticles. <i>Magnetic Resonance in Medicine</i> , 2004, 52, 1255-1262.	2.8	200
98	Remodeling of cardiac fiber structure after infarction in rats quantified with diffusion tensor MRI. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2003, 285, H946-H954.	3.7	191
99	Targeted Antiproliferative Drug Delivery to Vascular Smooth Muscle Cells With a Magnetic Resonance Imaging Nanoparticle Contrast Agent. <i>Circulation</i> , 2002, 106, 2842-2847.	25.2	285
100	High-resolution MRI characterization of human thrombus using a novel fibrin-targeted paramagnetic nanoparticle contrast agent. <i>Magnetic Resonance in Medicine</i> , 2000, 44, 867-872.	2.8	248
101	Dehydrogenase regulation of metabolite oxidation and efflux from mitochondria in intact hearts. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 1998, 274, H467-H476.	3.7	36
102	Altered Metabolite Exchange Between Subcellular Compartments in Intact Postischemic Rabbit Hearts. <i>Circulation Research</i> , 1997, 81, 165-175.	12.5	46
103	Subcellular Metabolite Transport and Carbon Isotope Kinetics in the Intramyocardial Glutamate Pool. <i>Biochemistry</i> , 1996, 35, 6963-6968.	2.4	51
104	Chemical Versus Isotopic Equilibrium and the Metabolic Fate of Glycolytic End Products in the Heart. <i>Journal of Molecular and Cellular Cardiology</i> , 1996, 28, 989-999.	3.9	31
105	Multiplet structure of ¹³ C NMR signal from glutamate and direct detection of tricarboxylic acid (TCA) cycle intermediates. <i>Magnetic Resonance in Medicine</i> , 1996, 35, 149-154.	2.8	47
106	Kinetic analysis of dynamic ¹³ C NMR spectra: metabolic flux, regulation, and compartmentation in hearts. <i>Biophysical Journal</i> , 1995, 69, 2090-2102.	2.2	112