

# Mark Bydder

## List of Publications by Year in Descending Order

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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	Triglyceride Saturation in Patients at Risk of NASH and NAFLD: A Cross-Sectional Study. <i>Biophysica</i> , <b>2022</b> , 2, 8-15		0
52	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> , <b>2021</b> , 86, 2666-2683	4.4	3
51	Retrospective respiratory motion correction in cardiac cine MRI reconstruction using adversarial autoencoder and unsupervised learning. <i>NMR in Biomedicine</i> , <b>2021</b> , 34, e4433	4.4	6
50	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> , <b>2021</b> , 34, e4458	4.4	2
49	Temperature-corrected proton density fat fraction estimation using chemical shift-encoded MRI in phantoms. <i>Magnetic Resonance in Medicine</i> , <b>2021</b> , 86, 69-81	4.4	3
48	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> , <b>2021</b> , 11, 3677-3683	3.6	2
47	Sodium MR Neuroimaging. <i>American Journal of Neuroradiology</i> , <b>2021</b> , 42, 1920-1926	4.4	0
46	A study of 3D radial density adapted trajectories for sodium imaging. <i>Magnetic Resonance Imaging</i> , <b>2021</b> , 83, 89-95	3.3	
45	Constraints in estimating the proton density fat fraction. <i>Magnetic Resonance Imaging</i> , <b>2020</b> , 66, 1-8	3.3	7
44	MR image reconstruction using deep learning: evaluation of network structure and loss functions. <i>Quantitative Imaging in Medicine and Surgery</i> , <b>2019</b> , 9, 1516-1527	3.6	35
43	Dynamic Na MRI - A non-invasive window on neuroglial-vascular mechanisms underlying brain function. <i>NeuroImage</i> , <b>2019</b> , 184, 771-780	7.9	4
42	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> , <b>2019</b> , 49, 229-238	5.6	3
41	Distribution of brain sodium long and short relaxation times and concentrations: a multi-echo ultra-high field Na MRI study. <i>Scientific Reports</i> , <b>2018</b> , 8, 4357	4.9	25
40	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> , <b>2018</b> , 31, e3843	4.4	13
39	Long-term follow-up of MRI changes in thigh muscles of patients with Facioscapulohumeral dystrophy: A quantitative study. <i>PLoS ONE</i> , <b>2017</b> , 12, e0183825	3.7	24
38	Trimmed autocalibrating k-space estimation based on structured matrix completion. <i>Magnetic Resonance Imaging</i> , <b>2017</b> , 43, 88-94	3.3	2
37	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> , <b>2015</b> , 41, 1629-38	5.6	48

36	Proton density water fraction as a biomarker of bone marrow cellularity: validation in ex vivo spine specimens. <i>Magnetic Resonance Imaging</i> , <b>2014</b> , 32, 1097-101	3.3	20
35	Evaluation of MRI fat fraction in the liver and spine pre and post SPIO infusion. <i>Magnetic Resonance Imaging</i> , <b>2013</b> , 31, 1012-6	3.3	13
34	Nonalcoholic fatty liver disease: MR imaging of liver proton density fat fraction to assess hepatic steatosis. <i>Radiology</i> , <b>2013</b> , 267, 422-31	20.5	306
33	Error model for reduction of cardiac and respiratory motion effects in quantitative liver DW-MRI. <i>Magnetic Resonance in Medicine</i> , <b>2013</b> , 70, 1460-9	4.4	12
32	Robustness of fat quantification using chemical shift imaging. <i>Magnetic Resonance Imaging</i> , <b>2012</b> , 30, 151-7	3.3	18
31	Cross-sectional investigation of correlation between hepatic steatosis and IVIM perfusion on MR imaging. <i>Magnetic Resonance Imaging</i> , <b>2012</b> , 30, 572-8	3.3	34
30	Cardiac motion in diffusion-weighted MRI of the liver: artifact and a method of correction. <i>Journal of Magnetic Resonance Imaging</i> , <b>2012</b> , 35, 318-27	5.6	24
29	Mapping the double bonds in triglycerides. <i>Magnetic Resonance Imaging</i> , <b>2011</b> , 29, 1041-6	3.3	49
28	Short T2 contrast with three-dimensional ultrashort echo time imaging. <i>Magnetic Resonance Imaging</i> , <b>2011</b> , 29, 470-82	3.3	100
27	Self-calibrated multiple-echo acquisition with radial trajectories using the conjugate gradient method (SMART-CG). <i>Journal of Magnetic Resonance Imaging</i> , <b>2011</b> , 33, 980-7	5.6	1
26	MR properties of brown and white adipose tissues. <i>Journal of Magnetic Resonance Imaging</i> , <b>2011</b> , 34, 468-73	5.6	88
25	Reproducibility of MRI-determined proton density fat fraction across two different MR scanner platforms. <i>Journal of Magnetic Resonance Imaging</i> , <b>2011</b> , 34, 928-34	5.6	111
24	Radiofrequency pulses for simultaneous short T2 excitation and long T2 suppression. <i>Magnetic Resonance in Medicine</i> , <b>2011</b> , 65, 531-7	4.4	5
23	In vivo characterization of the liver fat $^1\text{H}$ MR spectrum. <i>NMR in Biomedicine</i> , <b>2011</b> , 24, 784-90	4.4	376
22	Constraining the initial phase in water-fat separation. <i>Magnetic Resonance Imaging</i> , <b>2011</b> , 29, 216-21	3.3	27
21	Estimation of hepatic proton-density fat fraction by using MR imaging at 3.0 T. <i>Radiology</i> , <b>2011</b> , 258, 749-59	20.5	215
20	Assessment of liver fat quantification in the presence of iron. <i>Magnetic Resonance Imaging</i> , <b>2010</b> , 28, 767-76	3.3	41
19	Optimization of RF excitation to maximize signal and T2 contrast of tissues with rapid transverse relaxation. <i>Magnetic Resonance in Medicine</i> , <b>2010</b> , 64, 481-90	4.4	32

