Dan Benjamini

List of Publications by Year
in descending order

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30 papers	787 citations	566801 15 h-index	580395 25 g-index
36 all docs	36 docs citations	36 times ranked	573 citing authors

#	Article	IF	Citations
1	Use of marginal distributions constrained optimization (MADCO) for accelerated 2D MRI relaxometry and diffusometry. Journal of Magnetic Resonance, 2016, 271, 40-45.	1.2	89
2	White matter microstructure from nonparametric axon diameter distribution mapping. NeuroImage, 2016, 135, 333-344.	2.1	64
3	Connectome 2.0: Developing the next-generation ultra-high gradient strength human MRI scanner for bridging studies of the micro-, meso- and macro-connectome. NeuroImage, 2021, 243, 118530.	2.1	58
4	Magnetic resonance microdynamic imaging reveals distinct tissue microenvironments. NeuroImage, 2017, 163, 183-196.	2.1	52
5	Diffuse axonal injury has a characteristic multidimensional MRI signature in the human brain. Brain, 2021, 144, 800-816.	3.7	50
6	Combined diffusionâ€relaxometry microstructure imaging: Current status and future prospects. Magnetic Resonance in Medicine, 2021, 86, 2987-3011.	1.9	46
7	Magnetic resonance measurements of cellular and sub-cellular membrane structures in live and fixed neural tissue. ELife, 2019, 8, .	2.8	40
8	Imaging Local Diffusive Dynamics Using Diffusion Exchange Spectroscopy MRI. Physical Review Letters, 2017, 118, 158003.	2.9	38
9	Multidimensional correlation MRI. NMR in Biomedicine, 2020, 33, e4226.	1.6	36
10	Nonparametric pore size distribution using d-PFG: Comparison to s-PFG and migration to MRI. Journal of Magnetic Resonance, 2014, 246, 36-45.	1.2	34
11	Towards clinically feasible relaxation-diffusion correlation MRI using MADCO. Microporous and Mesoporous Materials, 2018, 269, 93-96.	2.2	26
12	Retaining information from multidimensional correlation MRI using a spectral regions of interest generator. Scientific Reports, 2020, 10, 3246.	1.6	22
13	Pore size distribution of bioresorbable films using a 3-D diffusion NMR method. Acta Biomaterialia, 2014, 10, 2762-2768.	4.1	21
14	Rapid detection of the presence of diffusion exchange. Journal of Magnetic Resonance, 2018, 297, 17-22.	1.2	20
15	Fast, accurate 2D-MR relaxation exchange spectroscopy (REXSY): Beyond compressed sensing. Journal of Chemical Physics, 2016, 145, 154202.	1.2	19
16	Water mobility spectral imaging of the spinal cord: Parametrization of model-free Laplace MRI. Magnetic Resonance Imaging, 2019, 56, 187-193.	1.0	19
17	Estimation of pore size distribution using concentric double pulsed-field gradient NMR. Journal of Magnetic Resonance, 2013, 230, 198-204.	1.2	16
18	Joint radius-length distribution as a measure of anisotropic pore eccentricity: An experimental and analytical framework. Journal of Chemical Physics, 2014, 141, 214202.	1.2	16

#	Article	IF	Citations
19	Anisotropic phantom to calibrate high-q diffusion MRI methods. Journal of Magnetic Resonance, 2017, 275, 19-28.	1.2	16
20	Direct and specific assessment of axonal injury and spinal cord microenvironments using diffusion correlation imaging. NeuroImage, 2020, 221, 117195.	2.1	16
21	A proposed 2D framework for estimation of pore size distribution by double pulsed field gradient NMR. Journal of Chemical Physics, 2012, 137, 224201.	1.2	15
22	Using double pulsed-field gradient MRI to study tissue microstructure in traumatic brain injury (TBI). Microporous and Mesoporous Materials, 2018, 269, 156-159.	2.2	15
23	A novel MRI phantom to study interstitial fluid transport in the glymphatic system. Magnetic Resonance Imaging, 2019, 56, 181-186.	1.0	12
24	Limits to flow detection in phase contrast MRI. Journal of Magnetic Resonance Open, 2020, 2-3, 100004.	0.5	12
25	Real-time measurement of diffusion exchange rate in biological tissue. Journal of Magnetic Resonance, 2020, 317, 106782.	1.2	11
26	Multidimensional MRI for Characterization of Subtle Axonal Injury Accelerated Using an Adaptive Nonlocal Multispectral Filter. Frontiers in Physics, 2021, 9, .	1.0	9
27	Generalized Mean Apparent Propagator MRI to Measure and Image Advective and Dispersive Flows in Medicine and Biology. IEEE Transactions on Medical Imaging, 2019, 38, 11-20.	5.4	7
28	Chapter 10. Nonparametric Inversion of Relaxation and Diffusion Correlation Data. New Developments in NMR, 2020, , 278-316.	0.1	7
29	Assessment of Functional Properties of Cartilage using Double Quantum Filtered MRI. Materials Research Society Symposia Proceedings, 2014, 1622, 41-48.	0.1	0
30	Editorial: Capturing Biological Complexity and Heterogeneity Using Multidimensional MRI. Frontiers in Physics, 0, 10, .	1.0	0