

Mark Bydder

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

53
papers

3,469
citations

25
h-index

53
g-index

53
ext. papers

3,927
ext. citations

4.8
avg, IF

4.86
L-index

#	Paper	IF	Citations
53	Magnetic resonance: an introduction to ultrashort TE (UTE) imaging. <i>Journal of Computer Assisted Tomography</i> , 2003 , 27, 825-46	2.2	509
52	In vivo characterization of the liver fat ¹ H MR spectrum. <i>NMR in Biomedicine</i> , 2011 , 24, 784-90	4.4	376
51	Relaxation effects in the quantification of fat using gradient echo imaging. <i>Magnetic Resonance Imaging</i> , 2008 , 26, 347-59	3.3	316
50	Nonalcoholic fatty liver disease: MR imaging of liver proton density fat fraction to assess hepatic steatosis. <i>Radiology</i> , 2013 , 267, 422-31	20.5	306
49	Nonalcoholic fatty liver disease: diagnostic and fat-grading accuracy of low-flip-angle multiecho gradient-recalled-echo MR imaging at 1.5 T. <i>Radiology</i> , 2009 , 251, 67-76	20.5	258
48	Estimation of hepatic proton-density fat fraction by using MR imaging at 3.0 T. <i>Radiology</i> , 2011 , 258, 749-59	20.5	215
47	Fatty liver disease: MR imaging techniques for the detection and quantification of liver steatosis. <i>Radiographics</i> , 2009 , 29, 231-60	5.4	202
46	Reproducibility of MRI-determined proton density fat fraction across two different MR scanner platforms. <i>Journal of Magnetic Resonance Imaging</i> , 2011 , 34, 928-34	5.6	111
45	Short T2 contrast with three-dimensional ultrashort echo time imaging. <i>Magnetic Resonance Imaging</i> , 2011 , 29, 470-82	3.3	100
44	The reactivity of chlorine atoms in aqueous solution Part II.The equilibrium $SO_4^{2-} + Cl^- \rightleftharpoons ClO_3^- + SO_4^{2-}$. <i>Physical Chemistry Chemical Physics</i> , 1999 , 1, 269-273	3.6	95
43	Reactivity of chlorine atoms in aqueous solution Part 1The equilibrium $ClO_2 + Cl^- \rightleftharpoons ClO_2^- + Cl^-$. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1998 , 94, 653-657		94
42	MR properties of brown and white adipose tissues. <i>Journal of Magnetic Resonance Imaging</i> , 2011 , 34, 468-73	5.6	88
41	Optimal phased-array combination for spectroscopy. <i>Magnetic Resonance Imaging</i> , 2008 , 26, 847-50	3.3	71
40	Partial fourier partially parallel imaging. <i>Magnetic Resonance in Medicine</i> , 2005 , 53, 1393-401	4.4	64
39	Two-dimensional ultrashort echo time imaging using a spiral trajectory. <i>Magnetic Resonance Imaging</i> , 2008 , 26, 304-12	3.3	53
38	Noise reduction in multiple-echo data sets using singular value decomposition. <i>Magnetic Resonance Imaging</i> , 2006 , 24, 849-56	3.3	51
37	Mapping the double bonds in triglycerides. <i>Magnetic Resonance Imaging</i> , 2011 , 29, 1041-6	3.3	49

36	Associations between histologic features of nonalcoholic fatty liver disease (NAFLD) and quantitative diffusion-weighted MRI measurements in adults. <i>Journal of Magnetic Resonance Imaging</i> , 2015 , 41, 1629-38	5.6	48
35	Assessment of liver fat quantification in the presence of iron. <i>Magnetic Resonance Imaging</i> , 2010 , 28, 767-76	3.3	41
34	MR image reconstruction using deep learning: evaluation of network structure and loss functions. <i>Quantitative Imaging in Medicine and Surgery</i> , 2019 , 9, 1516-1527	3.6	35
33	Cross-sectional investigation of correlation between hepatic steatosis and IVIM perfusion on MR imaging. <i>Magnetic Resonance Imaging</i> , 2012 , 30, 572-8	3.3	34
32	Optimization of RF excitation to maximize signal and T2 contrast of tissues with rapid transverse relaxation. <i>Magnetic Resonance in Medicine</i> , 2010 , 64, 481-90	4.4	32
31	Constraining the initial phase in water-fat separation. <i>Magnetic Resonance Imaging</i> , 2011 , 29, 216-21	3.3	27
30	SNR and functional sensitivity of BOLD and perfusion-based fMRI using arterial spin labeling with spiral SENSE at 3 T. <i>Magnetic Resonance Imaging</i> , 2008 , 26, 513-22	3.3	26
29	Distribution of brain sodium long and short relaxation times and concentrations: a multi-echo ultra-high field Na MRI study. <i>Scientific Reports</i> , 2018 , 8, 4357	4.9	25
28	Long-term follow-up of MRI changes in thigh muscles of patients with Facioscapulohumeral dystrophy: A quantitative study. <i>PLoS ONE</i> , 2017 , 12, e0183825	3.7	24
27	Cardiac motion in diffusion-weighted MRI of the liver: artifact and a method of correction. <i>Journal of Magnetic Resonance Imaging</i> , 2012 , 35, 318-27	5.6	24
26	Proton density water fraction as a biomarker of bone marrow cellularity: validation in ex vivo spine specimens. <i>Magnetic Resonance Imaging</i> , 2014 , 32, 1097-101	3.3	20
25	Optimal phase difference reconstruction: comparison of two methods. <i>Magnetic Resonance Imaging</i> , 2008 , 26, 142-5	3.3	20
24	Effects of intravenous gadolinium administration and flip angle on the assessment of liver fat signal fraction with opposed-phase and in-phase imaging. <i>Journal of Magnetic Resonance Imaging</i> , 2008 , 28, 246-51	5.6	19
23	Robustness of fat quantification using chemical shift imaging. <i>Magnetic Resonance Imaging</i> , 2012 , 30, 151-7	3.3	18
22	Evaluation of MRI fat fraction in the liver and spine pre and post SPIO infusion. <i>Magnetic Resonance Imaging</i> , 2013 , 31, 1012-6	3.3	13
21	Evaluation of optimal density weighting for regridding. <i>Magnetic Resonance Imaging</i> , 2007 , 25, 695-702	3.3	13
20	Sources of systematic error in proton density fat fraction (PDFF) quantification in the liver evaluated from magnitude images with different numbers of echoes. <i>NMR in Biomedicine</i> , 2018 , 31, e3843	4.4	13
19	Error model for reduction of cardiac and respiratory motion effects in quantitative liver DW-MRI. <i>Magnetic Resonance in Medicine</i> , 2013 , 70, 1460-9	4.4	12

