Chrit Tw Moonen

List of Publications by Year
in descending order

240	14,558	13865 67	23533 111
papers	citations	h-index	g-index

245	245	245	10525
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Understanding ultrasound induced sonoporation: Definitions and underlying mechanisms. Advanced Drug Delivery Reviews, 2014, 72, 49-64.	13.7	598
2	Magnetic resonance temperature imaging for guidance of thermotherapy. Journal of Magnetic Resonance Imaging, 2000, 12, 525-533.	3.4	487
3	Water diffusion and acute stroke. Magnetic Resonance in Medicine, 1994, 31, 154-163.	3.0	396
4	Echo-planar time course MRI of cat brain oxygenation changes. Magnetic Resonance in Medicine, 1991, 22, 159-166.	3.0	387
5	Multisection proton MR spectroscopic imaging of the brain.. Radiology, 1993, 188, 277-282.	7.3	366
6	A fast calculation method for magnetic field inhomogeneity due to an arbitrary distribution of bulk susceptibility. Concepts in Magnetic Resonance, 2003, 19B, 26-34.	1.3	319
7	Functional Magnetic Resonance Imaging Brain Mapping in Psychiatry: Methodological Issues Illustrated in a Study of Working Memory in Schizophrenia. Neuropsychopharmacology, 1998, 18, 186-196.	5.4	293
8	Imaging of diffusion and microcirculation with gradient sensitization: Design, strategy, and significance. Journal of Magnetic Resonance Imaging, 1991, 1, 7-28.	3.4	272
9	Volumetric HIFU ablation under 3D guidance of rapid MRI thermometry. Medical Physics, 2009, 36, 3521-3535.	3.0	264
10	Metabolism of human gliomas: assessment with H-1 MR spectroscopy and F-18 fluorodeoxyglucose PET.. Radiology, 1990, 177, 633-641.	7.3	251
11	In Vivo MR Imaging of Intravascularly Injected Magnetically Labeled Mesenchymal Stem Cells in Rat Kidney and Liver. Radiology, 2004, 233, 781-789.	7.3	232
12	Real-time adaptive methods for treatment of mobile organs by MRI-controlled high-intensity focused ultrasound. Magnetic Resonance in Medicine, 2007, 57, 319-330.	3.0	231
13	Diffusion tensor MRI of the human kidney. Journal of Magnetic Resonance Imaging, 2001, 14, 42-49.	3.4	217
14	Diffusion-weighted MR Imaging with Apparent Diffusion Coefficient and Apparent Diffusion Tensor Maps in Cervical Spondylotic Myelopathy. Radiology, 2003, 229, 37-43.	7.3	209
15	Complete separation of intracellular and extracellular information in NMR spectra of perfused cells by diffusion-weighted spectroscopy.. Proceedings of the National Academy of Sciences of the United States of America, 1991, 88, 3228-3232.	7.1	206
16	Pharmacological and physical vessel modulation strategies to improve EPR-mediated drug targeting to tumors. Advanced Drug Delivery Reviews, 2017, 119, 44-60.	13.7	194
17	A. functional MRI technique combining principles of echo-shifting with a train of observations (PRESTO). Magnetic Resonance in Medicine, 1993, 30, 764-768.	3.0	184
18	Real-time MR-thermometry and dosimetry for interventional guidance on abdominal organs. Magnetic Resonance in Medicine, 2010, 63, 1080-1087.	3.0	180

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19	Functional magnetic resonance imaging in medicine and physiology. Science, 1990, 250, 53-61.	12.6	178
20	Ultrasound triggered, image guided, local drug delivery. Journal of Controlled Release, 2010, 148, 25-33.	9.9	165
21	Evaluation of Restricted Diffusion in Cylinders. Phosphocreatine in Rabbit Leg Muscle. Journal of Magnetic Resonance Series B, 1994, 103, 255-260.	1.6	161
22	Diffusion tensor MRI of the spinal cord. Magnetic Resonance in Medicine, 2000, 44, 884-892.	3.0	155
23	Fast proton spectroscopic imaging of human brain using multiple spinâ€echoes. Magnetic Resonance in Medicine, 1993, 30, 409-414.	3.0	148
