

Aaron T Hess

List of Publications by Year in descending order

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39
papers

1,890
citations

394421

19
h-index

302126

39
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39
docs citations

39
times ranked

2980
citing authors

#	ARTICLE	IF	CITATIONS
1	Volumetric navigators for prospective motion correction and selective reacquisition in neuroanatomical MRI. <i>Magnetic Resonance in Medicine</i> , 2012, 68, 389-399.	3.0	338
2	Aortic Dilatation in Bicuspid Aortic Valve Disease. <i>Circulation: Cardiovascular Imaging</i> , 2013, 6, 499-507.	2.6	329
3	Tracking Myocardial Motion From Cine DENSE Images Using Spatiotemporal Phase Unwrapping and Temporal Fitting. <i>IEEE Transactions on Medical Imaging</i> , 2007, 26, 15-30.	8.9	191
4	Real-time motion and B_0 corrected single voxel spectroscopy using volumetric navigators. <i>Magnetic Resonance in Medicine</i> , 2011, 66, 314-323.	3.0	111
5	Combined fMRI-MRS acquires simultaneous glutamate and BOLD-fMRI signals in the human brain. <i>NeuroImage</i> , 2017, 155, 113-119.	4.2	106
6	3D GABA imaging with real-time motion correction, shim update and reacquisition of adiabatic spiral MRSI. <i>NeuroImage</i> , 2014, 103, 290-302.	4.2	100
7	Study protocol: the Whitehall II imaging sub-study. <i>BMC Psychiatry</i> , 2014, 14, 159.	2.6	82
8	Real-time motion- and B_0 -correction for LASER-localized spiral-accelerated 3D-MRSI of the brain at 3T. <i>NeuroImage</i> , 2014, 88, 22-31.	4.2	64
9	Aortic 4D flow: Quantification of signal-to-noise ratio as a function of field strength and contrast enhancement for 1.5T, 3T, and 7T. <i>Magnetic Resonance in Medicine</i> , 2015, 73, 1864-1871.	3.0	55
10	Volumetric navigators for real-time motion correction in diffusion tensor imaging. <i>Magnetic Resonance in Medicine</i> , 2012, 68, 1097-1108.	3.0	54
11	Left Ventricular Flow Analysis. <i>Circulation: Cardiovascular Imaging</i> , 2019, 12, e008130.	2.6	41
12	Differential flow improvements after valve replacements in bicuspid aortic valve disease: a cardiovascular magnetic resonance assessment. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2018, 20, 10.	3.3	37
13	Motion correction methods for MRS: experts' consensus recommendations. <i>NMR in Biomedicine</i> , 2021, 34, e4364.	2.8	37
14	Test-retest variability of left ventricular 4D flow cardiovascular magnetic resonance measurements in healthy subjects. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2018, 20, 15.	3.3	35
15	Real-time motion and B_0 correction for localized adiabatic selective refocusing (LASER) MRSI using echo planar imaging volumetric navigators. <i>NMR in Biomedicine</i> , 2012, 25, 347-358.	2.8	32
16	An In Vivo ^1H Magnetic Resonance Spectroscopy Study of the Deep Cerebellar Nuclei in Children with Fetal Alcohol Spectrum Disorders. <i>Alcoholism: Clinical and Experimental Research</i> , 2014, 38, 1330-1338.	2.4	31
17	Myocardial 3D strain calculation by combining cine displacement encoding with stimulated echoes (DENSE) and cine strain encoding (SENC) imaging. <i>Magnetic Resonance in Medicine</i> , 2009, 62, 77-84.	3.0	30
18	Two-voxel spectroscopy with dynamic B_0 shimming and flip angle adjustment at 7 T in the human motor cortex. <i>NMR in Biomedicine</i> , 2015, 28, 852-860.	2.8	28

