

# Hai-Ling Margaret Cheng

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Primer and Historical Review on Rapid Cardiac <sc>CINE MRI</sc>. Journal of Magnetic Resonance Imaging, 2022, 55, 373-388.	3.4	16
2	Three-dimensional Bioprinted <sc>MRâ€Trackable</sc> Regenerative Scaffold for <sc>Postimplantation</sc> Monitoring on <sc>T1â€Weighted MRI</sc>. Journal of Magnetic Resonance Imaging, 2022, 56, 570-578.	3.4	4
3	UBR4/POE facilitates secretory trafficking to maintain circadian clock synchrony. Nature Communications, 2022, 13, 1594.	12.8	7
4	Microvascular Dysfunction in Skeletal Muscle Precedes Myocardial Vascular Changes in Diabetic Cardiomyopathy: Sex-Dependent Differences. Frontiers in Cardiovascular Medicine, 2022, 9, .	2.4	2
5	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
6	Skeletal Muscle Microvascular Dysfunction Manifests Early in Diabetic Cardiomyopathy. Frontiers in Cardiovascular Medicine, 2021, 8, 715400.	2.4	5
7	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
8	The Next-Generation of Combination Cancer Immunotherapy: Epigenetic Immunomodulators Transmogrify Immune Training to Enhance Immunotherapy. Cancers, 2021, 13, 3596.	3.7	12
9	Human microvascular reactivity: a review of vasomodulating stimuli and non-invasive imaging assessment. Physiological Measurement, 2021, 42, 09TR01.	2.1	4
10	Heart failure with preserved ejection fraction: the missing pieces in diagnostic imaging. Heart Failure Reviews, 2020, 25, 305-319.	3.9	9
11	MRI method for labeling and imaging decellularized extracellular matrix scaffolds for tissue engineering. Magnetic Resonance in Medicine, 2020, 83, 2138-2149.	3.0	10
12	Bright Ferritinâ€”a Reporter Gene Platform for On-Demand, Longitudinal Cell Tracking on MRI. IScience, 2020, 23, 101350.	4.1	10
13	A novel MRI analysis for assessment of microvascular vasomodulation in low-perfusion skeletal muscle. Scientific Reports, 2020, 10, 4705.	3.3	5
14	An Efficient <i>T</i><sub>1</sub> Contrast Agent for Labeling and Tracking Human Embryonic Stem Cells on MRI. Contrast Media and Molecular Imaging, 2019, 2019, 1-11.	0.8	10
15	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
16	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
17	Assessment of microvascular dysfunction in acute limb ischemiaâ€reperfusion injury. Journal of Magnetic Resonance Imaging, 2019, 49, 1174-1185.	3.4	11
18	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

