

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	An in vivo implementation of the MEX MRI for myelin fraction of mice brain. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2022, 35, 267-276.	2.0	1
2	What do we know about dynamic glucose-enhanced (DGE) MRI and how close is it to the clinics? Horizon 2020 GLINT consortium report. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2022, 35, 87-104.	2.0	7
3	Breast cancer imaging with glucosamine CEST (chemical exchange saturation transfer) MRI: first human experience. European Radiology, 2022, 32, 7365-7373.	4.5	7
4	Quantitative Magnetization <scp>EXchange MRI</scp> Measurement of Liver Fibrosis Model in Rodents. Journal of Magnetic Resonance Imaging, 2022, , .	3.4	1
5	Phosphate buffer-catalyzed kinetics of mutarotation of glucosamine investigated by NMR spectroscopy. Carbohydrate Research, 2022, 517, 108581.	2.3	1
6	Identification of water compartments in spinal cords by 2 H double quantum filtered NMR. NMR in Biomedicine, 2021, 34, e4452.	2.8	2
7	Molecular imaging of cancer by glucosamine chemical exchange saturation transfer MRI: A preclinical study. NMR in Biomedicine, 2021, 34, e4431.	2.8	9
8	Deuterium double quantum-filtered NMR studies of peripheral and optic nerves. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2021, 34, 889-902.	2.0	1
9	New insight into the organization of myelin water using deuterium NMR. Magnetic Resonance in Medicine, 2020, 84, 535-541.	3.0	3
10	Quantification of hydroxyl exchange of Dâ€Glucose at physiological conditions for optimization of glucoCEST MRI at 3, 7 and 9.4 Tesla. NMR in Biomedicine, 2019, 32, e4113.	2.8	49
11	Molecular imaging of tumors by chemical exchange saturation transfer MRI of glucose analogs. Quantitative Imaging in Medicine and Surgery, 2019, 9, 1731-1746.	2.0	24
12	CEST MRI of 3â€Oâ€methylâ€Dâ€glucose on different breast cancer models. Magnetic Resonance in Medicine, 2018, 79, 1061-1069.	3.0	44
13	3-O-Methyl-d-glucose mutarotation and proton exchange rates assessed by 13C, 1H NMR and by chemical exchange saturation transfer and spin lock measurements. Journal of Biomolecular NMR, 2018, 72, 93-103.	2.8	8
14	Teriparatide attenuates scarring around murine cranial bone allograft via modulation of angiogenesis. Bone, 2017, 97, 192-200.	2.9	15
15	Sodium NMR/MRI for anisotropic systems. NMR in Biomedicine, 2016, 29, 144-152.	2.8	20
16	Hyperpolarized ⁶ Li as a probe for hemoglobin oxygenation level. Contrast Media and Molecular Imaging, 2016, 11, 41-46.	0.8	15
17	Glucosamine and N-acetyl glucosamine as new CEST MRI agents for molecular imaging of tumors. Scientific Reports, 2016, 6, 32648.	3.3	58
18	NMR Studies of the Equilibria and Reaction Rates in Aqueous Solutions of Formaldehyde. Journal of Physical Chemistry B, 2015, 119, 4479-4487.	2.6	53

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19	<i>In vivo</i> assessment of aged human skin with a unilateral NMR scanner. NMR in Biomedicine, 2015, 28, 656-666.	2.8	15
20	Rapid method for assessing relative tissue stiffness using MR acoustic radiation force imaging. International Journal of Imaging Systems and Technology, 2014, 24, 103-110.	4.1	4
21	Functional molecular imaging of tumors by chemical exchange saturation transfer MRI of 3â€Oâ€Methylâ€Dâ€glucose. Magnetic Resonance in Medicine, 2014, 72, 1375-1380.	3.0	70
22	Sialo-CEST: chemical exchange saturation transfer NMR of oligo- and poly-sialic acids and the assignment of their hydroxyl groups using selective- and HSQC-TOCSY. Carbohydrate Research, 2014, 389, 165-173.	2.3	21
23	NMR studies of proton exchange kinetics in aqueous formaldehyde solutions. Journal of Magnetic Resonance, 2014, 242, 107-112.	2.1	12
