Hai-Ling Margaret Cheng

List of Publications by Year
in descending order

73 papers	2,163 citations	279798 23 h-index	254184 43 g-index
75 all docs	75 docs citations	75 times ranked	3244 citing authors

#	Article	IF	Citations
1	Rapid high-resolutionT1 mapping by variable flip angles: Accurate and precise measurements in the presence of radiofrequency field inhomogeneity. Magnetic Resonance in Medicine, 2006, 55, 566-574.	3.0	296
2	Steady-State MR Imaging Sequences: Physics, Classification, and Clinical Applications. Radiographics, 2008, 28, 1147-1160.	3.3	236
3	Practical medical applications of quantitative MR relaxometry. Journal of Magnetic Resonance Imaging, 2012, 36, 805-824.	3.4	176
4	Investigation and optimization of parameter accuracy in dynamic contrastâ€enhanced MRI. Journal of Magnetic Resonance Imaging, 2008, 28, 736-743.	3.4	95
5	Tissue thermal conductivity by magnetic resonance thermometry and focused ultrasound heating. Journal of Magnetic Resonance Imaging, 2002, 16, 598-609.	3.4	86
6	Temporal resolution and SNR requirements for accurate DCEâ€MRI data analysis using the AATH model. Magnetic Resonance in Medicine, 2010, 64, 1772-1780.	3.0	72
7	T1 measurement of flowing blood and arterial input function determination for quantitative 3DT1-weighted DCE-MRI. Journal of Magnetic Resonance Imaging, 2007, 25, 1073-1078.	3.4	66
8	Complementary Strategies for Developing Gd-Free High-Field T₁ MRI Contrast Agents Based on Mn^{III} Porphyrins. Journal of Medicinal Chemistry, 2014, 57, 516-520.	6.4	50
9	Quantification of renal perfusion: Comparison of arterial spin labeling and dynamic contrastâ€enhanced MRI. Journal of Magnetic Resonance Imaging, 2011, 34, 608-615.	3.4	49
10	Accurate liver T measurement of iron overload: A simulations investigation and in vivo study. Journal of Magnetic Resonance Imaging, 2009, 30, 313-320.	3.4	46
11	Quantifying angiogenesis in VEGF-enhanced tissue-engineered bladder constructs by dynamic contrast-enhanced MRI using contrast agents of different molecular weights. Journal of Magnetic Resonance Imaging, 2007, 25, 137-145.	3.4	40
12	A general dual-bolus approach for quantitative DCE-MRI. Magnetic Resonance Imaging, 2011, 29, 160-166.	1.8	39
13	MRI and contrastâ€enhanced ultrasound monitoring of prostate microwave focal thermal therapy: An in vivo canine study. Journal of Magnetic Resonance Imaging, 2008, 28, 136-143.	3.4	38
14	Delayed Gadolinium-enhanced MR Imaging of Articular Cartilage: Three-dimensional T1 Mapping with Variable Flip Angles and B1Correction. Radiology, 2009, 252, 865-873.	7.3	35
15	Normal Tissue Quantitative T1 and T2â^— MRI Relaxation Time Responses to Hypercapnic and Hyperoxic Gases. Academic Radiology, 2011, 18, 1159-1167.	2.5	31
16	Quantitative MRI assessment of VX2 tumour oxygenation changes in response to hyperoxia and hypercapnia. Physics in Medicine and Biology, 2011, 56, 1225-1242.	3.0	30
17	An enzyme-activatable and cell-permeable Mn^{III}-porphyrin as a highly efficient T₁ MRI contrast agent for cell labeling. Chemical Science, 2016, 7, 4308-4317.	7.4	29
18	Gadoliniumâ€free T₁ contrast agents for MRI: Tunable pharmacokinetics of a new class of manganese porphyrins. Journal of Magnetic Resonance Imaging, 2014, 40, 1474-1480.	3.4	27

