

Tom Hilbert

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1536542/publications.pdf>

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	Accelerated T ₂ mapping combining parallel MRI and model-based reconstruction: GRAPPATINI. Journal of Magnetic Resonance Imaging, 2018, 48, 359-368.	1.9	71
2	T2 Mapping in Prostate Cancer. Investigative Radiology, 2019, 54, 146-152.	3.5	63
3	Magnetization transfer in magnetic resonance fingerprinting. Magnetic Resonance in Medicine, 2020, 84, 128-141.	1.9	52
4	Probing myelin content of the human brain with MRI: A review. Magnetic Resonance in Medicine, 2021, 85, 627-652.	1.9	42
5	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
6	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
7	Accelerated MP2RAGE imaging using Cartesian phyllotaxis readout and compressed sensing reconstruction. Magnetic Resonance in Medicine, 2020, 84, 1881-1894.	1.9	30
8	Model-informed machine learning for multi-component T_2 relaxometry. Medical Image Analysis, 2021, 69, 101940.	7.0	26
9	Novel T_2 Mapping for Evaluating Cervical Cancer Features by Providing Quantitative T_2 Maps and Synthetic Morphologic Images: A Preliminary Study. Journal of Magnetic Resonance Imaging, 2020, 52, 1859-1869.	1.9	20
10	Quantitative brain relaxation atlases for personalized detection and characterization of brain pathology. Magnetic Resonance in Medicine, 2020, 83, 337-351.	1.9	19
11	Fast and high-resolution myelin water imaging: Accelerating multi-echo GRASE with CAIPIRINHA. Magnetic Resonance in Medicine, 2021, 85, 209-222.	1.9	16
12	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
13	Comparison of non-parametric T2 relaxometry methods for myelin water quantification. Medical Image Analysis, 2021, 69, 101959.	7.0	16
14	Patient respiratory-triggered quantitative T ₂ mapping in the pancreas. Journal of Magnetic Resonance Imaging, 2019, 50, 410-416.	1.9	15
15	Quantitative T2 mapping accelerated by GRAPPATINI for evaluation of muscles in patients with myositis. British Journal of Radiology, 2019, 92, 20190109.	1.0	13
16	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
17	Prospective head motion correction using FID-guided on-demand image navigators. Magnetic Resonance in Medicine, 2017, 78, 193-203.	1.9	11
18	Fast model-based T ₂ mapping using SAR-reduced simultaneous multislice excitation. Magnetic Resonance in Medicine, 2019, 82, 2090-2103.	1.9	11

#	ARTICLE	IF	CITATIONS
19	Model-based super-resolution reconstruction of T ₂ maps. Magnetic Resonance in Medicine, 2020, 83, 906-919.	1.9	11
20	Accelerated T2 Mapping of the Lumbar Intervertebral Disc. Investigative Radiology, 2020, 55, 695-701.	3.5	10
21	Dixon and GRAPPATINI T2 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
22	Periventricular gradient of T1 tissue alterations in multiple sclerosis. NeuroImage: Clinical, 2022, 34, 103009.	1.4	9
23	Compressed sensing with signal averaging for improved sensitivity and motion artifact reduction in fluorine-19 MRI. NMR in Biomedicine, 2021, 34, e4418.	1.6	8
24	Revisiting the T2 spectrum imaging inverse problem: Bayesian regularized non-negative least squares. NeuroImage, 2021, 244, 118582.	2.1	8
25	Value of T ₂ Mapping MRI for Prostate Cancer Detection and Classification. Journal of Magnetic Resonance Imaging, 2022, 56, 413-422.	1.9	8
26	Clinical equivalence assessment of T2 synthesized pediatric brain magnetic resonance imaging. Journal of Neuroradiology, 2019, 46, 130-135.	0.6	5
27	Normal volumetric and T1 relaxation time values at 1.5T in segmented pediatric brain MRI using a MP2RAGE acquisition. European Radiology, 2021, 31, 1505-1516.	2.3	4
28	Optimization of magnetization transfer contrast for EPI FLAIR brain imaging. Magnetic Resonance in Medicine, 2022, 87, 2380-2387.	1.9	4
29	T2 mapping for the characterization of prostate lesions. World Journal of Urology, 2022, 40, 1455-1461.	1.2	4
30	Simultaneous 3D acquisition of ¹ H MRF and ²³ Na MRI. Magnetic Resonance in Medicine, 2022, 87, 2299-2312.	1.9	4
31	A Fetal Brain magnetic resonance Acquisition Numerical phantom (FaBiAN). Scientific Reports, 2022, 12, .	1.6	4
32	Evaluating reproducibility and subject-specificity of microstructure-informed connectivity. NeuroImage, 2022, 258, 119356.	2.1	4
33	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
34	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
35	Multi-Compartment Diffusion Mri, T2 Relaxometry And Myelin Water Imaging As Neuroimaging Descriptors For Anomalous Tissue Detection. , 2021, , .		2
36	T2 Mapping from Super-Resolution-Reconstructed Clinical Fast Spin Echo Magnetic Resonance Acquisitions. Lecture Notes in Computer Science, 2020, , 114-124.	1.0	2

#	ARTICLE	IF	CITATIONS
37	Comparison of T2 Quantification Strategies in the Abdominal-Pelvic Region for Clinical Use. Investigative Radiology, 2022, Publish Ahead of Print, .	3.5	2
38	Simulated Half-Fourier Acquisitions Single-shot Turbo Spin Echo (HASTE) of the Fetal Brain: Application to Super-Resolution Reconstruction. Lecture Notes in Computer Science, 2021, , 157-167.	1.0	0
39	Data-driven myelin water imaging based on T_1 and T_2 relaxometry. NMR in Biomedicine, 2021, , e4668.	1.6	0