24	Collagen Composition and Contentâ€Dependent Contrast in Porcine Annulus Fibrosus Achieved by Using Double Quantum and Magnetization Transfer Filtered UTE MRI. Magnetic Resonance in Medicine, 2014, 71, 388-393.	3.0	5
25	Optic nerve: Separating compartments based on 23Na TQF spectra and TQF-diffusion anisotropy. Journal of Magnetic Resonance, 2013, 231, 61-65.	2.1	9
26	DQF-MT MRI of connective tissues: application to tendon and muscle. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2013, 26, 203-214.	2.0	6
27	Molecular imaging of tumors and metastases using chemical exchange saturation transfer (CEST) MRI. Scientific Reports, 2013, 3, 3045.	3.3	101
28	Magnetic alignment and quadrupolar/paramagnetic cross-correlation in complexes of Na with LnDOTP5â^'. Journal of Magnetic Resonance, 2012, 216, 114-120.	2.1	3
29	Assessment of glycosaminoglycan concentration changes in the intervertebral disc via chemical exchange saturation transfer. NMR in Biomedicine, 2012, 25, 255-261.	2.8	70
30	Characterization and mapping of dipolar interactions within macromolecules in tissues using a combination of DQF, MT and UTE MRI. NMR in Biomedicine, 2012, 25, 1152-1159.	2.8	12
31	Monitoring of the effect of intervertebral disc nucleus pulposus ablation by MRI. NMR in Biomedicine, 2010, 23, 554-562.	2.8	7
32	²³ Na and ² H magnetic resonance studies of osteoarthritic and osteoporotic articular cartilage. Magnetic Resonance in Medicine, 2010, 64, 653-661.	3.0	10
33	Nearly 106-fold enhancements in intermolecular 1H double-quantum NMR experiments by nuclear hyperpolarization. Journal of Magnetic Resonance, 2009, 200, 142-146.	2.1	32
34	Double quantum transition as the origin of the central dip in the z-spectrum of HDO in variably stretched gel. Journal of Magnetic Resonance, 2009, 198, 197-203.	2.1	17
35	Magnetization transfer based contrast for imaging denatured collagen. Journal of Magnetic Resonance Imaging, 2008, 27, 1155-1163.	3.4	14
36	A new MRI method, tested <i>in vitro</i> for the assessment of thermal coagulation and demonstrated <i>in vivo</i> on focused ultrasound ablation. NMR in Biomedicine, 2008, 21, 637-643.	2.8	6

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37	Enhancement of magnetization transfer effects by inter-molecular multiple quantum filtered NMR. Journal of Magnetic Resonance, 2008, 190, 149-153.	2.1	19
38	Chemical exchange saturation transfer by intermolecular double-quantum coherence. Journal of Magnetic Resonance, 2008, 194, 29-32.	2.1	25
39	Assessment of glycosaminoglycan concentration <i>in vivo</i> by chemical exchange-dependent saturation transfer (gagCEST). Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 2266-2270.	7.1	511
40	Comparison of the effects of mechanical and osmotic pressures on the collagen fiber architecture of intact and proteoglycan-depleted articular cartilage. European Biophysics Journal, 2007, 36, 529-538.	2.2	8
41	Collagen Fibers as a Chiral Agent:Â A Demonstration of Stereochemistry Effects. Journal of the American Chemical Society, 2006, 128, 15956-15957.	13.7	40
42	Multinuclear NMR and microscopic MRI studies of the articular cartilage nanostructure. NMR in Biomedicine, 2006, 19, 877-893.	2.8	48
43	Multinuclear NMR and MRI studies of the maturation of pig articular cartilage. Magnetic Resonance in Medicine, 2006, 55, 532-540.	3.0	40
44	Neotendon formation induced by manipulation of the Smad8 signalling pathway in mesenchymal stem cells. Journal of Clinical Investigation, 2006, 116, 940-952.	8.2	221