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19	Dynamic contrast-enhanced MRI to quantify VEGF-enhanced tissue-engineered bladder graft neovascularization: Pilot study. Journal of Biomedical Materials Research - Part A, 2006, 77A, 390-395.	4.0	26
20	3D myocardial T₁ mapping at 3T using variable flip angle method: Pilot study. Magnetic Resonance in Medicine, 2014, 71, 823-829.	3.0	26
21	Improved correlation to quantitative DCEâ€MRI pharmacokinetic parameters using a modified initial area under the uptake curve (mIAUC) approach. Journal of Magnetic Resonance Imaging, 2009, 30, 864-872.	3.4	25
22	Binding of a dimeric manganese porphyrin to serum albumin: towards a gadolinium-free blood-pool T 1 MRI contrast agent. Journal of Biological Inorganic Chemistry, 2014, 19, 229-235.	2.6	25
23	Prediction of subtle thermal histopathological change using a novel analysis of Gd-DTPA kinetics. Journal of Magnetic Resonance Imaging, 2003, 18, 585-598.	3.4	24
24	Dynamic Gd-DTPA enhanced MRI as a surrogate marker of angiogenesis in tissue-engineered bladder constructs: A feasibility study in rabbits. Journal of Magnetic Resonance Imaging, 2005, 21, 415-423.	3.4	23
25	Impact of motion on T1 mapping acquired with inversion recovery fast spin echo and rapid spoiled gradient recalledâ€echo pulse sequences for delayed gadoliniumâ€enhanced MRI of cartilage (dGEMRIC) in volunteers. Journal of Magnetic Resonance Imaging, 2010, 32, 394-398.	3.4	23
26	Ectopic fat in youth: The contribution of hepatic and pancreatic fat to metabolic disturbances. Obesity, 2014, 22, 1280-1286.	3.0	22
27	Monitoring angiogenesis in soft-tissue engineered constructs for calvarium bone regeneration: an in vivo longitudinal DCE-MRI study. NMR in Biomedicine, 2010, 23, 48-55.	2.8	21
28	Ultrashort Echo Time for Improved Positive-Contrast Manganese-Enhanced MRI of Cancer. PLoS ONE, 2013, 8, e58617.	2.5	21
29	A scale to measure MRI contrast agent sensitivity. Scientific Reports, 2017, 7, 15493.	3.3	20
30	A manganese porphyrin-based T1 contrast agent for cellular MR imaging of human embryonic stem cells. Scientific Reports, 2018, 8, 12129.	3.3	19
31	Monitoring tissue development in acellular matrixâ€based regeneration for bladder tissue engineering: Multiexponential diffusion and T₂* for improved specificity. NMR in Biomedicine, 2012, 25, 418-426.	2.8	18
32	Liver iron overload assessment by T magnetic resonance imaging in pediatric patients: An accuracy and reproducibility study. American Journal of Hematology, 2012, 87, 435-437.	4.1	18
33	Effect of Hyperoxia and Hypercapnia on Tissue Oxygen and Perfusion Response in the Normal Liver and Kidney. PLoS ONE, 2012, 7, e40485.	2.5	18
34	Dynamic Contrast-Enhanced MRI in Oncology Drug Development. Current Clinical Pharmacology, 2007, 2, 111-122.	0.6	17
35	The acellular matrix (ACM) for bladder tissue engineering: A quantitative magnetic resonance imaging study. Magnetic Resonance in Medicine, 2010, 64, 341-348.	3.0	17
36	A technique for rapid singleâ€echo spinâ€echo T₂ mapping. Magnetic Resonance in Medicine, 2010, 64, 536-545.	3.0	17

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37	and T₁ assessment of abdominal tissue response to graded hypoxia and hypercapnia using a controlled gas mixing circuit for small animals. Journal of Magnetic Resonance Imaging, 2016, 44, 305-316.	3.4	17
38	A non-invasive magnetic resonance imaging approach for assessment of real-time microcirculation dynamics. Scientific Reports, 2017, 7, 7468.	3.3	17
39	Manganese-porphyrin-enhanced MRI for the detection of cancer cells: A quantitative in vitro investigation with multiple clinical subtypes of breast cancer. PLoS ONE, 2018, 13, e0196998.	2.5	16
40	Oneâ€Step Labeling of Collagen Hydrogels with Polydopamine and Manganese Porphyrin for Nonâ€Invasive Scaffold Tracking on Magnetic Resonance Imaging. Macromolecular Bioscience, 2019, 19, e1800330.	4.1	16
41	Primer and Historical Review on Rapid Cardiac <scp>CINE MRI</scp>. Journal of Magnetic Resonance Imaging, 2022, 55, 373-388.	3.4	16
42	Usefulness of contrast kinetics for predicting and monitoring tissue changes in muscle following thermal therapy in long survival studies. Journal of Magnetic Resonance Imaging, 2004, 19, 329-341.	3.4	15
43	Quantitative Magnetic Resonance Imaging Assessment of Matrix Development in Cell-Seeded Natural Urinary Bladder Smooth Muscle Tissue-Engineered Constructs. Tissue Engineering - Part C: Methods, 2010, 16, 643-651.	2.1	13
44	Concurrent Dual Contrast for Cellular Magnetic Resonance Imaging Using Gadolinium Oxide and Iron Oxide Nanoparticles. International Journal of Molecular Imaging, 2012, 2012, 1-10.	1.3	13
45	Noninvasive Manganese-Enhanced Magnetic Resonance Imaging for Early Detection of Breast Cancer Metastatic Potential. Molecular Imaging, 2014, 13, 7290.2013.00071.	1.4	13
46	Synthesis of degradable-polar-hydrophobic-ionic co-polymeric microspheres by membrane emulsion photopolymerization: In vitro and in vivo studies. Acta Biomaterialia, 2019, 89, 279-288.	8.3	13
47	Next-generation multimodality of nutrigenomic cancer therapy: sulforaphane in combination with acetazolamide actively target bronchial carcinoid cancer in disabling the PI3K/Akt/mTOR survival pathway and inducing apoptosis. Oncotarget, 2021, 12, 1470-1489.	1.8	12
48	The Next-Generation of Combination Cancer Immunotherapy: Epigenetic Immunomodulators Transmogrify Immune Training to Enhance Immunotherapy. Cancers, 2021, 13, 3596.	3.7	12
49	Optimized T1- and T2-weighted volumetric brain imaging as a diagnostic tool in very preterm neonates. Pediatric Radiology, 2011, 41, 702-710.	2.0	11
50	Manganeseâ€enhanced MRI of minimally gadoliniumâ€enhancing breast tumors. Journal of Magnetic Resonance Imaging, 2015, 41, 806-813.	3.4	11
51	Assessment of microvascular dysfunction in acute limb ischemiaâ€reperfusion injury. Journal of Magnetic Resonance Imaging, 2019, 49, 1174-1185.	3.4	11
52	Gadoliniumâ€free extracellular MR contrast agent for tumor imaging. Journal of Magnetic Resonance Imaging, 2015, 41, 397-403.	3.4	10
53	An Efficient T₁ Contrast Agent for Labeling and Tracking Human Embryonic Stem Cells on MRI. Contrast Media and Molecular Imaging, 2019, 2019, 1-11.	0.8	10
54	MRI method for labeling and imaging decellularized extracellular matrix scaffolds for tissue engineering. Magnetic Resonance in Medicine, 2020, 83, 2138-2149.	3.0	10