24	Magnetic resonance temperature imaging. International Journal of Hyperthermia, 2005, 21, 515-531.	2.5	145
25	Three-dimensional functional magnetic resonance imaging of human brain on a clinical 1.5-T scanner.. Proceedings of the National Academy of Sciences of the United States of America, 1995, 92, 6906-6910.	7.1	142
26	Local hyperthermia with MR-guided focused ultrasound: Spiral trajectory of the focal point optimized for temperature uniformity in the target region. Journal of Magnetic Resonance Imaging, 2000, 12, 571-583.	3.4	140
27	On the precision of diffusion/perfusion imaging by gradient sensitization. Magnetic Resonance in Medicine, 1992, 23, 122-129.	3.0	138
28	MR thermometry for monitoring tumor ablation. European Radiology, 2007, 17, 2401-2410.	4.5	136
29	MR Evaluation of the Glomerular Homing of Magnetically Labeled Mesenchymal Stem Cells in a Rat Model of Nephropathy. Radiology, 2006, 238, 200-210.	7.3	133
30	Hyperthermia by MR-guided focused ultrasound: Accurate temperature control based on fast MRI and a physical model of local energy deposition and heat conduction. Magnetic Resonance in Medicine, 2000, 43, 342-347.	3.0	129
31	Restricted and anisotropic displacement of water in healthy cat brain and in stroke studied by NMR diffusion imaging. Magnetic Resonance in Medicine, 1991, 19, 327-332.	3.0	128
32	In Vivo measurement of cerebral oxygen consumption and blood flow using17O magnetic resonance imaging. Magnetic Resonance in Medicine, 1991, 21, 313-319.	3.0	128
33	Improved Volumetric MR-HIFU Ablation by Robust Binary Feedback Control. IEEE Transactions on Biomedical Engineering, 2010, 57, 103-113.	4.2	125
34	Functional Mapping of Human Sensorimotor Cortex with 3D BOLD fMRI Correlates Highly with H215O PET rCBF. Journal of Cerebral Blood Flow and Metabolism, 1996, 16, 755-764.	4.3	119
35	Threeâ€dimensional spatial and temporal temperature control with MR thermometryâ€guided focused ultrasound (MRgHIFU). Magnetic Resonance in Medicine, 2009, 61, 603-614.	3.0	117
36	A fast gradient-recalled MRI technique with increased sensitivity to dynamic susceptibility effects. Magnetic Resonance in Medicine, 1992, 26, 184-189.	3.0	116

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37	Realâ€time 3D target tracking in MRI guided focused ultrasound ablations in moving tissues. Magnetic Resonance in Medicine, 2010, 64, 1704-1712.	3.0	111
38	Real-time MR temperature mapping of rabbit liver in vivo during thermal ablation. Magnetic Resonance in Medicine, 2003, 50, 322-330.	3.0	109
39	Invited. On the feasibility of MRI-guided focused ultrasound for local induction of gene expression. Journal of Magnetic Resonance Imaging, 1998, 8, 101-104.	3.4	107
40	A method for MRI guidance of intercostal high intensity focused ultrasound ablation in the liver. Medical Physics, 2010, 37, 2533-2540.	3.0	107
41	Fast lipid-suppressed MR temperature mapping with echo-shifted gradient-echo imaging and spectral-spatial excitation. Magnetic Resonance in Medicine, 1999, 42, 53-59.	3.0	106
42	Phase Navigator Correction in 3D fMRI Improves Detection of Brain Activation: Quantitative Assessment with a Graded Motor Activation Procedure. NeuroImage, 1998, 8, 240-248.	4.2	105
43	Brain regional distribution pattern of metabolite signal intensities in young adults by proton magnetic resonance spectroscopic imaging. Neurology, 1995, 45, 1384-1391.	1.1	103
44	Automatic spatial and temporal temperature control for MR-guided focused ultrasound using fast 3D MR thermometry and multispiral trajectory of the focal point. Magnetic Resonance in Medicine, 2004, 52, 1005-1015.	3.0	101