45	The effect of detachment of the articular cartilage from its calcified zone on the cartilage microstructure, assessed by2H-spectroscopic double quantum filtered MRI. Journal of Orthopaedic Research, 2005, 23, 109-117.	2.3	37
46	Measurements of intracellular volumes by59Co and2H/1H NMR and their physiological applications. NMR in Biomedicine, 2005, 18, 104-110.	2.8	5
47	Nuclear magnetic resonance parameters for monitoring coagulation of liver tissue. Magnetic Resonance in Medicine, 2005, 54, 1082-1086.	3.0	9
48	The effect of decalcification on the microstructure of articular cartilage assessed by 2H double quantum filtered spectroscopic MRI. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2005, 18, 231-237.	2.0	9
49	New MRI method with contrast based on the macromolecular characteristics of tissues. Magnetic Resonance in Medicine, 2003, 50, 229-234.	3.0	20
50	A new method for suppressing the central transition in I=3/2 NMR spectra with a demonstration for 23Na in bovine articular cartilage. Journal of Magnetic Resonance, 2003, 165, 276-281.	2.1	21
51	Evaluation of collagen fiber maturation and ordering in regenerating tendons employing H-1 double quantum filtered NMR spectroscopy. Journal of Orthopaedic Research, 2003, 21, 149-156.	2.3	12
52	Multiple Quantum Filtered NMR Studies of the Interaction between Collagen and Water in the Tendon. Journal of the American Chemical Society, 2002, 124, 3125-3132.	13.7	57
53	Changes in axonal morphology in experimental autoimmune neuritis as studied by highb-value q-space1H and2H DQF diffusion magnetic resonance spectroscopy. Magnetic Resonance in Medicine, 2002, 48, 71-81.	3.0	27
54	Mapping the fiber orientation in articular cartilage at rest and under pressure studied by2H double quantum filtered MRI. Magnetic Resonance in Medicine, 2002, 48, 322-330.	3.0	46

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55	NMR Spectroscopic Characterization of Sarcolemmal Permeability During Myocardial Ischemia and Reperfusion. Journal of Molecular and Cellular Cardiology, 2001, 33, 1421-1433.	1.9	15
56	Excretion of a Phosphorus-Containing Carbohydrate byStreptomycessp. A50. Journal of Natural Products, 2001, 64, 1538-1540.	3.0	2
57	Multiquantum filters and order in tissues. NMR in Biomedicine, 2001, 14, 112-132.	2.8	139
58	A Study of Dipolar Interactions and Dynamic Processes of Water Molecules in Tendon by1H and2H Homonuclear and Heteronuclear Multiple-Quantum-Filtered NMR Spectroscopy. Journal of Magnetic Resonance, 1999, 137, 295-310.	2.1	81
59	Anisotropic and restricted diffusion of water in the sciatic nerve: A2H double-quantum-filtered NMR study. Magnetic Resonance in Medicine, 1999, 42, 461-466.	3.0	21
60	1H double-quantum-filtered MR imaging as a new tool for assessment of healing of the ruptured Achilles tendon. Magnetic Resonance in Medicine, 1999, 42, 884-889.	3.0	24
61	Efficient Limitation of Intracellular Edema and Sodium Accumulation by Cardioplegia is Dissociated from Recovery of Rat Hearts from Cold Ischemic Storage. Journal of Molecular and Cellular Cardiology, 1999, 31, 1795-1808.	1.9	5
62	Quantification of the Contribution of Extracellular Sodium to23Na Multiple-Quantum-Filtered NMR Spectra of Suspensions of Human Red Blood Cells. Journal of Magnetic Resonance, 1998, 131, 92-96.	2.1	35
63	Observation of a1H double quantum filtered signal of water in biological tissues. Magnetic Resonance in Medicine, 1998, 39, 11-17.	3.0	38
64	Proton double-quantum filtered MRI—A new method for imaging ordered tissues. Magnetic Resonance in Medicine, 1998, 40, 720-726.	3.0	36
65	Intracellular Volumes and Membrane Permeability in Rat Hearts During Prolonged Hypothermic Preservation with St Thomas and University of Wisconsin Solutions. Journal of Molecular and Cellular Cardiology, 1998, 30, 1329-1339.	1.9	12