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19	A manganese porphyrin-based T1 contrast agent for cellular MR imaging of human embryonic stem cells. <i>Scientific Reports</i> , 2018, 8, 12129.	3.3	19
20	A non-invasive magnetic resonance imaging approach for assessment of real-time microcirculation dynamics. <i>Scientific Reports</i> , 2017, 7, 7468.	3.3	17
21	A scale to measure MRI contrast agent sensitivity. <i>Scientific Reports</i> , 2017, 7, 15493.	3.3	20
22	Positive-contrast cellular MRI of embryonic stem cells for tissue regeneration using a highly efficient T <sub>1</sub> MRI contrast agent. <i>Journal of Magnetic Resonance Imaging</i> , 2016, 44, 1456-1463.	3.4	9
23	and T <sub>1</sub> assessment of abdominal tissue response to graded hypoxia and hypercapnia using a controlled gas mixing circuit for small animals. <i>Journal of Magnetic Resonance Imaging</i> , 2016, 44, 305-316.	3.4	17
24	An enzyme-activatable and cell-permeable Mn <sup>III</sup> -porphyrin as a highly efficient T <sub>1</sub> MRI contrast agent for cell labeling. <i>Chemical Science</i> , 2016, 7, 4308-4317.	7.4	29
25	Manganese-enhanced MRI of minimally gadolinium-enhancing breast tumors. <i>Journal of Magnetic Resonance Imaging</i> , 2015, 41, 806-813.	3.4	11
26	Gadolinium-free extracellular MR contrast agent for tumor imaging. <i>Journal of Magnetic Resonance Imaging</i> , 2015, 41, 397-403.	3.4	10
27	USPIO-related T1 and T2 mapping MRI of cartilage in a rabbit model of blood-induced arthritis: a pilot study. <i>Haemophilia</i> , 2015, 21, e59-69.	2.1	4
28	Ectopic fat in youth: The contribution of hepatic and pancreatic fat to metabolic disturbances. <i>Obesity</i> , 2014, 22, 1280-1286.	3.0	22
29	Binding of a dimeric manganese porphyrin to serum albumin: towards a gadolinium-free blood-pool T <sub>1</sub> MRI contrast agent. <i>Journal of Biological Inorganic Chemistry</i> , 2014, 19, 229-235.	2.6	25
30	Gadolinium-free T <sub>1</sub> contrast agents for MRI: Tunable pharmacokinetics of a new class of manganese porphyrins. <i>Journal of Magnetic Resonance Imaging</i> , 2014, 40, 1474-1480.	3.4	27
31	Complementary Strategies for Developing Gd-Free High-Field T <sub>1</sub> MRI Contrast Agents Based on Mn <sup>III</sup> Porphyrins. <i>Journal of Medicinal Chemistry</i> , 2014, 57, 516-520.	6.4	50
32	Physiologic characterization of inflammatory arthritis in a rabbit model with BOLD and DCE MRI at 1.5 Tesla. <i>European Radiology</i> , 2014, 24, 2766-2778.	4.5	4
33	Manganese-Enhanced Magnetic Resonance Imaging for Early Detection and Characterization of Breast Cancers. <i>Molecular Imaging</i> , 2014, 13, 7290.2014.00021.	1.4	8
34	Noninvasive Manganese-Enhanced Magnetic Resonance Imaging for Early Detection of Breast Cancer Metastatic Potential. <i>Molecular Imaging</i> , 2014, 13, 7290.2013.00071.	1.4	13
35	Ultrashort Echo Time Magnetic Resonance Imaging of the Lung Using a High-Relaxivity T <sub>1</sub> Blood-Pool Contrast Agent. <i>Molecular Imaging</i> , 2014, 13, 7290.2014.00027.	1.4	4
36	3D myocardial T <sub>1</sub> mapping at 3T using variable flip angle method: Pilot study. <i>Magnetic Resonance in Medicine</i> , 2014, 71, 823-829.	3.0	26

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37	Establishment of a Lung Metastatic Breast Tumor Xenograft Model in Nude Rats. PLoS ONE, 2014, 9, e97950.	2.5	9
38	Abstract 1220: Investigation of the biological properties of human breast cancer in a nude rat model. , 2014, , .		0
39	Abstract 3133: The anti-tumor effects of acetazolamide and sulforaphane on bronchial carcinoids: Preclinical modeling and mechanism. , 2014, , .		0
40	Fate, complications and MRI implications of retention anchor suture placed during gastrostomy in children. Pediatric Radiology, 2013, 43, 1009-1016.	2.0	4
41	Ultrashort Echo Time for Improved Positive-Contrast Manganese-Enhanced MRI of Cancer. PLoS ONE, 2013, 8, e58617.	2.5	21
42	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
43	Practical medical applications of quantitative MR relaxometry. Journal of Magnetic Resonance Imaging, 2012, 36, 805-824.	3.4	176
44	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
45	Monitoring tissue development in acellular matrix-based regeneration for bladder tissue engineering: Multiexponential diffusion and $T_2^*$ for improved specificity. NMR in Biomedicine, 2012, 25, 418-426.	2.8	18
46	Liver iron overload assessment by $T_2$ magnetic resonance imaging in pediatric patients: An accuracy and reproducibility study. American Journal of Hematology, 2012, 87, 435-437.	4.1	18
47	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
48	Normal Tissue Quantitative T1 and T2— MRI Relaxation Time Responses to Hypercapnic and Hyperoxic Gases. Academic Radiology, 2011, 18, 1159-1167.	2.5	31
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	Quantification of renal perfusion: Comparison of arterial spin labeling and dynamic contrast-enhanced MRI. Journal of Magnetic Resonance Imaging, 2011, 34, 608-615.	3.4	49
51	A general dual-bolus approach for quantitative DCE-MRI. Magnetic Resonance Imaging, 2011, 29, 160-166.	1.8	39
52	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
53	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
54	Impact of motion on T1 mapping acquired with inversion recovery fast spin echo and rapid spoiled gradient recalled echo pulse sequences for delayed gadolinium-enhanced MRI of cartilage (dGEMRIC) in volunteers. Journal of Magnetic Resonance Imaging, 2010, 32, 394-398.	3.4	23

