Craig K Jones

List of Publications by Year
in descending order

65 papers	4,949 citations	94433 37 h-index	144013 57 g-index
66 all docs	66 docs citations	66 times ranked	5519 citing authors

#	Article	IF	Citations
1	MRI detection of glycogen in vivo by using chemical exchange saturation transfer imaging (glycoCEST). Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 4359-4364.	7.1	370
2	Effects of signalâ€toâ€noise ratio on the accuracy and reproducibility of diffusion tensor imagingâ€“derived fractional anisotropy, mean diffusivity, and principal eigenvector measurements at 1.5T. Journal of Magnetic Resonance Imaging, 2007, 26, 756-767.	3.4	336
3	Amide proton transfer imaging of human brain tumors at 3T. Magnetic Resonance in Medicine, 2006, 56, 585-592.	3.0	308
4	Effects of diffusion weighting schemes on the reproducibility of DTI-derived fractional anisotropy, mean diffusivity, and principal eigenvector measurements at 1.5T. NeuroImage, 2007, 36, 1123-1138.	4.2	266
5	Nuclear Overhauser enhancement (NOE) imaging in the human brain at 7T. NeuroImage, 2013, 77, 114-124.	4.2	266
6	Applications of stimulated echo correction to multicomponent T₂ analysis. Magnetic Resonance in Medicine, 2012, 67, 1803-1814.	3.0	218
7	Quantitative description of the asymmetry in magnetization transfer effects around the water resonance in the human brain. Magnetic Resonance in Medicine, 2007, 58, 786-793.	3.0	196
8	In vivo threeâ€dimensional wholeâ€brain pulsed steadyâ€state chemical exchange saturation transfer at 7 T. Magnetic Resonance in Medicine, 2012, 67, 1579-1589.	3.0	176
9	Functional Networks in the Anesthetized Rat Brain Revealed by Independent Component Analysis of Resting-State fMRI. Journal of Neurophysiology, 2010, 103, 3398-3406.	1.8	143
10	Theoretical and experimental investigation of the VASO contrast mechanism. Magnetic Resonance in Medicine, 2006, 56, 1261-1273.	3.0	142
11	Association of Cortical Lesion Burden on 7-T Magnetic Resonance Imaging With Cognition and Disability in Multiple Sclerosis. JAMA Neurology, 2015, 72, 1004.	9.0	140
12	Fast 3D chemical exchange saturation transfer (CEST) imaging of the human brain. Magnetic Resonance in Medicine, 2010, 64, 638-644.	3.0	134
13	Variable delay multi-pulse train for fast chemical exchange saturation transfer and relayed-nuclear overhauser enhancement MRI. Magnetic Resonance in Medicine, 2014, 71, 1798-1812.	3.0	115
14	High-resolution fMRI investigation of the medial temporal lobe. Human Brain Mapping, 2007, 28, 959-966.	3.6	110
15	Quantitative Susceptibility Mapping Suggests Altered Brain Iron in Premanifest Huntington Disease. American Journal of Neuroradiology, 2016, 37, 789-796.	2.4	107
16	A sensitive PARACEST contrast agent for temperature MRI: Eu³⁺â€DOTAMâ€glycine (Gly)â€phenylalanine (Phe). Magnetic Resonance in Medicine, 2008, 59, 374-381.	3.0	106
17	Fourâ€pool modeling of proton exchange processes in biological systems in the presence of MRIâ€“paramagnetic chemical exchange saturation transfer (PARACEST) agents. Magnetic Resonance in Medicine, 2008, 60, 1197-1206.	3.0	106
18	Reproducibility and Temporal Structure in Weekly Resting-State fMRI over a Period of 3.5 Years. PLoS ONE, 2015, 10, e0140134.	2.5	97