66	Intermittent Ischemia: Energy Metabolism, Cellular Volume Regulation, Adenosine and Insights into Preconditioning. Journal of Molecular and Cellular Cardiology, 1997, 29, 1715-1730.	1.9	22
67	Comparison of action of the anti-neoplastic drug lonidamine on drug-sensitive and drug-resistant human breast cancer cells:31 P and 13C nuclear magnetic resonance studies. Breast Cancer Research and Treatment, 1997, 43, 15-25.	2.5	15
68	Selective Enhancement of NMR Signals forα-Cyclodextrin with Laser-Polarized Xenon. Angewandte Chemie International Edition in English, 1997, 36, 2368-2370.	4.4	67
69	Selektive NMR‣ignalverstäkung bei αâ€Cyclodextrin durch laserpolarisiertes Xenon. Angewandte Chemie, 1997, 109, 2464-2466.	2.0	9
70	Measurement of strain exerted on blood vessel walls by double-quantum-filtered2H NMR. Magnetic Resonance in Medicine, 1997, 37, 69-75.	3.0	18
71	In vivo23Na NMR studies of myotonic dystrophy. Magnetic Resonance in Medicine, 1997, 37, 192-196.	3.0	40
72	In vivo observation of anisotropic motion of brain water using2H double quantum filtered NMR spectroscopy. Magnetic Resonance in Medicine, 1997, 37, 197-203.	3.0	21

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73	Imaging H217O distribution in a phantom and measurement of metabolically produced H217O in live mice by proton NMR. , 1997, 10, 333-340.		23
74	Continuous Monitoring of Intracellular Volumes in Isolated Rat Hearts during Normothermic Perfusion and Ischemia. Journal of Magnetic Resonance, 1997, 124, 42-50.	2.1	29
75	Discrimination between the Different Compartments in Sciatic Nerve by2H Double-Quantum-Filtered NMR. Journal of Magnetic Resonance, 1997, 129, 98-104.	2.1	35
76	A23Na Multiple-Quantum-Filtered NMR Study of the Effect of the Cytoskeleton Conformation on the Anisotropic Motion of Sodium Ions in Red Blood Cells. Journal of Magnetic Resonance Series B, 1996, 110, 16-25.	1.6	33
77	Nuclear Magnetic Resonance (NMR) Analysis of Ligand Receptor Interactions: The Cholinergic System — A Model. Critical Reviews in Biochemistry and Molecular Biology, 1996, 31, 273-301.	5.2	19
78	Intracellular Volume Measurement and Detection of Edema: Multinuclear NMR Studies of Intact Rat Hearts during Normothermic Ischemia. Magnetic Resonance in Medicine, 1995, 33, 515-520.	3.0	27
79	31P NMR and triple quantum filtered23Na NMR studies of the effects of inhibition of Na+/H+ exchange on intracellular sodium and pH in working and ischemic hearts. Magnetic Resonance in Medicine, 1994, 32, 556-564.	3.0	57
80	A new method for proton detection of H217O with potential applications for functional MRI. Magnetic Resonance in Medicine, 1994, 32, 789-793.	3.0	37
81	Complete elimination of the extracellular23Na NMR signal in triple quantum filtered spectra of rat hearts in the presence of shift reagents. Magnetic Resonance in Medicine, 1993, 30, 503-506.	3.0	47
82	Inhibition of Sodium Influx and Improved Preservation of Rat Hearts During Hypothermic Ischemia by Furosemide and Bumetanide: A 23Na- and 31P-NMR Study. Journal of Molecular and Cellular Cardiology, 1993, 25, 1403-1411.	1.9	23
83	Single and Multiple Quantum NMR Relaxation Times of Sodium and Potassium in Red Blood Cells. Israel Journal of Chemistry, 1992, 32, 299-304.	2.3	15
84	The formation of a second-rank tensor in 23Na double-quantum-filtered NMR as an indicator for order in a biological tissue. Journal of Magnetic Resonance, 1992, 98, 223-229.	0.5	32
85	Determination of absolute values of dipolar cross-relaxation rates for ligands bound to macromolecules using double-selectiveT1. Magnetic Resonance in Chemistry, 1992, 30, 461-465.	1.9	27
