Guanshu Liu

List of Publications by Year
in descending order

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92	4,670	66315	102432
papers	citations	42 h-index	66 g-index

98	98	98	4681
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A snapshot of the vast array of diamagnetic CEST MRI contrast agents. NMR in Biomedicine, 2023, 36, e4715.	1.6	10
2	Deep learningâ€based classification of preclinical breast cancer tumor models using chemical exchange saturation transfer magnetic resonance imaging. NMR in Biomedicine, 2022, 35, e4626.	1.6	12
3	In vivo tracking of unlabelled mesenchymal stromal cells by mannose-weighted chemical exchange saturation transfer MRI. Nature Biomedical Engineering, 2022, 6, 658-666.	11.6	18
4	Hyperosmolar bloodâ€“brain barrier opening using intra-arterial injection of hyperosmotic mannitol in mice under real-time MRI guidance. Nature Protocols, 2022, 17, 76-94.	5.5	26
5	Neutrophil depletion enhanced the Clostridium novyi-NT therapy in mouse and rabbit tumor models. Neuro-Oncology Advances, 2022, 4, vdab184.	0.4	3
6	Quantitative cerebrovascular reactivity<scp>MRI</scp>in mice using acetazolamide challenge. Magnetic Resonance in Medicine, 2022, 88, 2233-2241.	1.9	5
7	CEST (Chemical Exchange Saturation Transfer) MR Molecular Imaging. , 2021, , 325-341.		0
8	Highly efficient magnetic labelling allows MRI tracking of the homing of stem cellâ€derived extracellular vesicles following systemic delivery. Journal of Extracellular Vesicles, 2021, 10, e12054.	5.5	43
9	CEST MRI trackable nanoparticle drug delivery systems. Biomedical Materials (Bristol), 2021, 16, 024103.	1.7	10
10	Frondoside A Inhibits an MYC-Driven Medulloblastoma Model Derived from Human-Induced Pluripotent Stem Cells. Molecular Cancer Therapeutics, 2021, 20, 1199-1209.	1.9	10
11	Reversible blood-brain barrier opening utilizing the membrane active peptide melittin in vitro and in vivo. Biomaterials, 2021, 275, 120942.	5.7	24
12	Deuterium oxide as a contrast medium for real-time MRI-guided endovascular neurointervention. Theranostics, 2021, 11, 6240-6250.	4.6	7
13	Repurposing Clinical Agents for Chemical Exchange Saturation Transfer Magnetic Resonance Imaging: Current Status and Future Perspectives. Pharmaceuticals, 2021, 14, 11.	1.7	18
14	Dynamic contrastâ€enhanced CEST MRI using a low molecular weight dextran. NMR in Biomedicine, 2021, , e4649.	1.6	7
15	Optimization of osmotic blood-brain barrier opening to enable intravital microscopy studies on drug delivery in mouse cortex. Journal of Controlled Release, 2020, 317, 312-321.	4.8	35
16	N â€Aryl Amides as Chemical Exchange Saturation Transfer Magnetic Resonance Imaging Contrast Agents. Chemistry - A European Journal, 2020, 26, 11705-11709.	1.7	4
17	Nonâ€contrastâ€enhanced abdominal MRA at 3 T using velocityâ€selective pulse trains. Magnetic Resonance in Medicine, 2020, 84, 1173-1183.	1.9	19
18	The role of imaging in 2019 novel coronavirus pneumonia (COVID-19). European Radiology, 2020, 30, 4874-4882.	2.3	223

