

# Tom Hilbert

## List of Publications by Year in descending order

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Version: 2024-02-01

39  
papers

602  
citations

686830

13  
h-index

676716

22  
g-index

39  
all docs

39  
docs citations

39  
times ranked

737  
citing authors

#	ARTICLE	IF	CITATIONS
1	<sc>Qâ€Dixon</sc> and <sc>GRAPPATINI T2</sc> Mapping Parameters: A Whole Spinal Assessment of the Relationship Between Osteoporosis and Intervertebral Disc Degeneration. Journal of Magnetic Resonance Imaging, 2022, 55, 1536-1546.	1.9	9
2	Value of <sc>T<sub>2</sub></sc> Mapping <sc>MRI</sc> for Prostate Cancer Detection and Classification. Journal of Magnetic Resonance Imaging, 2022, 56, 413-422.	1.9	8
3	Optimization of magnetization transfer contrast for EPI FLAIR brain imaging. Magnetic Resonance in Medicine, 2022, 87, 2380-2387.	1.9	4
4	Comparison of T2 Quantification Strategies in the Abdominal-Pelvic Region for Clinical Use. Investigative Radiology, 2022, Publish Ahead of Print, .	3.5	2
5	T2 mapping for the characterization of prostate lesions. World Journal of Urology, 2022, 40, 1455-1461.	1.2	4
6	Simultaneous 3D acquisition of<sup>1</sup>H MRF and<sup>23</sup>Na MRI. Magnetic Resonance in Medicine, 2022, 87, 2299-2312.	1.9	4
7	Periventricular gradient of T1 tissue alterations in multiple sclerosis. NeuroImage: Clinical, 2022, 34, 103009.	1.4	9
8	A Fetal Brain magnetic resonance Acquisition Numerical phantom (FaBiAN). Scientific Reports, 2022, 12, .	1.6	4
9	Evaluating reproducibility and subject-specificity of microstructure-informed connectivity. NeuroImage, 2022, 258, 119356.	2.1	4
10	Fast and highâ€resolution myelin water imaging: Accelerating multiâ€echo GRASE with CAIPIRINHA. Magnetic Resonance in Medicine, 2021, 85, 209-222.	1.9	16
11	Compressed sensing with signal averaging for improved sensitivity and motion artifact reduction in fluorineâ€19 MRI. NMR in Biomedicine, 2021, 34, e4418.	1.6	8
12	Comparison of 2D simultaneous multi-slice and 3D GRASE readout schemes for pseudo-continuous arterial spin labeling of cerebral perfusion at 3 T. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2021, 34, 437-450.	1.1	3
13	Clinical implementation of accelerated T2 mapping: Quantitative magnetic resonance imaging as a biomarker for annular tear and lumbar disc herniation. European Radiology, 2021, 31, 3590-3599.	2.3	16
14	Normal volumetric and T1 relaxation time values at 1.5Â in segmented pediatric brain MRI using a MP2RAGE acquisition. European Radiology, 2021, 31, 1505-1516.	2.3	4
15	Probing myelin content of the human brain with MRI: A review. Magnetic Resonance in Medicine, 2021, 85, 627-652.	1.9	42
16	Simulated Half-Fourier Acquisitions Single-shot Turbo Spin Echo (HASTE) ofâ€the Fetal Brain: Application toâ€Super-Resolution Reconstruction. Lecture Notes in Computer Science, 2021, , 157-167.	1.0	0
17	Model-informed machine learning for multi-component<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.svg"><mml:msub><mml:mi>T</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math> relaxometry. Medical Image Analysis. 2021, 69, 101940.	7.0	26
18	Multi-Compartment Diffusion Mri, T2 Relaxometry And Myelin Water Imaging As Neuroimaging Descriptors For Anomalous Tissue Detection. , 2021, , .		2

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19	Comparison of non-parametric T2 relaxometry methods for myelin water quantification. Medical Image Analysis, 2021, 69, 101959.	7.0	16
20	Differentiation between benign and malignant vertebral compression fractures using qualitative and quantitative analysis of a single fast spin echo T2-weighted Dixon sequence. European Radiology, 2021, 31, 9418-9427.	2.3	13
21	Revisiting the T2 spectrum imaging inverse problem: Bayesian regularized non-negative least squares. NeuroImage, 2021, 244, 118582.	2.1	8
22	Synthetic T2-weighted images of the lumbar spine derived from an accelerated T2 mapping sequence: Comparison to conventional T2w turbo spin echo. Magnetic Resonance Imaging, 2021, 84, 92-100.	1.0	3
23	Data-driven myelin water imaging based on T <sub>1</sub> and T <sub>2</sub> relaxometry. NMR in Biomedicine, 2021, , e4668.	1.6	0
24	Model-based super-resolution reconstruction of T <sub>2</sub> maps. Magnetic Resonance in Medicine, 2020, 83, 906-919.	1.9	11
25	Quantitative brain relaxation atlases for personalized detection and characterization of brain pathology. Magnetic Resonance in Medicine, 2020, 83, 337-351.	1.9	19
26	Magnetization transfer in magnetic resonance fingerprinting. Magnetic Resonance in Medicine, 2020, 84, 128-141.	1.9	52
27	Accelerated T2 Mapping of the Lumbar Intervertebral Disc. Investigative Radiology, 2020, 55, 695-701.	3.5	10
28	Novel T <sub>2</sub> Mapping for Evaluating Cervical Cancer Features by Providing Quantitative T <sub>2</sub> Maps and Synthetic Morphologic Images: A Preliminary Study. Journal of Magnetic Resonance Imaging, 2020, 52, 1859-1869.	1.9	20
29	Accelerated MP2RAGE imaging using Cartesian phyllotaxis readout and compressed sensing reconstruction. Magnetic Resonance in Medicine, 2020, 84, 1881-1894.	1.9	30
30	T2 Mapping from Super-Resolution-Reconstructed Clinical Fast Spin Echo Magnetic Resonance Acquisitions. Lecture Notes in Computer Science, 2020, , 114-124.	1.0	2
31	Clinical equivalence assessment of T2 synthesized pediatric brain magnetic resonance imaging. Journal of Neuroradiology, 2019, 46, 130-135.	0.6	5
32	Quantitative T2 mapping accelerated by GRAPPATINI for evaluation of muscles in patients with myositis. British Journal of Radiology, 2019, 92, 20190109.	1.0	13
33	Fast model-based T <sub>2</sub> mapping using SAR-reduced simultaneous multislice excitation. Magnetic Resonance in Medicine, 2019, 82, 2090-2103.	1.9	11
34	MRI T2 Mapping of the Knee Providing Synthetic Morphologic Images: Comparison to Conventional Turbo Spin-Echo MRI. Radiology, 2019, 293, 620-630.	3.6	31
35	Patient respiratory-triggered quantitative T <sub>2</sub> mapping in the pancreas. Journal of Magnetic Resonance Imaging, 2019, 50, 410-416.	1.9	15
36	T2 Mapping in Prostate Cancer. Investigative Radiology, 2019, 54, 146-152.	3.5	63

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37	Accelerated T <sub>2</sub> mapping combining parallel MRI and model-based reconstruction: GRAPPATINI. Journal of Magnetic Resonance Imaging, 2018, 48, 359-368.	1.9	71
38	Prospective head motion correction using FID-guided on-demand image navigators. Magnetic Resonance in Medicine, 2017, 78, 193-203.	1.9	11
39	An in vivo study of the orientation-dependent and independent components of transverse relaxation rates in white matter. NMR in Biomedicine, 2016, 29, 1780-1790.	1.6	33