86	Sodium Ion Transport in Rat Hearts during Cold Ischemic Storage:23Na and31P NMR Study. Magnetic Resonance in Medicine, 1992, 28, 249-263.	3.0	13
87	Acetylcholine interactions with tryptophan-184 of the α-subunit of the nicotinic acetylcholine receptor revealed by transferred nuclear Overhauser effect. FEBS Letters, 1991, 291, 225-228.	2.8	14
88	An observation of 23Na NMR triple-quantum dynamic shift in solution. Journal of Magnetic Resonance, 1991, 94, 439-444.	0.5	6
89	23Na,59Co and2H NMR studies of experimental acute pancreatitis. NMR in Biomedicine, 1991, 4, 182-186.	2.8	2
90	Nuclear magnetic resonance line shapes of double and triple quantum coherences of spin 3/2 nuclei. Journal of Chemical Physics, 1991, 95, 7114-7118.	3.0	22

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91	An apparatus for applying a mechanical massage to rat hearts inside a wide-bore NMR spectrometer. Magnetic Resonance in Medicine, 1990, 15, 392-396.	3.0	2
92	Differences in metabolite content between intact pancreases and their perchloric acid extracts. A 2D1H/31P correlation NMR study. NMR in Biomedicine, 1990, 3, 220-226.	2.8	14
93	Spectroscopic and solution properties of the cobalt(III) hexaimidazole ion. Inorganic Chemistry, 1989, 28, 1405-1407.	4.0	13
94	Monitoring the transport and phosphorylation of 2-deoxy-D-glucose in tumor cells in vivo and in vitro by13C nuclear magnetic resonance spectroscopy. FEBS Letters, 1989, 247, 86-90.	2.8	25
95	Nuclear magnetic resonance line shapes of exchanging spin 3/2 nuclei. Journal of Chemical Physics, 1988, 89, 5584-5588.	3.0	22
96	Sodium-23 NMR relaxation times in body fluids. Magnetic Resonance in Medicine, 1986, 3, 927-934.	3.0	31
97	The determination of intracellular water space by NMR. FEBS Letters, 1985, 193, 75-78.	2.8	21
98	NMR relaxation studies of intracellular Na+ in red blood cells. Biophysical Chemistry, 1984, 20, 275-283.	2.8	71
99	NMR Spectroscopy of Bilirubin and its Derivatives. Israel Journal of Chemistry, 1983, 23, 177-186.	2.3	111
100	Carbon-13 nuclear magnetic resonance study of the motional behaviour of bilirubin and of some of its derivatives. Magnetic Resonance in Chemistry, 1981, 17, 79-87.	0.7	23
101	On the assignment of the carbon-13 NMR spectrum of bilirubin. Magnetic Resonance in Chemistry, 1980, 13, 59-62.	0.7	8
102	The carbon-13 NMR spectrum of dimethoxybilirubin dimethyl ester. Magnetic Resonance in Chemistry, 1980, 14, 319-321.	0.7	2
103	Kinetic and Magnetic Properties of Cobalt(III) Ion in the Active Site of Carbonic Anhydrase. FEBS Journal, 1979, 93, 313-322.	0.2	10
104	The effect of spin delocalization on the proton magnetic relaxation in transition metal hexaaquo ions. Journal of Chemical Physics, 1978, 68, 3074-3077.	3.0	23
105	Carbon-13 NMR Spectrum of Bilirubin. Spectroscopy Letters, 1977, 10, 881-892.	1.0	9
106	Nuclear-Magnetic-Resonance Studies of Carboxypeptidase B. Binding of Inhibitors to the Manganese Enzyme. FEBS Journal, 1975, 52, 487-492.	0.2	9
107	Effect of covalency on the electron–nuclear dipolar relaxation in paramagnetic complexes. Journal of Chemical Physics, 1975, 62, 1021-1026.	3.0	26
108	Proton magnetic relaxation in solutions of manganese-carbonic anhydrase. FEBS Letters, 1973, 30, 351-354.	2.8	23

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109	Proton NMR and covalency parameters of ruthenium(III) hexaammine. Journal of Chemical Physics, 1973, 59, 5585-5590.	3.0	16
110	2H Double Quantum Filtered NMR Histology and Diffusion Measurements in Isolated Nerves and Blood Vessels. , 0, , 307-321.		0
111	NMR Imaging of Rigid Biological Tissues. , 0, , 445-457.		3