45	In Vivo proton spectroscopy and spectroscopic imaging of {1-13C}-g1ucose and its metabolic products. Magnetic Resonance in Medicine, 1993, 30, 544-551.	3.0	98
46	High-Intensity Focused Ultrasound (HIFU) Triggers Immune Sensitization of Refractory Murine Neuroblastoma to Checkpoint Inhibitor Therapy. Clinical Cancer Research, 2020, 26, 1152-1161.	7.0	94
47	Aquaporin 4 correlates with apparent diffusion coefficient and hydrocephalus severity in the rat brain: A combined MRIâ€“histological study. NeuroImage, 2009, 47, 659-666.	4.2	93
48	Differential aquaporin 4 expression during edema build-up and resolution phases of brain inflammation. Journal of Neuroinflammation, 2011, 8, 143.	7.2	91
49	Feasibility of MR-guided focused ultrasound with real-time temperature mapping and continuous sonication for ablation of VX2 carcinoma in rabbit thigh. Magnetic Resonance in Medicine, 2003, 49, 89-98.	3.0	90
50	Stability of real-time MR temperature mapping in healthy and diseased human liver. Journal of Magnetic Resonance Imaging, 2004, 19, 438-446.	3.4	89
51	Invivo nmr diffusion spectroscopy:31p application to phosphorus metabolites in muscle. Magnetic Resonance in Medicine, 1990, 13, 467-477.	3.0	86
52	Short Echo Time Proton MR Spectroscopic Imaging. Journal of Computer Assisted Tomography, 1993, 17, 1-14.	0.9	86
53	fMRI Applications in Schizophrenia Research. NeuroImage, 1996, 4, S118-S126.	4.2	86
54	Sonochemotherapy: from bench to bedside. Frontiers in Pharmacology, 2015, 6, 138.	3.5	84

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55	Realâ€time volumetric MRI thermometry of focused ultrasound ablation in vivo: a feasibility study in pig liver and kidney. NMR in Biomedicine, 2011, 24, 145-153.	2.8	83
56	MR-Guided High-Intensity Focused Ultrasound Ablation of Breast Cancer with a Dedicated Breast Platform. CardioVascular and Interventional Radiology, 2013, 36, 292-301.	2.0	82
57	On-line correction and visualization of motion during MRI-controlled hyperthermia. Magnetic Resonance in Medicine, 2001, 45, 128-137.	3.0	81
58	Unraveling diffusion constants in biological tissue by combining Carr-Purcell-Meiboom-Gill imaging and pulsed field gradient NMR. Magnetic Resonance in Medicine, 1996, 36, 907-913.	3.0	80
59	Image-guided, noninvasive, spatiotemporal control of gene expression. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 1175-1180.	7.1	77
60	The road to clinical use of high-intensity focused ultrasound for liver cancer: technical and clinical consensus. Journal of Therapeutic Ultrasound, 2013, 1, 13.	2.2	76
61	Sonopermeation to improve drug delivery to tumors: from fundamental understanding to clinical translation. Expert Opinion on Drug Delivery, 2018, 15, 1249-1261.	5.0	76
62	Quantification of nearâ€field heating during volumetric MRâ€HIFU ablation. Medical Physics, 2011, 38, 272-282.	3.0	74
63	Ultrasound-mediated intracellular drug delivery using microbubbles and temperature-sensitive liposomes. Journal of Controlled Release, 2011, 155, 442-448.	9.9	73
64	Fast 3D functional magnetic resonance imaging at 1.5 T with spiral acquisition. Magnetic Resonance in Medicine, 1996, 36, 620-626.	3.0	72
65	Spatial and temporal control of expression of therapeutic genes using heat shock protein promoters. Methods, 2005, 35, 188-198.	3.8	72
66	First clinical experience with a dedicated MRI-guided high-intensity focused ultrasound system for breast cancer ablation. European Radiology, 2016, 26, 4037-4046.	4.5	72