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19	GlucoCEST imaging with onâ€resonance variable delay multiple pulse (onVDMP) MRI. Magnetic Resonance in Medicine, 2019, 81, 47-56.	1.9	26
20	InnenrÃ¼cktitelbild: Carbon Dots as a New Class of Diamagnetic Chemical Exchange Saturation Transfer (diaCEST) MRI Contrast Agents (Angew. Chem. 29/2019). Angewandte Chemie, 2019, 131, 10113-10113.	1.6	0
21	Highâ€resolution creatine mapping of mouse brain at 11.7 T using nonâ€steadyâ€state chemical exchange saturation transfer. NMR in Biomedicine, 2019, 32, e4168.	1.6	29
22	CT and CEST MRI bimodal imaging of the intratumoral distribution of iodinated liposomes. Quantitative Imaging in Medicine and Surgery, 2019, 9, 1579-1591.	1.1	24
23	Sugarâ€based biopolymers as novel imaging agents for molecular magnetic resonance imaging. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2019, 11, e1551.	3.3	15
24	CEST MRI monitoring of tumor response to vascular disrupting therapy using high molecular weight dextrans. Magnetic Resonance in Medicine, 2019, 82, 1471-1479.	1.9	18
25	Detecting acid phosphatase enzymatic activity with phenol as a chemical exchange saturation transfer magnetic resonance imaging contrast agent (PhenolCEST MRI). Biosensors and Bioelectronics, 2019, 141, 111442.	5.3	13
26	Carbon Dots as a New Class of Diamagnetic Chemical Exchange Saturation Transfer (diaCEST) MRI Contrast Agents. Angewandte Chemie, 2019, 131, 9976-9980.	1.6	1
27	Carbon Dots as a New Class of Diamagnetic Chemical Exchange Saturation Transfer (diaCEST) MRI Contrast Agents. Angewandte Chemie - International Edition, 2019, 58, 9871-9875.	7.2	45
28	Extradomain-B Fibronectin-Targeted Dextran-Based Chemical Exchange Saturation Transfer Magnetic Resonance Imaging Probe for Detecting Pancreatic Cancer. Bioconjugate Chemistry, 2019, 30, 1425-1433.	1.8	25
29	Molecular imaging of deoxycytidine kinase activity using deoxycytidine-enhanced CEST MRI. Cancer Research, 2019, 79, canres.3565.2018.	0.4	12
30	The effect of the mTOR inhibitor rapamycin on glucoCEST signal in a preclinical model of glioblastoma. Magnetic Resonance in Medicine, 2019, 81, 3798-3807.	1.9	13
31	Furin-mediated intracellular self-assembly of olsalazine nanoparticles for enhanced magnetic resonance imaging and tumour therapy. Nature Materials, 2019, 18, 1376-1383.	13.3	164
32	Protein aggregation linked to Alzheimer's disease revealed by saturation transfer MRI. NeuroImage, 2019, 188, 380-390.	2.1	50
33	MRI detection of bacterial brain abscesses and monitoring of antibiotic treatment using bacCEST. Magnetic Resonance in Medicine, 2018, 80, 662-671.	1.9	25
34	Phenols as Diamagnetic T₂â€Exchange Magnetic Resonance Imaging Contrast Agents. Chemistry - A European Journal, 2018, 24, 1259-1263.	1.7	13
35	Characterization of tumor vascular permeability using natural dextrans and CEST MRI. Magnetic Resonance in Medicine, 2018, 79, 1001-1009.	1.9	33
36	Real-Time MRI Guidance for Reproducible Hyperosmolar Opening of the Blood-Brain Barrier in Mice. Frontiers in Neurology, 2018, 9, 921.	1.1	28

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37	Triazoles as T₂â€Exchange Magnetic Resonance Imaging Contrast Agents for the Detection of Nitrilase Activity. Chemistry - A European Journal, 2018, 24, 15013-15018.	1.7	6
38	CEST MRI of sepsisâ€induced acute kidney injury. NMR in Biomedicine, 2018, 31, e3942.	1.6	28
39	Onâ€resonance variable delay multipulse scheme for imaging of fastâ€exchanging protons and semisolid macromolecules. Magnetic Resonance in Medicine, 2017, 77, 730-739.	1.9	35
40	One-Component Supramolecular Filament Hydrogels as Theranostic Label-Free Magnetic Resonance Imaging Agents. ACS Nano, 2017, 11, 797-805.	7.3	95
41	Monitoring Tumor Response to Antivascular Therapy Using Non-Contrast Intravoxel Incoherent Motion Diffusion-Weighted MRI. Cancer Research, 2017, 77, 3491-3501.	0.4	49
42	Detection and Quantification of Hydrogen Peroxide in Aqueous Solutions Using Chemical Exchange Saturation Transfer. Analytical Chemistry, 2017, 89, 7758-7764.	3.2	27
43	Detection of dynamic substrate binding using MRI. Scientific Reports, 2017, 7, 10138.	1.6	18
44	A dextran-based probe for the targeted magnetic resonance imaging of tumours expressing prostate-specific membrane antigen. Nature Biomedical Engineering, 2017, 1, 977-982.	11.6	58
45	GlucoCEST magnetic resonance imaging inÂvivo may be diagnostic of acute renal allograft rejection. Kidney International, 2017, 92, 757-764.	2.6	21
46	Chapter 6 General Theory of CEST Image Acquisition and Post-Processing. , 2017, , 55-96.		0
47	Label-free CEST MRI Detection of Citicoline-Liposome Drug Delivery in Ischemic Stroke. Theranostics, 2016, 6, 1588-1600.	4.6	74
48	CEST-MRI detects metabolite levels altered by breast cancer cell aggressiveness and chemotherapy response. NMR in Biomedicine, 2016, 29, 806-816.	1.6	49
49	Developing imidazoles as CEST MRI pH sensors. Contrast Media and Molecular Imaging, 2016, 11, 304-312.	0.4	47
50	Imaging the DNA Alkylator Melphalan by CEST MRI: An Advanced Approach to Theranostics. Molecular Pharmaceutics, 2016, 13, 3043-3053.	2.3	20
51	CEST theranostics: label-free MR imaging of anticancer drugs. Oncotarget, 2016, 7, 6369-6378.	0.8	49
52	Dynamic glucose enhanced (DGE) MRI for combined imaging of blood-brain barrier break down and increased blood volume in brain cancer. Magnetic Resonance in Medicine, 2015, 74, 1556-1563.	1.9	94
53	Dynamic Glucose-Enhanced (DGE) MRI: Translation to Human Scanning and First Results in Glioma Patients. Tomography, 2015, 1, 105-114.	0.8	153
54	Establishing the Lysine-rich Protein CEST Reporter Gene as a CEST MR Imaging Detector for Oncolytic Virotherapy. Radiology, 2015, 275, 746-754.	3.6	70

