Ian C Atkinson

List of Publications by Year
in descending order

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19 papers	622 citations	840776 11 h-index	940533 16 g-index
20 all docs	20 docs citations	20 times ranked	635 citing authors

#	Article	IF	Citations
1	Motion reduction for quantitative brain sodium MR imaging with a navigated flexible twisted projection imaging sequence at 9.4â€ T. Journal of Magnetic Resonance, 2019, 307, 106582.	2.1	2
2	Residual Tumor Volume, Cell Volume Fraction, and Tumor Cell Kill During Fractionated Chemoradiation Therapy of Human Glioblastoma using Quantitative Sodium MR Imaging. Clinical Cancer Research, 2019, 25, 1226-1232.	7.0	26
3	SERIAL transmit â€“ parallel receive (STxPRx) MR imaging produces acceptable proton image uniformity without compromising field of view or SAR guidelines for human neuroimaging at 9.4 Tesla. Journal of Magnetic Resonance, 2018, 293, 145-153.	2.1	2
4	Quantitative sodium MRI of the human brain at 9.4â€‰T provides assessment of tissue sodium concentration and cell volume fraction during normal aging. NMR in Biomedicine, 2016, 29, 137-143.	2.8	49
5	Quantitative Metabolic Magnetic Resonance Imaging of Sodium, Oxygen, Phosphorus and Potassium in the Human Brain. , 2014, , 291-311.		2
6	Feasibility of 39-potassium MR imaging of a human brain at 9.4 Tesla. Magnetic Resonance in Medicine, 2014, 71, 1819-1825.	3.0	20
7	Sodium Magnetic Resonance Imaging in the Management of Human High-Grade Brain Tumors. , 2014, , 211-224.		0
8	PCr/ATP ratio mapping of the human head by simultaneously imaging of multiple spectral peaks with interleaved excitations and flexible twisted projection imaging readout trajectories at 9.4 T. Magnetic Resonance in Medicine, 2013, 69, 538-544.	3.0	29
9	Rapid computation of sodium bioscales using gpuâ€accelerated image reconstruction. International Journal of Imaging Systems and Technology, 2013, 23, 29-35.	4.1	1
10	Preserving the accuracy and resolution of the sodium bioscale from quantitative sodium MRI during intrasubject alignment across longitudinal studies. Magnetic Resonance in Medicine, 2012, 68, 751-761.	3.0	10
11	Impact of gradient timing error on the tissue sodium concentration bioscale measured using flexible twisted projection imaging. Journal of Magnetic Resonance, 2011, 213, 176-181.	2.1	10
12	Clinically constrained optimization of flexTPI acquisition parameters for the tissue sodium concentration bioscale. Magnetic Resonance in Medicine, 2011, 66, 1089-1099.	3.0	31
13	Metabolic Magnetic Resonance Imaging: A Case for Bioscales in Medicine. , 2011, , 911-928.		3
14	Vital signs and cognitive function are not affected by 23â€sodium and 17â€oxygen magnetic resonance imaging of the human brain at 9.4 T. Journal of Magnetic Resonance Imaging, 2010, 32, 82-87.	3.4	40
15	Quantitative sodium imaging with a flexible twisted projection pulse sequence. Magnetic Resonance in Medicine, 2010, 63, 1583-1593.	3.0	95
16	Feasibility of mapping the tissue mass corrected bioscale of cerebral metabolic rate of oxygen consumption using 17-oxygen and 23-sodium MR imaging in a human brain at 9.4T. NeuroImage, 2010, 51, 723-733.	4.2	99
17	Characterization and correction of system delays and eddy currents for MR imaging with ultrashort echoâ€time and timeâ€varying gradients. Magnetic Resonance in Medicine, 2009, 62, 532-537.	3.0	53
18	Quantitative Sodium MR Imaging and Sodium Bioscales for the Management of Brain Tumors. Neuroimaging Clinics of North America, 2009, 19, 615-624.	1.0	63

#	Article	IF	Citations
19	Safety of human MRI at static fields above the FDA 8T guideline: Sodium imaging at 9.4T does not affect vital signs or cognitive ability. Journal of Magnetic Resonance Imaging, 2007, 26, 1222-1227.	3.4	87