67	Real-Time Control of Focused Ultrasound Heating Based on Rapid MR Thermometry. Investigative Radiology, 1999, 34, 190-193.	6.2	72
68	The noninvasive determination of linoleic acid content of human adipose tissue by natural abundance carbon-13 nuclear magnetic resonance. Magnetic Resonance in Medicine, 1988, 6, 140-157.	3.0	67
69	3-dimensional functional imaging of human brain using echo-shifted FLASH MRI. Magnetic Resonance in Medicine, 1994, 32, 150-155.	3.0	65
70	Control of transgene expression using local hyperthermia in combination with a heat-sensitive promoter. Journal of Gene Medicine, 2000, 2, 89-96.	2.8	65
71	The role of ultrasound and magnetic resonance in local drug delivery. Journal of Magnetic Resonance Imaging, 2008, 27, 400-409.	3.4	64
72	High field localized proton spectroscopy in small volumes: greatly improved localization and shimming using shielded strong gradients. Magnetic Resonance in Medicine, 1989, 10, 256-265.	3.0	63

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73	Fast Magnetic-Resonance Temperature Imaging. Journal of Magnetic Resonance Series B, 1996, 112, 86-90.	1.6	61
74	Magnetic resonance-guided high-intensity focused ultrasound (MR-HIFU) ablation of liver tumours. Cancer Imaging, 2012, 12, 397-394.	2.8	60
75	Fast echo-shifted gradient-recalled MRI: Combining a short repetition time with variable T2* weighting. Magnetic Resonance in Medicine, 1993, 30, 68-75.	3.0	58
76	Real-time monitoring of radiofrequency ablation of liver tumors using thermal-dose calculation by MR temperature imaging: initial results in nine patients, including follow-up. European Radiology, 2010, 20, 193-201.	4.5	57
77	Magnetic resonance-high intensity focused ultrasound (MR-HIFU) therapy of symptomatic uterine fibroids with unrestrictive treatment protocols: A systematic review and meta-analysis. European Journal of Radiology, 2019, 120, 108700.	2.6	56
78	Double-quantum surface-coil NMR studies of sodium and potassium in the rat brain. Magnetic Resonance in Medicine, 1991, 18, 80-92.	3.0	54
79	Reproducibility of human 3D fMRI brain maps acquired during a motor task. , 1996, 4, 113-121.		54
80	Imaging the changes in renalT1 induced by the inhalation of pure oxygen: A feasibility study. Magnetic Resonance in Medicine, 2002, 47, 728-735.	3.0	53
81	In vivo T2 -based MR thermometry in adipose tissue layers for high-intensity focused ultrasound near-field monitoring. Magnetic Resonance in Medicine, 2014, 72, 1057-1064.	3.0	53
82	Real time monitoring of radiofrequency ablation based on MR thermometry and thermal dose in the pig liver in vivo. European Radiology, 2008, 18, 408-416.	4.5	51
83	MRI-guided focused ultrasound: methodology and applications. IEEE Transactions on Medical Imaging, 2006, 25, 723-731.	8.9	49
84	Motion correction in MR thermometry of abdominal organs: A comparison of the referenceless vs. the multibaseline approach. Magnetic Resonance in Medicine, 2010, 64, 1373-1381.	3.0	49
85	Duration of ultrasound-mediated enhanced plasma membrane permeability. International Journal of Pharmaceutics, 2015, 482, 92-98.	5.2	49
86	In vivo17O NMR study of rat brain during17O2inhalation. Magnetic Resonance in Medicine, 1992, 24, 370-374.	3.0	47
87	Advanced Ultrasound Technologies for Diagnosis and Therapy. Journal of Nuclear Medicine, 2018, 59, 740-746.	5.0	47
88	Single-shot diffusion MRI of human brain on a conventional clinical instrument. Magnetic Resonance in Medicine, 1996, 35, 671-677.	3.0	46
89	MRI methods for the evaluation of high intensity focused ultrasound tumor treatment: Current status and future needs. Magnetic Resonance in Medicine, 2016, 75, 302-317.	3.0	45