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55	Label-free in vivo molecular imaging of underglycosylated mucin-1 expression in tumour cells. Nature Communications, 2015, 6, 6719.	5.8	62
56	Multiwalled Nanotubes Formed by Catanionic Mixtures of Drug Amphiphiles. ACS Nano, 2014, 8, 12690-12700.	7.3	98
57	Vaginal Delivery of Paclitaxel via Nanoparticles with Nonâ€Mucoadhesive Surfaces Suppresses Cervical Tumor Growth. Advanced Healthcare Materials, 2014, 3, 1044-1052.	3.9	85
58	Cancer Therapy: Vaginal Delivery of Paclitaxel via Nanoparticles with Nonâ€Mucoadhesive Surfaces Suppresses Cervical Tumor Growth (Adv. Healthcare Mater. 7/2014). Advanced Healthcare Materials, 2014, 3, 1120-1120.	3.9	0
59	Non-invasive temperature mapping using temperature-responsive water saturation shift referencing (T-WASSR) MRI. NMR in Biomedicine, 2014, 27, 320-331.	1.6	33
60	A diaCEST MRI approach for monitoring liposomal accumulation in tumors. Journal of Controlled Release, 2014, 180, 51-59.	4.8	52
61	Human Protamine-1 as an MRI Reporter Gene Based on Chemical Exchange. ACS Chemical Biology, 2014, 9, 134-138.	1.6	64
62	Magnetization transfer contrast MRI for non-invasive assessment of innate and adaptive immune responses against alginate-encapsulated cells. Biomaterials, 2014, 35, 7811-7818.	5.7	16
63	NOrmalized MAgnetization Ratio (NOMAR) filtering for creation of tissue selective contrast maps. Magnetic Resonance in Medicine, 2013, 69, 516-523.	1.9	16
64	Nuts and bolts of chemical exchange saturation transfer MRI. NMR in Biomedicine, 2013, 26, 810-828.	1.6	254
65	Metal Ion Sensing Using Ion Chemical Exchange Saturation Transfer ¹⁹F Magnetic Resonance Imaging. Journal of the American Chemical Society, 2013, 135, 12164-12167.	6.6	67
66	MRI-detectable pH nanosensors incorporated intoÂhydrogels for inÂvivo sensing of transplanted-cell viability. Nature Materials, 2013, 12, 268-275.	13.3	189
67	Transforming Thymidine into a Magnetic Resonance Imaging Probe for Monitoring Gene Expression. Journal of the American Chemical Society, 2013, 135, 1617-1624.	6.6	80
68	Synthesis of a probe for monitoring HSV1-tk reporter gene expression using chemical exchange saturation transfer MRI. Nature Protocols, 2013, 8, 2380-2391.	5.5	47
69	Noninvasive imaging of infection after treatment with tumorâ€homing bacteria using Chemical Exchange Saturation Transfer (CEST) MRI. Magnetic Resonance in Medicine, 2013, 70, 1690-1698.	1.9	39
70	Salicylic Acid and Analogues as diaCEST MRI Contrast Agents with Highly Shifted Exchangeable Proton Frequencies. Angewandte Chemie - International Edition, 2013, 52, 8116-8119.	7.2	73
71	Imaging in Vivo Extracellular pH with a Single Paramagnetic Chemical Exchange Saturation Transfer Magnetic Resonance Imaging Contrast Agent. Molecular Imaging, 2012, 11, 7290.2011.00026.	0.7	64
72	MRI biosensor for protein kinase A encoded by a single synthetic gene. Magnetic Resonance in Medicine, 2012, 68, 1919-1923.	1.9	55