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19	Mapping magnetic susceptibility anisotropies of white matter in vivo in the human brain at 7T. NeuroImage, 2012, 62, 314-330.	4.2	92
20	An account of the discrepancy between MRI and PET cerebral blood flow measures. A high-field MRI investigation. NMR in Biomedicine, 2006, 19, 1043-1054.	2.8	91
21	Wholeâ€brain amide proton transfer (APT) and nuclear overhauser enhancement (NOE) imaging in glioma patients using lowâ€power steadyâ€state pulsed chemical exchange saturation transfer (CEST) imaging at 7T. Journal of Magnetic Resonance Imaging, 2016, 44, 41-50.	3.4	91
22	Normal-appearing white matter in multiple sclerosis has heterogeneous, diffusely prolongedT2. Magnetic Resonance in Medicine, 2002, 47, 403-408.	3.0	88
23	Pattern separation of emotional information in hippocampal dentate and CA3. Hippocampus, 2014, 24, 1146-1155.	1.9	86
24	Multiparametric magnetic resonance imaging analysis of the corticospinal tract in multiple sclerosisâ˜†. NeuroImage, 2007, 38, 271-279.	4.2	84
25	Magnetic susceptibility contrast variations in multiple sclerosis lesions. Journal of Magnetic Resonance Imaging, 2016, 43, 463-473.	3.4	79
26	Lesion Heterogeneity on High-Field Susceptibility MRI Is Associated with Multiple Sclerosis Severity. American Journal of Neuroradiology, 2016, 37, 1447-1453.	2.4	73
27	Spinal cord quantitative MRI discriminates between disability levels in multiple sclerosis. Neurology, 2013, 80, 540-547.	1.1	72
28	Magnetization transfer contrastâ€“suppressed imaging of amide proton transfer and relayed nuclear overhauser enhancement chemical exchange saturation transfer effects in the human brain at 7T. Magnetic Resonance in Medicine, 2016, 75, 88-96.	3.0	72
29	Multiparametric MRI correlates of sensorimotor function in the spinal cord in multiple sclerosis. Multiple Sclerosis Journal, 2013, 19, 427-435.	3.0	68
30	Investigating Axonal Damage in Multiple Sclerosis by Diffusion Tensor Spectroscopy. Journal of Neuroscience, 2012, 32, 6665-6669.	3.6	63
31	Reproducibility of tractâ€specific magnetization transfer and diffusion tensor imaging in the cervical spinal cord at 3 tesla. NMR in Biomedicine, 2010, 23, 207-217.	2.8	59
32	Pulsed magnetization transfer imaging with body coil transmission at 3 Tesla: Feasibility and application. Magnetic Resonance in Medicine, 2006, 56, 866-875.	3.0	57
33	Implementation of vascularâ€spaceâ€occupancy MRI at 7T. Magnetic Resonance in Medicine, 2013, 69, 1003-1013.	3.0	52
34	Thalamic lesions in multiple sclerosis by 7T MRI: Clinical implications and relationship to cortical pathology. Multiple Sclerosis Journal, 2015, 21, 1139-1150.	3.0	49
35	Detection of rapidly exchanging compounds using onâ€resonance frequencyâ€labeled exchange (FLEX) transfer. Magnetic Resonance in Medicine, 2012, 68, 1048-1055.	3.0	47
36	Robust myelin water quantification: Averaging vs. spatial filtering. Magnetic Resonance in Medicine, 2003, 50, 206-209.	3.0	45