90	Highly Effective Water Suppression for in vivo proton NMR Spectroscopy (DRYSTEAM). Journal of Magnetic Resonance, 1990, 88, 28-41.	0.5	44

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91	Rapid recording of solvent-suppressed 2D COSY spectra with inherent quadrature detection using pulsed field gradients. Journal of Magnetic Resonance, 1991, 93, 423-429.	0.5	44
92	Gradient-enhanced heteronuclear correlation spectroscopy. Theory and experimental aspects. Journal of Magnetic Resonance, 1992, 100, 282-302.	0.5	44
93	MR-Guided Thermotherapy of Abdominal Organs Using a Robust PCA-Based Motion Descriptor. IEEE Transactions on Medical Imaging, 2011, 30, 1987-1995.	8.9	43
94	Local delivery of magnetic resonance (MR) contrast agent in kidney using thermosensitive liposomes and MR imaging-guided local hyperthermia: A feasibility study in vivo. Journal of Magnetic Resonance Imaging, 2005, 22, 534-540.	3.4	42
95	Assessing the barriers to imageâ€guided drug delivery. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2014, 6, 1-14.	6.1	42
96	Intraluminal high intensity ultrasound treatment in the esophagus under fast MR temperature mapping: In vivo studies. Magnetic Resonance in Medicine, 2005, 54, 975-982.	3.0	41
97	Improvement of MRIâ€functional measurement with automatic movement correction in native and transplanted kidneys. Journal of Magnetic Resonance Imaging, 2008, 28, 970-978.	3.4	41
98	Spectrally selective pencilâ€beam navigator for motion compensation of MRâ€guided highâ€intensity focused ultrasound therapy of abdominal organs. Magnetic Resonance in Medicine, 2011, 66, 102-111.	3.0	40
99	Robust Adaptive Extended Kalman Filtering for Real Time MR-Thermometry Guided HIFU Interventions. IEEE Transactions on Medical Imaging, 2012, 31, 533-542.	8.9	40
100	PLANET: An ellipse fitting approach for simultaneous T₁ and T₂ mapping using phaseâ€cycled balanced steadyâ€state free precession. Magnetic Resonance in Medicine, 2018, 79, 711-722.	3.0	40
101	Spatio-Temporal Control of Gene Expression and Cancer Treatment Using Magnetic Resonance Imagingâ€“Guided Focused Ultrasound. Clinical Cancer Research, 2007, 13, 3482-3489.	7.0	39
102	Simultaneous T₁ measurements and proton resonance frequency shift based thermometry using variable flip angles. Magnetic Resonance in Medicine, 2012, 67, 457-463.	3.0	39
103	Increase of intracellular cisplatin levels and radiosensitization by ultrasound in combination with microbubbles. Journal of Controlled Release, 2016, 238, 157-165.	9.9	38
104	MRI-Guided HIFU Methods for the Ablation of Liver and Renal Cancers. Advances in Experimental Medicine and Biology, 2016, 880, 43-63.	1.6	38
105	Ultrasound-induced cell permeabilisation and hyperthermia: Strategies for local delivery of compounds with intracellular mode of action. International Journal of Hyperthermia, 2012, 28, 311-319.	2.5	37
106	In situ changes in purine nucleotide and n-acetyl concentrations upon inducing global ischemia in cat brain. Magnetic Resonance in Medicine, 1993, 29, 381-385.	3.0	36
107	Functional brain MR imaging based on bolus tracking with a fast T2â^—-sensitized gradient-echo method. Magnetic Resonance Imaging, 1994, 12, 379-385.	1.8	36
108	64-element intraluminal ultrasound cylindrical phased array for transesophageal thermal ablation under fast MR temperature mapping: An ex vivo study. Medical Physics, 2006, 33, 2926-2934.	3.0	36

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109	The PRESTO technique for fMRI. NeuroImage, 2012, 62, 676-681.	4.2	36