18	Solution of a Complex Least Squares Problem with Constrained Phase. <i>Linear Algebra and Its Applications</i> , <b>2010</b> , 433, 1719-1721	0.9	10
17	A nonlinear regularization strategy for GRAPPA calibration. <i>Magnetic Resonance Imaging</i> , <b>2009</b> , 27, 137-413	3.3	9
16	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> , <b>2009</b> , 251, 67-76	20.5	258
15	Fatty liver disease: MR imaging techniques for the detection and quantification of liver steatosis. <i>Radiographics</i> , <b>2009</b> , 29, 231-60	5.4	202
14	Optimal phase difference reconstruction: comparison of two methods. <i>Magnetic Resonance Imaging</i> , <b>2008</b> , 26, 142-5	3.3	20
13	Relaxation effects in the quantification of fat using gradient echo imaging. <i>Magnetic Resonance Imaging</i> , <b>2008</b> , 26, 347-59	3.3	316
12	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> , <b>2008</b> , 28, 246-51	5.6	19
11	Two-dimensional ultrashort echo time imaging using a spiral trajectory. <i>Magnetic Resonance Imaging</i> , <b>2008</b> , 26, 304-12	3.3	53
10	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> , <b>2008</b> , 26, 513-22	3.3	26
9	Optimal phased-array combination for spectroscopy. <i>Magnetic Resonance Imaging</i> , <b>2008</b> , 26, 847-50	3.3	71
8	Evaluation of optimal density weighting for regridding. <i>Magnetic Resonance Imaging</i> , <b>2007</b> , 25, 695-702	3.3	13
7	Optimization of sensitivity encoding with arbitrary k-space trajectories. <i>Magnetic Resonance Imaging</i> , <b>2007</b> , 25, 1123-9	3.3	9
6	Magnetic Resonance Imaging of Short T2 Relaxation Components in Tissue Using Ultrashort Echo Time (UTE) Pulse Sequences. <i>Current Medical Imaging</i> , <b>2006</b> , 2, 79-90	1.2	1
5	Noise reduction in multiple-echo data sets using singular value decomposition. <i>Magnetic Resonance Imaging</i> , <b>2006</b> , 24, 849-56	3.3	51
4	Partial fourier partially parallel imaging. <i>Magnetic Resonance in Medicine</i> , <b>2005</b> , 53, 1393-401	4.4	64
3	Magnetic resonance: an introduction to ultrashort TE (UTE) imaging. <i>Journal of Computer Assisted Tomography</i> , <b>2003</b> , 27, 825-46	2.2	509
2	The reactivity of chlorine atoms in aqueous solution Part II.The equilibrium $\text{SO}_4^{2-} + \text{Cl}^- \rightleftharpoons \text{ClO}_2^- + \text{SO}_4^{2-}$ . <i>Physical Chemistry Chemical Physics</i> , <b>1999</b> , 1, 269-273	3.6	95
1	Reactivity of chlorine atoms in aqueous solution Part 1The equilibrium $\text{Cl}_2 + \text{H}_2\text{O} \rightleftharpoons \text{Cl}^- + \text{Cl}_2^-$ . <i>Journal of the Chemical Society, Faraday Transactions</i> , <b>1998</b> , 94, 653-657		94