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37	Magnetization transfer weighted imaging in the upper cervical spinal cord using cerebrospinal fluid as intersubject normalization reference (MTCSF imaging). Magnetic Resonance in Medicine, 2005, 54, 201-206.	3.0	42
38	Wholeâ€brain threeâ€dimensional T2â€weighted BOLD functional magnetic resonance imaging at 7 Tesla. Magnetic Resonance in Medicine, 2014, 72, 1530-1540.	3.0	39
39	Linear combination of multiecho data: Short T 2 component selection. Magnetic Resonance in Medicine, 2004, 51, 495-502.	3.0	35
40	Demonstration of Brain Tumor-Induced Neurovascular Uncoupling in Resting-State fMRI at Ultrahigh Field. Brain Connectivity, 2016, 6, 267-272.	1.7	33
41	Imaging of Endogenous Exchangeable Proton Signals in the Human Brain Using Frequency Labeled Exchange Transfer Imaging. Magnetic Resonance in Medicine, 2013, 69, 966-973.	3.0	25
42	In vivo detection of PARACEST agents with relaxation correction. Magnetic Resonance in Medicine, 2010, 63, 1184-1192.	3.0	20
43	MR multispectral analysis of multiple sclerosis lesions. Journal of Magnetic Resonance Imaging, 1997, 7, 499-511.	3.4	17
44	Bi-Exponential T2 Decay in Dairy Cream Phantoms. Magnetic Resonance Imaging, 1998, 16, 83-85.	1.8	17
45	Quantitative magnetic susceptibility mapping without phase unwrapping using WASSR. NeuroImage, 2014, 86, 265-279.	4.2	17
46	Measurement of arteriolar blood volume in brain tumors using MRI without exogenous contrast agent administration at 7T. Journal of Magnetic Resonance Imaging, 2016, 44, 1244-1255.	3.4	13
47	Long-length tomosynthesis and 3D-2D registration for intraoperative assessment of spine instrumentation. Physics in Medicine and Biology, 2021, 66, 055008.	3.0	13
48	Time domain removal of irrelevant magnetization in chemical exchange saturation transfer Zâ€spectra. Magnetic Resonance in Medicine, 2013, 70, 547-555.	3.0	11
49	Joint synthesis and registration network for deformable MR-CBCT image registration for neurosurgical guidance. Physics in Medicine and Biology, 2022, 67, 125008.	3.0	9
50	3D vertebrae labeling in spine CT: an accurate, memory-efficient (Ortho2D) framework. Physics in Medicine and Biology, 2021, 66, 125020.	3.0	8
51	Automated prediction of the Thoracolumbar Injury Classification and Severity Score from CT using a novel deep learning algorithm. Neurosurgical Focus, 2022, 52, E5.	2.3	8
52	Optimized MRI contrast for onâ€resonance proton exchange processes of PARACEST agents in biological systems. Magnetic Resonance in Medicine, 2009, 62, 1282-1291.	3.0	7
53	Multi-scale application of the N3 method for intensity correction of MR images. , 2002, , .		5
54	Data-driven detection and registration of spine surgery instrumentation in intraoperative images. , 2020, , .		4

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55	Machine Learning for Hepatocellular Carcinoma Segmentation at MRI: Radiology In Training. Radiology, 2022, 304, 509-515.	7.3	4
56	Robot-assisted ventriculoscopic 3D reconstruction for guidance of deep-brain stimulation surgery. , 2021, , .		3
57	Multi-slot extended view imaging on the O-Arm: image quality and application to intraoperative assessment of spinal morphology. , 2020, , .		3
58	Deformable 3D-2D registration for high-precision guidance and verification of neuroelectrode placement. Physics in Medicine and Biology, 2021, 66, 215014.	3.0	3
59	Pre-Clinical Development of Robot-Assisted Ventriculoscopy for 3-D Image Reconstruction and Guidance of Deep Brain Neurosurgery. IEEE Transactions on Medical Robotics and Bionics, 2022, 4, 28-37.	3.2	3
60	Intraoperative coneâ€beam and slotâ€beam CT: 3D image quality and dose with a slot collimator on the Oâ€arm imaging system. Medical Physics, 2021, 48, 6800-6809.	3.0	2
61	Multi-slot intraoperative imaging and 3D-2D registration for evaluation of long surgical constructs in spine surgery. , 2020, , .		2
62	Direct quantification of epistemic and aleatoric uncertainty in 3D U-net segmentation. Journal of Medical Imaging, 2022, 9, .	1.5	2
63	Convex geometry for rapid tissue classification in MRI. , 2002, , .		0
64	Resolution and inversion time dependence of CBF measurements using MRI: A possible explanation for discrepancy between MRI and PET. Journal of Cerebral Blood Flow and Metabolism, 2005, 25, S320-S320.	4.3	0
65	Automatic labeling of vertebrae in long-length intraoperative imaging with a multi-view, region-based CNN. , 2022, , .		0