110	Automatic control of hyperthermic therapy based on real-time Fourier analysis of MR temperature maps. Magnetic Resonance in Medicine, 2002, 47, 1065-1072.	3.0	35
111	Single-shot localized echo-planar imaging (STEAM-EPI) at 4.7 tesla. Magnetic Resonance in Medicine, 1990, 14, 401-408.	3.0	34
112	Recruitment of endocytosis in sonopermeabilization-mediated drug delivery: a real-time study. Physical Biology, 2015, 12, 046010.	1.8	34
113	A Direct PCA-Based Approach for Real-Time Description of Physiological Organ Deformations. IEEE Transactions on Medical Imaging, 2015, 34, 974-982.	8.9	34
114	A framework for the correction of slow physiological drifts during MRâ€guided HIFU therapies: Proof of concept. Medical Physics, 2015, 42, 4137-4148.	3.0	33
115	Homonuclear J refocusing in echo spectroscopy. Journal of Magnetic Resonance, 1990, 89, 28-40.	0.5	32
116	Measurement of brain activity with bolus administration of contrast agent and gradient-echo MR imaging.. Radiology, 1993, 186, 353-356.	7.3	32
117	High intensity focused ultrasound with large aperture transducers: A MRI based focal point correction for tissue heterogeneity. Medical Physics, 2012, 39, 1936-1945.	3.0	32
118	In vivo characterization of tissue thermal properties of the kidney during local hyperthermia induced by MRâ€guided highâ€intensity focused ultrasound. NMR in Biomedicine, 2011, 24, 799-806.	2.8	31
119	Feasibility of fast MRâ€thermometry during cardiac radiofrequency ablation. NMR in Biomedicine, 2012, 25, 556-562.	2.8	31
120	A Clinically Feasible Treatment Protocol for Magnetic Resonance-Guided High-Intensity Focused Ultrasound Ablation in the Liver. Investigative Radiology, 2015, 50, 24-31.	6.2	31
121	Incorporation of Lactate Measurement in Multi-Spin-Echo Proton Spectroscopic Imaging. Magnetic Resonance in Medicine, 1995, 33, 101-107.	3.0	30
122	Gene expression and gene therapy imaging. European Radiology, 2007, 17, 305-319.	4.5	30
123	Evolution of the Ablation Region After Magnetic Resonanceâ€“Guided High-Intensity Focused Ultrasound Ablation in a Vx2 Tumor Model. Investigative Radiology, 2013, 48, 381-386.	6.2	30
124	Spatial heterogeneity of nanomedicine investigated by multiscale imaging of the drug, the nanoparticle and the tumour environment. Theranostics, 2020, 10, 1884-1909.	10.0	30
125	Proton spectroscopic imaging of human brain. Journal of Magnetic Resonance, 1992, 98, 556-575.	0.5	29
126	Rapid Three-dimensional MR Imaging Method for Tracking a Bolus of Contrast Agent through the Brain. Radiology, 2000, 216, 603-608.	7.3	29

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127	MRI contrast variation of thermosensitive magnetoliposomes triggered by focused ultrasound: a tool for imageâ€guided local drug delivery. Contrast Media and Molecular Imaging, 2013, 8, 185-192.	0.8	29
128	Microbubbles-Assisted Ultrasound Triggers the Release of Extracellular Vesicles. International Journal of Molecular Sciences, 2017, 18, 1610.	4.1	29
129	1H Nuclear-Magnetic-Resonance Studies of the Conformation of Cardiotoxin VII2 from Naja mossambica mossambica. FEBS Journal, 1981, 120, 467-475.	0.2	28
130	A PRESTO-SENSE sequence with alternating partial-Fourier encoding for rapid susceptibility-weighted 3D MRI time series. Magnetic Resonance in Medicine, 2003, 50, 830-838.	3.0	28
131	Quantitative magnetic resonance temperature mapping for real-time monitoring of radiofrequency ablation of the liver: an ex vivo study. European Radiology, 2006, 16, 2265-2274.	4.5	28
132	In vivo temperature controlled ultrasound-mediated intracellular delivery of cell-impermeable compounds. Journal of Controlled Release, 2012, 161, 90-97.	9.9	28