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19	HIV-associated CD4+/CD8+ depletion in infancy is associated with neurometabolic reductions in the basal ganglia at age 5 years despite early antiretroviral therapy. <i>Aids</i> , 2016, 30, 1353-1362.	2.2	25
20	Quality of 186 child brain spectra using motion and B0 shim navigated single voxel spectroscopy. <i>Journal of Magnetic Resonance Imaging</i> , 2014, 40, 958-965.	3.4	17
21	Automated tuning of an eight-channel cardiac transceive array at 7 tesla using piezoelectric actuators. <i>Magnetic Resonance in Medicine</i> , 2015, 73, 2390-2397.	3.0	16
22	Optimized saturation pulse train for human first-pass myocardial perfusion imaging at 7T. <i>Magnetic Resonance in Medicine</i> , 2015, 73, 1450-1456.	3.0	13
23	Prospective motion correction and selective reacquisition using volumetric navigators for vessel-encoded arterial spin labeling dynamic angiography. <i>Magnetic Resonance in Medicine</i> , 2016, 76, 1420-1430.	3.0	13
24	Large dynamic range relative B1+ mapping. <i>Magnetic Resonance in Medicine</i> , 2016, 76, 490-499.	3.0	13
25	Diaphragm position can be accurately estimated from the scattering of a parallel transmit RF coil at 7 T. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 2164-2169.	3.0	13
26	A comparison of spectral quality in magnetic resonance spectroscopy data acquired with and without a novel EPI-navigated PRESS sequence in school-aged children with fetal alcohol spectrum disorders. <i>Metabolic Brain Disease</i> , 2014, 29, 323-32.	2.9	12
27	An investigation into the minimum number of tissue groups required for 7T in-silico parallel transmit electromagnetic safety simulations in the human head. <i>Magnetic Resonance in Medicine</i> , 2021, 85, 1114-1122.	3.0	10
28	Inherited Aortopathy Assessment in Relatives of Patients With a Bicuspid Aortic Valve. <i>Journal of the American College of Cardiology</i> , 2017, 69, 904-906.	2.8	8
29	Hexagonal gradient scheme with RF spoiling improves spoiling performance for high-flip-angle fast gradient echo imaging. <i>Magnetic Resonance in Medicine</i> , 2017, 77, 1231-1237.	3.0	7
30	Cardiac gating using scattering of an 8-channel parallel transmit coil at 7T. <i>Magnetic Resonance in Medicine</i> , 2018, 80, 633-640.	3.0	7
31	Navigator-based reacquisition and estimation of motion-corrupted data: Application to multi-echo spin echo for carotid wall MRI. <i>Magnetic Resonance in Medicine</i> , 2020, 83, 2026-2041.	3.0	6
32	Accelerated calibrationless parallel transmit mapping using joint transmit and receive low-rank tensor completion. <i>Magnetic Resonance in Medicine</i> , 2021, 86, 2454-2467.	3.0	6
33	Scattering matrix imaging pulse design for real-time respiration and cardiac motion monitoring. <i>Magnetic Resonance in Medicine</i> , 2019, 82, 2169-2177.	3.0	5
34	Optimization of undersampling parameters for 3D intracranial compressed sensing MR angiography at 7 T. <i>Magnetic Resonance in Medicine</i> , 2022, 88, 880-889.	3.0	5
35	Association Between Sarcomeric Variants in Hypertrophic Cardiomyopathy and Myocardial Oxygenation: Insights From a Novel Oxygen-Sensitive Cardiovascular Magnetic Resonance Approach. <i>Circulation</i> , 2021, 144, 1656-1658.	1.6	4
36	Response to Letter Regarding Article, "Aortic Dilation in Bicuspid Aortic Valve Disease: Flow Pattern Is a Major Contributor and Differs With Valve Fusion Type." <i>Circulation: Cardiovascular Imaging</i> , 2014, 7, 214-214.	2.6	3

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37	Neurofeedback using functional spectroscopy. International Journal of Imaging Systems and Technology, 2014, 24, 138-148.	4.1	2
38	The kinetic energies of left ventricular 4D flow components correlate with established markers of prognosis and represent novel imaging biomarkers in both ischaemic and dilated cardiomyopathy. Journal of Cardiovascular Magnetic Resonance, 2016, 18, O68.	3.3	2
39	Assessment of radio-frequency heating of a parallel transmit coil in a phantom using multi-echo proton resonance frequency shift thermometry. Magnetic Resonance Imaging, 2021, 77, 57-68.	1.8	2