

# Graeme M Bydder

## List of Publications by Citations

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33  
papers

1,098  
citations

13  
h-index

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g-index

36  
ext. papers

1,280  
ext. citations

5.8  
avg, IF

4.35  
L-index

#	Paper	IF	Citations
33	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
32	Qualitative and quantitative ultrashort-TE MRI of cortical bone. <i>NMR in Biomedicine</i> , <b>2013</b> , 26, 489-506	4.4	96
31	UTE imaging with simultaneous water and fat signal suppression using a time-efficient multispoke inversion recovery pulse sequence. <i>Magnetic Resonance in Medicine</i> , <b>2016</b> , 76, 577-82	4.4	78
30	Ultrashort echo time (UTE) magnetic resonance imaging of the short T2 components in white matter of the brain using a clinical 3T scanner. <i>NeuroImage</i> , <b>2014</b> , 87, 32-41	7.9	65
29	Accurate T mapping of short T tissues using a three-dimensional ultrashort echo time cones actual flip angle imaging-variable repetition time (3D UTE-Cones AFI-VTR) method. <i>Magnetic Resonance in Medicine</i> , <b>2018</b> , 80, 598-608	4.4	48
28	Magnetic resonance imaging of myelin using ultrashort Echo time (UTE) pulse sequences: Phantom, specimen, volunteer and multiple sclerosis patient studies. <i>NeuroImage</i> , <b>2016</b> , 136, 37-44	7.9	43
27	Evaluation of bound and pore water in cortical bone using ultrashort-TE MRI. <i>NMR in Biomedicine</i> , <b>2015</b> , 28, 1754-1762	4.4	31
26	Effects of inversion time on inversion recovery prepared ultrashort echo time (IR-UTE) imaging of bound and pore water in cortical bone. <i>NMR in Biomedicine</i> , <b>2015</b> , 28, 70-8	4.4	28
25	Measurement of T1 of the ultrashort T2* components in white matter of the brain at 3T. <i>PLoS ONE</i> , <b>2014</b> , 9, e103296	3.7	27
24	Yet more evidence that myelin protons can be directly imaged with UTE sequences on a clinical 3T scanner: Bicomponent T2* analysis of native and deuterated ovine brain specimens. <i>Magnetic Resonance in Medicine</i> , <b>2018</b> , 80, 538-547	4.4	17
23	Can ultrashort-TE (UTE) MRI sequences on a 3-T clinical scanner detect signal directly from collagen protons: freeze-dry and D2 O exchange studies of cortical bone and Achilles tendon specimens. <i>NMR in Biomedicine</i> , <b>2016</b> , 29, 912-7	4.4	16
22	Magnetic resonance imaging of short T2 relaxation components in the musculoskeletal system. <i>Skeletal Radiology</i> , <b>2009</b> , 38, 201-5	2.7	16
21	Whole-Brain Myelin Imaging Using 3D Double-Echo Sliding Inversion Recovery Ultrashort Echo Time (DESIRE UTE) MRI. <i>Radiology</i> , <b>2020</b> , 294, 362-374	20.5	16
20	Inversion recovery ultrashort echo time imaging of ultrashort T tissue components in ovine brain at 3T: a sequential D O exchange study. <i>NMR in Biomedicine</i> , <b>2017</b> , 30, e3767	4.4	13
19	Evaluation of normal cadaveric Achilles tendon and enthesis with ultrashort echo time (UTE) magnetic resonance imaging and indentation testing. <i>NMR in Biomedicine</i> , <b>2019</b> , 32, e4034	4.4	12
18	Imaging of the region of the osteochondral junction (OCJ) using a 3D adiabatic inversion recovery prepared ultrashort echo time cones (3D IR-UTE-cones) sequence at 3T. <i>NMR in Biomedicine</i> , <b>2019</b> , 32, e4080	4.4	11
17	Direct magnitude and phase imaging of myelin using ultrashort echo time (UTE) pulse sequences: A feasibility study. <i>Magnetic Resonance Imaging</i> , <b>2017</b> , 39, 194-199	3.3	8