133	Quality of MR thermometry during palliative MR-guided high-intensity focused ultrasound (MR-HIFU) treatment of bone metastases. Journal of Therapeutic Ultrasound, 2015, 3, 5.	2.2	28
134	Tumor Drug Distribution after Local Drug Delivery by Hyperthermia, In Vivo. Cancers, 2019, 11, 1512.	3.7	28
135	Complete water suppression for solutions of large molecules based on diffusional differences between solute and solvent (DRYCLEAN). Journal of Magnetic Resonance, 1990, 87, 18-25.	0.5	27
136	Online realâ€time reconstruction of adaptive TSENSE with commodity CPU/GPU hardware. Magnetic Resonance in Medicine, 2009, 62, 1658-1664.	3.0	27
137	Rapid motion correction in MRâ€guided highâ€intensity focused ultrasound heating using realâ€time ultrasound echo information. NMR in Biomedicine, 2010, 23, 1103-1108.	2.8	27
138	NMR studies on p-hydroxybenzoate hydroxylase from Pseudomonas fluorescens and salicylate hydroxylase from Pseudomonas putida. FEBS Journal, 1991, 200, 731-738.	0.2	26
139	Quantitative cerebral perfusion using the PRESTO acquisition scheme. Journal of Magnetic Resonance Imaging, 2004, 20, 930-940.	3.4	26
140	Bubble-Assisted Ultrasound: Application in Immunotherapy and Vaccination. Advances in Experimental Medicine and Biology, 2016, 880, 243-261.	1.6	26
141	New Developments in Imaging for Sentinel Lymph Node Biopsy in Early-Stage Oral Cavity Squamous Cell Carcinoma. Cancers, 2020, 12, 3055.	3.7	26
142	3D Bolus Tracking with Frequency-Shifted BURST MRI. Journal of Computer Assisted Tomography, 1994, 18, 680-687.	0.9	25
143	Diffusion Spectroscopy in Living Systems. , 1994, , 185-198.		25
144	Acute renal failure in hemorrhagic hypotension: Cellular energetics and renal function. Kidney International, 1986, 30, 355-360.	5.2	24

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145	Influence of fMRI data sampling on the temporal characterization of the hemodynamic response. NeuroImage, 2003, 19, 1820-1828.	4.2	24
146	Intraluminal ultrasound applicator compatible with magnetic resonance imaging â€œreal-timeâ€• temperature mapping for the treatment of oesophageal tumours: Anex vivostudy. Medical Physics, 2004, 31, 236-244.	3.0	24
147	Influence of water and fat heterogeneity on fatâ€referenced MR thermometry. Magnetic Resonance in Medicine, 2016, 75, 1187-1197.	3.0	24
148	Dynamic Enhanced Magnetic Resonance Imaging of Testicular Perfusion in the Rat. Journal of Urology, 1993, 149, 1195-1197.	0.4	23
149	Proton magnetic resonance spectroscopy of small regions (1 mL) localized inside superficial human tumors. A clinical feasibility study. NMR in Biomedicine, 1990, 3, 227-232.	2.8	22
150	Fast volume scanning with frequency-shifted burst MRI. Magnetic Resonance in Medicine, 1994, 32, 429-432.	3.0	22
151	Adipose Tissue Abnormalities in Cystic Fibrosis: Noninvasive Determination of Mono- and Polyunsaturated Fatty Acids by Carbon-13 Topical Magnetic Resonance Spectroscopy. Pediatric Research, 1988, 24, 243-246.	2.3	21
152	Realâ€time geometric distortion correction for interventional imaging with echoâ€planar imaging (EPI). Magnetic Resonance in Medicine, 2009, 61, 994-1000.	3.0	21
153	Extended Kalman Filtering for Continuous Volumetric MR-Temperature Imaging. IEEE Transactions on Medical Imaging, 2013, 32, 711-718.	8.9	21
154	Combination of Cell Delivery and Thermoinducible Transcription for in Vivo Spatiotemporal Control of Gene Expression: A Feasibility Study. Radiology, 2011, 258, 496-504.	7.3	20