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73	Natural <scp>D</scp>â€glucose as a biodegradable MRI contrast agent for detecting cancer. Magnetic Resonance in Medicine, 2012, 68, 1764-1773.	1.9	295
74	In vivo multicolor molecular MR imaging using diamagnetic chemical exchange saturation transfer liposomes. Magnetic Resonance in Medicine, 2012, 67, 1106-1113.	1.9	104
75	CEST phase mapping using a length and offset varied saturation (LOVARS) scheme. Magnetic Resonance in Medicine, 2012, 68, 1074-1086.	1.9	51
76	Improved pH measurements with a single PARACEST MRI contrast agent. Contrast Media and Molecular Imaging, 2012, 7, 26-34.	0.4	59
77	Imaging in vivo extracellular pH with a single paramagnetic chemical exchange saturation transfer magnetic resonance imaging contrast agent. Molecular Imaging, 2012, 11, 47-57.	0.7	63
78	A selfâ€calibrating PARACEST MRI contrast agent that detects esterase enzyme activity. Contrast Media and Molecular Imaging, 2011, 6, 219-228.	0.4	54
79	Monitoring Enzyme Activity Using a Diamagnetic Chemical Exchange Saturation Transfer Magnetic Resonance Imaging Contrast Agent. Journal of the American Chemical Society, 2011, 133, 16326-16329.	6.6	83
80	Multimodal imaging of sustained drug release from 3-D poly(propylene fumarate) (PPF) scaffolds. Journal of Controlled Release, 2011, 156, 239-245.	4.8	58
81	CEST MRI Reporter Genes. Methods in Molecular Biology, 2011, 711, 271-280.	0.4	12
82	MRI of CEST-Based Reporter Gene. Methods in Molecular Biology, 2011, 771, 733-746.	0.4	6
83	Highâ€throughput screening of chemical exchange saturation transfer MR contrast agents. Contrast Media and Molecular Imaging, 2010, 5, 162-170.	0.4	103
84	PARACEST MRI with improved temporal resolution. Magnetic Resonance in Medicine, 2009, 61, 399-408.	1.9	74
85	Using Two Chemical Exchange Saturation Transfer Magnetic Resonance Imaging Contrast Agents for Molecular Imaging Studies. Accounts of Chemical Research, 2009, 42, 915-924.	7.6	103
86	Design and characterization of a new irreversible responsive PARACEST MRI contrast agent that detects nitric oxide. Magnetic Resonance in Medicine, 2007, 58, 1249-1256.	1.9	112
87	The cytotoxicity and mechanisms of 1,2-naphthoquinone thiosemicarbazone and its metal derivatives against MCF-7 human breast cancer cells. Toxicology and Applied Pharmacology, 2004, 197, 40-48.	1.3	117
88	Recent developments in the determination of urinary cancer biomarkers by capillary electrophoresis. Electrophoresis, 2004, 25, 1473-1484.	1.3	56
89	Simultaneous determination of catecholamines and polyamines in PC-12 cell extracts by micellar electrokinetic capillary chromatography with ultraviolet absorbance detection. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2004, 805, 281-288.	1.2	51
90	Separation and Quantitation of Short-Chain Coenzyme A's in Biological Samples by Capillary Electrophoresis. Analytical Chemistry, 2003, 75, 78-82.	3.2	26

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91	Radiosensitization mechanism of riboflavin in vitro. Science in China Series C: Life Sciences, 2002, 45, 344.	1.3	4
92	Photophysical and photochemical processes of riboflavin (vitamin B2) by means of the transient absorption spectra in aqueous solution. Science in China Series B: Chemistry, 2001, 44, 39-48.	0.8	30