18	Solution of a Complex Least Squares Problem with Constrained Phase. <i>Linear Algebra and Its Applications</i> , 2010 , 433, 1719-1721	0.9	10
17	A nonlinear regularization strategy for GRAPPA calibration. <i>Magnetic Resonance Imaging</i> , 2009 , 27, 137-413	4.3	9
16	Optimization of sensitivity encoding with arbitrary k-space trajectories. <i>Magnetic Resonance Imaging</i> , 2007 , 25, 1123-9	3.3	9
15	Constraints in estimating the proton density fat fraction. <i>Magnetic Resonance Imaging</i> , 2020 , 66, 1-8	3.3	7
14	Retrospective respiratory motion correction in cardiac cine MRI reconstruction using adversarial autoencoder and unsupervised learning. <i>NMR in Biomedicine</i> , 2021 , 34, e4433	4.4	6
13	Radiofrequency pulses for simultaneous short T2 excitation and long T2 suppression. <i>Magnetic Resonance in Medicine</i> , 2011 , 65, 531-7	4.4	5
12	Dynamic Na MRI - A non-invasive window on neuroglial-vascular mechanisms underlying brain function. <i>NeuroImage</i> , 2019 , 184, 771-780	7.9	4
11	Temporally aware volumetric generative adversarial network-based MR image reconstruction with simultaneous respiratory motion compensation: Initial feasibility in 3D dynamic cine cardiac MRI. <i>Magnetic Resonance in Medicine</i> , 2021 , 86, 2666-2683	4.4	3
10	Assessment of a high-SNR chemical-shift-encoded MRI with complex reconstruction for proton density fat fraction (PDFF) estimation overall and in the low-fat range. <i>Journal of Magnetic Resonance Imaging</i> , 2019 , 49, 229-238	5.6	3
9	Temperature-corrected proton density fat fraction estimation using chemical shift-encoded MRI in phantoms. <i>Magnetic Resonance in Medicine</i> , 2021 , 86, 69-81	4.4	3
8	Trimmed autocalibrating k-space estimation based on structured matrix completion. <i>Magnetic Resonance Imaging</i> , 2017 , 43, 88-94	3.3	2
7	Minimizing echo and repetition times in magnetic resonance imaging using a double half-echo k-space acquisition and low-rank reconstruction. <i>NMR in Biomedicine</i> , 2021 , 34, e4458	4.4	2
6	MRI chemical shift artifact produced by center-out radial sampling of k-space: a potential pitfall in clinical diagnosis. <i>Quantitative Imaging in Medicine and Surgery</i> , 2021 , 11, 3677-3683	3.6	2
5	Self-calibrated multiple-echo acquisition with radial trajectories using the conjugate gradient method (SMART-CG). <i>Journal of Magnetic Resonance Imaging</i> , 2011 , 33, 980-7	5.6	1
4	Magnetic Resonance Imaging of Short T2 Relaxation Components in Tissue Using Ultrashort Echo Time (UTE) Pulse Sequences. <i>Current Medical Imaging</i> , 2006 , 2, 79-90	1.2	1
3	Sodium MR Neuroimaging. <i>American Journal of Neuroradiology</i> , 2021 , 42, 1920-1926	4.4	0
2	Triglyceride Saturation in Patients at Risk of NASH and NAFLD: A Cross-Sectional Study. <i>Biophysica</i> , 2022 , 2, 8-15		0
1	A study of 3D radial density adapted trajectories for sodium imaging. <i>Magnetic Resonance Imaging</i> , 2021 , 83, 89-95	3.3	