16	Inversion recovery ultrashort echo time magnetic resonance imaging: A method for simultaneous direct detection of myelin and high signal demonstration of iron deposition in the brain - A feasibility study. <i>Magnetic Resonance Imaging</i> , <b>2017</b> , 38, 87-94	3.3	8
15	Thickness of the Meniscal Lamellar Layer: Correlation with Indentation Stiffness and Comparison of Normal and Abnormally Thick Layers by Using Multiparametric Ultrashort Echo Time MR Imaging. <i>Radiology</i> , <b>2016</b> , 280, 161-8	20.5	8
14	High-Resolution MRI of the First Metatarsophalangeal Joint: Gross Anatomy and Injury Characterization. <i>Radiographics</i> , <b>2020</b> , 40, 1107-1124	5.4	6
13	Pulse sequences as tissue property filters (TP-filters): a way of understanding the signal, contrast and weighting of magnetic resonance images. <i>Quantitative Imaging in Medicine and Surgery</i> , <b>2020</b> , 10, 1080-1120	3.6	5
12	Myelin Imaging in Human Brain Using a Short Repetition Time Adiabatic Inversion Recovery Prepared Ultrashort Echo Time (STAIR-UTE) MRI Sequence in Multiple Sclerosis. <i>Radiology</i> , <b>2020</b> , 297, 392-404	20.5	5
11	Effects of fat saturation on short T2 quantification. <i>Magnetic Resonance Imaging</i> , <b>2017</b> , 43, 6-9	3.3	4
10	Use of Multiplied, Added, Subtracted and/or FiTted Inversion Recovery (MASTIR) pulse sequences. <i>Quantitative Imaging in Medicine and Surgery</i> , <b>2020</b> , 10, 1334-1369	3.6	3
9	Evaluation of cortical bone perfusion using dynamic contrast enhanced ultrashort echo time imaging: a feasibility study. <i>Quantitative Imaging in Medicine and Surgery</i> , <b>2019</b> , 9, 1383-1393	3.6	3
8	T measurement of bound water in cortical bone using 3D adiabatic inversion recovery ultrashort echo time (3D IR-UTE) Cones imaging. <i>Magnetic Resonance in Medicine</i> , <b>2020</b> , 84, 634-645	4.4	3
7	New options for increasing the sensitivity, specificity and scope of synergistic contrast magnetic resonance imaging (scMRI) using Multiplied, Added, Subtracted and/or FiTted (MASTIR) pulse sequences. <i>Quantitative Imaging in Medicine and Surgery</i> , <b>2020</b> , 10, 2030-2065	3.6	2
6	Inversion Recovery Ultrashort TE MR Imaging of Myelin is Significantly Correlated with Disability in Patients with Multiple Sclerosis. <i>American Journal of Neuroradiology</i> , <b>2021</b> , 42, 868-874	4.4	2
5	Brain ultrashort T component imaging using a short TR adiabatic inversion recovery prepared dual-echo ultrashort TE sequence with complex echo subtraction (STAIR-dUTE-ES). <i>Journal of Magnetic Resonance</i> , <b>2021</b> , 323, 106898	3	2
4	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
3	Ultrashort TE Imaging: Phase and Frequency Mapping of Susceptibility Effects in Short T2 Tissues of the Musculoskeletal System 669-696		2
2	Comprehensive assessment of lumbar spine intervertebral discs using a 3D adiabatic T prepared ultrashort echo time (UTE-Adiab-T) pulse sequence.. <i>Quantitative Imaging in Medicine and Surgery</i> , <b>2022</b> , 12, 269-280	3.6	1
1	Fast T measurement of cortical bone using 3D UTE actual flip angle imaging and single-TR acquisition (3D UTE-AFI-STR). <i>Magnetic Resonance in Medicine</i> , <b>2021</b> , 85, 3290-3298	4.4	1