

Brian K Rutt

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

3,264
citations

218592

26
h-index

182361

51
g-index

52
all docs

52
docs citations

52
times ranked

4716
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparison between 7 Tesla and 3 Tesla MRI for characterizing orbital lesions. <i>Diagnostic and Interventional Imaging</i> , 2022, 103, 433-439.	1.8	1
2	Association of CSF Biomarkers With Hippocampal-Dependent Memory in Preclinical Alzheimer Disease. <i>Neurology</i> , 2021, 96, e1470-e1481.	1.5	19
3	Minimum electric field gradient coil design: Theoretical limits and practical guidelines. <i>Magnetic Resonance in Medicine</i> , 2021, 86, 569-580.	1.9	9
4	Electric field calculation and peripheral nerve stimulation prediction for head and body gradient coils. <i>Magnetic Resonance in Medicine</i> , 2021, 86, 2301-2315.	1.9	6
5	Effect of radiofrequency shield diameter on signal-to-noise ratio at ultra-high field MRI. <i>Magnetic Resonance in Medicine</i> , 2021, 85, 3522-3530.	1.9	11
6	In vivo high-resolution structural MRI-based atlas of human thalamic nuclei. <i>Scientific Data</i> , 2021, 8, 275.	2.4	15
7	White-matter-nulled MPRAGE at 7T reveals thalamic lesions and atrophy of specific thalamic nuclei in multiple sclerosis. <i>Multiple Sclerosis Journal</i> , 2020, 26, 987-992.	1.4	19
8	SMS MUSSELS: A navigator-free reconstruction for simultaneous multi-slice accelerated multi-shot diffusion weighted imaging. <i>Magnetic Resonance in Medicine</i> , 2020, 83, 154-169.	1.9	14
9	Automated thalamic nuclei segmentation using multi-planar cascaded convolutional neural networks. <i>Magnetic Resonance Imaging</i> , 2020, 73, 45-54.	1.0	7
10	Improved Vim targeting for focused ultrasound ablation treatment of essential tremor: A probabilistic and patient-specific approach. <i>Human Brain Mapping</i> , 2020, 41, 4769-4788.	1.9	22
11	Correlative Microscopy to Localize and Characterize Iron Deposition in Alzheimer's Disease. <i>Journal of Alzheimer's Disease Reports</i> , 2020, 4, 525-536.	1.2	12
12	Hippocampal and cortical mechanisms at retrieval explain variability in episodic remembering in older adults. <i>ELife</i> , 2020, 9, .	2.8	38
13	MR susceptibility contrast imaging using a 2D simultaneous multi-slice gradient-echo sequence at 7T. <i>PLoS ONE</i> , 2019, 14, e0219705.	1.1	5
14	Close Association of Myeloperoxidase-Producing Activated Microglia with Amyloid Plaques in Hypercholesterolemic Rabbits. <i>Journal of Alzheimer's Disease</i> , 2019, 67, 1221-1234.	1.2	3
15	Hippocampal CA1 subfield predicts episodic memory impairment in Parkinson's disease. <i>NeuroImage: Clinical</i> , 2019, 23, 101824.	1.4	47
16	Thalamus Optimized Multi Atlas Segmentation (THOMAS): fast, fully automated segmentation of thalamic nuclei from structural MRI. <i>NeuroImage</i> , 2019, 194, 272-282.	2.1	118
17	IMPULSE: A scalable algorithm for design of minimum specific absorption rate parallel transmit RF pulses. <i>Magnetic Resonance in Medicine</i> , 2019, 81, 2808-2822.	1.9	10
18	Closing the loop on impulsivity via nucleus accumbens delta-band activity in mice and man. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 192-197.	3.3	80