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55	The acellular matrix (ACM) for bladder tissue engineering: A quantitative magnetic resonance imaging study. <i>Magnetic Resonance in Medicine</i> , 2010, 64, 341-348.	3.0	17
56	A technique for rapid single-echo spin-echo T <sub>2</sub> mapping. <i>Magnetic Resonance in Medicine</i> , 2010, 64, 536-545.	3.0	17
57	Temporal resolution and SNR requirements for accurate DCE-MRI data analysis using the AATH model. <i>Magnetic Resonance in Medicine</i> , 2010, 64, 1772-1780.	3.0	72
58	Quantitative Magnetic Resonance Imaging Assessment of Matrix Development in Cell-Seeded Natural Urinary Bladder Smooth Muscle Tissue-Engineered Constructs. <i>Tissue Engineering - Part C: Methods</i> , 2010, 16, 643-651.	2.1	13
59	Delayed Gadolinium-enhanced MR Imaging of Articular Cartilage: Three-dimensional T1 Mapping with Variable Flip Angles and B1 Correction. <i>Radiology</i> , 2009, 252, 865-873.	7.3	35
60	Accurate liver T measurement of iron overload: A simulations investigation and in vivo study. <i>Journal of Magnetic Resonance Imaging</i> , 2009, 30, 313-320.	3.4	46
61	Improved correlation to quantitative DCE-MRI pharmacokinetic parameters using a modified initial area under the uptake curve (mIAUC) approach. <i>Journal of Magnetic Resonance Imaging</i> , 2009, 30, 864-872.	3.4	25
62	MRI and contrast-enhanced ultrasound monitoring of prostate microwave focal thermal therapy: An in vivo canine study. <i>Journal of Magnetic Resonance Imaging</i> , 2008, 28, 136-143.	3.4	38
63	Investigation and optimization of parameter accuracy in dynamic contrast-enhanced MRI. <i>Journal of Magnetic Resonance Imaging</i> , 2008, 28, 736-743.	3.4	95
64	Steady-State MR Imaging Sequences: Physics, Classification, and Clinical Applications. <i>Radiographics</i> , 2008, 28, 1147-1160.	3.3	236
65	Dynamic Contrast-Enhanced MRI in Oncology Drug Development. <i>Current Clinical Pharmacology</i> , 2007, 2, 111-122.	0.6	17
66	Quantifying angiogenesis in VEGF-enhanced tissue-engineered bladder constructs by dynamic contrast-enhanced MRI using contrast agents of different molecular weights. <i>Journal of Magnetic Resonance Imaging</i> , 2007, 25, 137-145.	3.4	40
67	T1 measurement of flowing blood and arterial input function determination for quantitative 3DT1-weighted DCE-MRI. <i>Journal of Magnetic Resonance Imaging</i> , 2007, 25, 1073-1078.	3.4	66
68	Dynamic contrast-enhanced MRI to quantify VEGF-enhanced tissue-engineered bladder graft neovascularization: Pilot study. <i>Journal of Biomedical Materials Research - Part A</i> , 2006, 77A, 390-395.	4.0	26
69	Rapid high-resolution T1 mapping by variable flip angles: Accurate and precise measurements in the presence of radiofrequency field inhomogeneity. <i>Magnetic Resonance in Medicine</i> , 2006, 55, 566-574.	3.0	296
70	Dynamic Gd-DTPA enhanced MRI as a surrogate marker of angiogenesis in tissue-engineered bladder constructs: A feasibility study in rabbits. <i>Journal of Magnetic Resonance Imaging</i> , 2005, 21, 415-423.	3.4	23
71	Usefulness of contrast kinetics for predicting and monitoring tissue changes in muscle following thermal therapy in long survival studies. <i>Journal of Magnetic Resonance Imaging</i> , 2004, 19, 329-341.	3.4	15
72	Prediction of subtle thermal histopathological change using a novel analysis of Gd-DTPA kinetics. <i>Journal of Magnetic Resonance Imaging</i> , 2003, 18, 585-598.	3.4	24

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73	Tissue thermal conductivity by magnetic resonance thermometry and focused ultrasound heating. Journal of Magnetic Resonance Imaging, 2002, 16, 598-609.	3.4	86