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55	Bright Ferritinâ€"a Reporter Gene Platform for On-Demand, Longitudinal Cell Tracking on MRI. IScience, 2020, 23, 101350.	4.1	10
56	Human Aortic Endothelial Cell Labeling with Positive Contrast Gadolinium Oxide Nanoparticles for Cellular Magnetic Resonance Imaging at 7 Tesla. Molecular Imaging, 2012, 11, 7290.2011.00037.	1.4	9
57	Positive-contrast cellular MRI of embryonic stem cells for tissue regeneration using a highly efficientT₁MRI contrast agent. Journal of Magnetic Resonance Imaging, 2016, 44, 1456-1463.	3.4	9
58	Heart failure with preserved ejection fraction: the missing pieces in diagnostic imaging. Heart Failure Reviews, 2020, 25, 305-319.	3.9	9
59	Establishment of a Lung Metastatic Breast Tumor Xenograft Model in Nude Rats. PLoS ONE, 2014, 9, e97950.	2.5	9
60	Manganese-Enhanced Magnetic Resonance Imaging for Early Detection and Characterization of Breast Cancers. Molecular Imaging, 2014, 13, 7290.2014.00021.	1.4	8
61	3D Multicellular Stem-Like Human Breast Tumor Spheroids Enhance Tumorigenicity of Orthotopic Xenografts in Athymic Nude Rat Model. Cancers, 2021, 13, 2784.	3.7	8
62	UBR4/POE facilitates secretory trafficking to maintain circadian clock synchrony. Nature Communications, 2022, 13, 1594.	12.8	7
63	A novel MRI analysis for assessment of microvascular vasomodulation in low-perfusion skeletal muscle. Scientific Reports, 2020, 10, 4705.	3.3	5
64	Skeletal Muscle Microvascular Dysfunction Manifests Early in Diabetic Cardiomyopathy. Frontiers in Cardiovascular Medicine, 2021, 8, 715400.	2.4	5
65	Fate, complications and MRI implications of retention anchor suture placed during gastrostomy in children. Pediatric Radiology, 2013, 43, 1009-1016.	2.0	4
66	Physiologic characterization of inflammatory arthritis in a rabbit model with BOLD and DCE MRI at 1.5 Tesla. European Radiology, 2014, 24, 2766-2778.	4.5	4
67	Ultrashort Echo Time Magnetic Resonance Imaging of the Lung Using a High-Relaxivity T₁Blood-Pool Contrast Agent. Molecular Imaging, 2014, 13, 7290.2014.00027.	1.4	4
68	<scp>USPIO</scp>â€related T1 and T2 mapping <scp>MRI</scp> of cartilage in a rabbit model of bloodâ€induced arthritis: a pilot study. Haemophilia, 2015, 21, e59-69.	2.1	4
69	Human microvascular reactivity: a review of vasomodulating stimuli and non-invasive imaging assessment. Physiological Measurement, 2021, 42, 09TR01.	2.1	4
70	Threeâ€Dimensional Bioprinted <scp>MRâ€Trackable</scp> Regenerative Scaffold for <scp>Postimplantation</scp> Monitoring on <scp>T1â€Weighted MRI</scp>. Journal of Magnetic Resonance Imaging, 2022, 56, 570-578.	3.4	4
71	Microvascular Dysfunction in Skeletal Muscle Precedes Myocardial Vascular Changes in Diabetic Cardiomyopathy: Sex-Dependent Differences. Frontiers in Cardiovascular Medicine, 2022, 9, .	2.4	2
72	Abstract 1220: Investigation of the biological properties of human breast cancer in a nude rat model. , 2014, , .		0

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73	Abstract 3133: The anti-tumor effects of acetazolamide and sulforaphane on bronchial carcinoids: Preclinical modeling and mechanism. , 2014, , .		0