155	Real-Time Assessment of Ultrasound-Mediated Drug Delivery Using Fibered Confocal Fluorescence Microscopy. Molecular Imaging and Biology, 2013, 15, 3-11.	2.6	20
156	The use of two-dimensional nuclear-magnetic-resonance spectroscopy and two-dimensional difference spectra in the elucidation of the active center of Megasphaera elsdenii flavodoxin. FEBS Journal, 1984, 141, 323-330.	0.2	19
157	A Single-Shot Diffusion Experiment. Journal of Magnetic Resonance Series A, 1993, 103, 105-108.	1.6	19
158	Renal hemodynamics and oxygenation in transient renal artery occluded rats evaluated with iron-oxide particles and oxygenation-sensitive imaging. Zeitschrift Fur Medizinische Physik, 2010, 20, 134-142.	1.5	19
159	23Na rotating frame imaging in the perfused rabbit heart using separate transmitter and receiver coils. Magnetic Resonance in Medicine, 1987, 5, 296-301.	3.0	18
160	Magnetization Transfer Imaging of Rat Brain under Non-steady-state Conditions. Contrast Prediction Using a Binary Spinâ€“Bath Model and a Super-Lorentzian Lineshape. Journal of Magnetic Resonance, 1998, 130, 321-328.	2.1	18
161	Influence of Ultrasound Induced Cavitation on Magnetic Resonance Imaging Contrast in the Rat Liver in the Presence of Macromolecular Contrast Agent. Investigative Radiology, 2010, 45, 282-287.	6.2	18
162	Automatic Nonrigid Calibration of Image Registration for Real Time MR-Guided HIFU Ablations of Mobile Organs. IEEE Transactions on Medical Imaging, 2011, 30, 1737-1745.	8.9	18

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163	An echo-shifted gradient-echo MRI method for efficient diffusion weighting. Magnetic Resonance in Medicine, 1999, 41, 1000-1008.	3.0	17
164	A fluorescent chromophore TOTOâ€3 as a â€˜smart probeâ€™ for the assessment of ultrasoundâ€mediated local drug delivery in vivo. Contrast Media and Molecular Imaging, 2011, 6, 267-274.	0.8	17
165	19F Magnetic Resonance Imaging of Cerebral Blood Flow with 0.4-cc Resolution. Journal of Cerebral Blood Flow and Metabolism, 1994, 14, 656-663.	4.3	16
166	Intercostal high intensity focused ultrasound for liver ablation: The influence of beam shaping on sonication efficacy and nearâ€field risks. Medical Physics, 2015, 42, 4685-4697.	3.0	16
167	A photo-CIDNP study of the active sites of Megasphaera elsdenii and Clostridium MP flavodoxins. FEBS Letters, 1982, 149, 141-146.	2.8	15
168	Publicâ€“private partnerships in translational medicine: Concepts and practical examples. Journal of Controlled Release, 2012, 161, 416-421.	9.9	15
169	On the accuracy and precision of PLANET for multiparametric MRI using phaseâ€cycled bSSFP imaging. Magnetic Resonance in Medicine, 2019, 81, 1534-1552.	3.0	15
170	On the Mobility of Riboflavin 5'-Phosphate in Megasphaera elsdenii Flavodoxin as Studied by 13C-Nuclear-Magnetic-Resonance Relaxation. FEBS Journal, 1983, 133, 463-470.	0.2	14
171	Robust Real-Time-Constrained Estimation of Respiratory Motion for Interventional MRI on Mobile Organs. IEEE Transactions on Information Technology in Biomedicine, 2012, 16, 365-374.	3.2	14
172	MRI monitoring of nanocarrier accumulation and release using Gadoliniumâ€SPIO coâ€labelled thermosensitive liposomes. Contrast Media and Molecular Imaging, 2016, 11, 184-194.	0.8	14
173	On the intermolecular electron transfer between different redox states of flavodoxin from Megasphaera elsdenii. A 500-MHz 1H NMR study. FEBS Journal, 1984, 140, 303-309.	0.2	13
174	Timing of the Onset of Changes in Renal Energetics in Relation to Blood Pressure and Glomerular Filtration in Haemorrhagic Hypotension in the Rat. Nephron, 1989, 51, 225-232.	1.8	13
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