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19	Gradient and shim technologies for ultra high field MRI. <i>NeuroImage</i> , 2018, 168, 59-70.	2.1	75
20	Characterization of Magneto-Endosymbionts as MRI Cell Labeling and Tracking Agents. <i>Molecular Imaging and Biology</i> , 2018, 20, 65-73.	1.3	13
21	Cell Labeling with Magneto-Endosymbionts and the Dissection of the Subcellular Location, Fate, and Host Cell Interactions. <i>Molecular Imaging and Biology</i> , 2018, 20, 55-64.	1.3	7
22	Comparison of new element designs for combined RF-shim arrays at 7 T. <i>Concepts in Magnetic Resonance Part B</i> , 2018, 48B, .	0.3	1
23	Multi-component relaxation in clinically isolated syndrome: Lesion myelination may predict multiple sclerosis conversion. <i>NeuroImage: Clinical</i> , 2018, 20, 61-70.	1.4	11
24	Thalamic alterations remote to infarct appear as focal iron accumulation and impact clinical outcome. <i>Brain</i> , 2017, 140, 1932-1946.	3.7	50
25	A Degenerate Birdcage with Integrated Tx/Rx Switches and Butler Matrix for the Human Limbs at 7T. <i>Applied Magnetic Resonance</i> , 2017, 48, 307-326.	0.6	9
26	Individual differences in associative memory among older adults explained by hippocampal subfield structure and function. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 12075-12080.	3.3	62
27	On the accurate analysis of vibroacoustics in head insert gradient coils. <i>Magnetic Resonance in Medicine</i> , 2017, 78, 1635-1645.	1.9	25
28	Direct SAR mapping by thermoacoustic imaging: A feasibility study. <i>Magnetic Resonance in Medicine</i> , 2017, 78, 1599-1606.	1.9	13
29	PKM2 activation sensitizes cancer cells to growth inhibition by 2-deoxy-D-glucose. <i>Oncotarget</i> , 2017, 8, 90959-90968.	0.8	14
30	Biexponential longitudinal relaxation in white matter: Characterization and impact on T ₁ mapping with IR-FSE and MP2RAGE. <i>Magnetic Resonance in Medicine</i> , 2016, 75, 2265-2277.	1.9	41
31	MRI and histopathologic study of a novel cholesterol-fed rabbit model of xanthogranuloma. <i>Journal of Magnetic Resonance Imaging</i> , 2016, 44, 673-682.	1.9	5
32	In Vivo 7T MR Quantitative Susceptibility Mapping Reveals Opposite Susceptibility Contrast between Cortical and White Matter Lesions in Multiple Sclerosis. <i>American Journal of Neuroradiology</i> , 2016, 37, 1808-1815.	1.2	31
33	Optimization of white-matter-nulled magnetization prepared rapid gradient echo (MP-RAGE) imaging. <i>Magnetic Resonance in Medicine</i> , 2015, 73, 1786-1794.	1.9	35
34	Activated iron-containing microglia in the human hippocampus identified by magnetic resonance imaging in Alzheimer disease. <i>Neurobiology of Aging</i> , 2015, 36, 2483-2500.	1.5	108
35	Ultra-high resolution in-vivo 7.0 T structural imaging of the human hippocampus reveals the endfolial pathway. <i>NeuroImage</i> , 2015, 112, 1-6.	2.1	22
36	Visualization of intra-thalamic nuclei with optimized white-matter-nulled MPRAGE at 7T. <i>NeuroImage</i> , 2014, 84, 534-545.	2.1	105

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37	Flip angle mapping with the accelerated 3D lookâ€‘locker sequence. <i>Magnetic Resonance in Medicine</i> , 2014, 71, 591-598.	1.9	6
38	Deficient MWF mapping in multiple sclerosis using 3D whole-brain multi-component relaxation MRI. <i>NeuroImage</i> , 2012, 59, 2670-2677.	2.1	71
39	Investigating exchange and multicomponent relaxation in fullyâ€‘balanced steadyâ€‘state free precession imaging. <i>Journal of Magnetic Resonance Imaging</i> , 2008, 27, 1421-1429.	1.9	36
40	Cleaning multicomponent T_1 and T_2 information from steadyâ€‘state imaging data. <i>Magnetic Resonance in Medicine</i> , 2008, 60, 1372-1387.	1.9	413
41	In vivo MRI of cancer cell fate at the single-cell level in a mouse model of breast cancer metastasis to the brain. <i>Magnetic Resonance in Medicine</i> , 2006, 56, 1001-1010.	1.9	286
42	High-resolution T_1 and T_2 mapping of the brain in a clinically acceptable time with DESPOT1 and DESPOT2. <i>Magnetic Resonance in Medicine</i> , 2005, 53, 237-241.	1.9	407
43	Imaging single mammalian cells with a 1.5 T clinical MRI scanner. <i>Magnetic Resonance in Medicine</i> , 2003, 49, 968-971.	1.9	216
44	Peripheral nerve stimulation properties of head and body gradient coils of various sizes. <i>Magnetic Resonance in Medicine</i> , 2003, 50, 50-58.	1.9	62
45	Application of the static dephasing regime theory to superparamagnetic iron-oxide loaded cells. <i>Magnetic Resonance in Medicine</i> , 2002, 48, 52-61.	1.9	221
46	Simple linear formulation for magnetostimulation specific to MRI gradient coils. <i>Magnetic Resonance in Medicine</i> , 2001, 45, 916-919.	1.9	38
47	Design and fabrication of a three-axis edge ROU head and neck gradient coil. <i>Magnetic Resonance in Medicine</i> , 2000, 44, 955-963.	1.9	68
48	Magnetization transfer and multicomponent T_2 relaxation measurements with histopathologic correlation in an experimental model of MS. <i>Journal of Magnetic Resonance Imaging</i> , 2000, 11, 586-595.	1.9	190
49	Design and fabrication of a three-axis multilayer gradient coil for magnetic resonance microscopy of mice. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2000, 10, 131-146.	1.1	34
50	A fast 3D Look-Locker method for volumetric T_1 mapping. <i>Magnetic Resonance Imaging</i> , 1999, 17, 1163-1171.	1.0	122