

# 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  
g-index

39  
all docs

39  
docs citations

39  
times ranked

2980  
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimization of undersampling parameters for <sc>3D</sc> intracranial compressed sensing <sc>MR</sc> angiography at 7 T. Magnetic Resonance in Medicine, 2022, 88, 880-889.	3.0	5
2	Motion correction methods for MRS: experts' consensus recommendations. NMR in Biomedicine, 2021, 34, e4364.	2.8	37
3	An investigation into the minimum number of tissue groups required for 7T inâ€silico parallel transmit electromagnetic safety simulations in the human head. Magnetic Resonance in Medicine, 2021, 85, 1114-1122.	3.0	10
4	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
5	Accelerated calibrationless parallel transmit mapping using joint transmit and receive lowâ€rank tensor completion. Magnetic Resonance in Medicine, 2021, 86, 2454-2467.	3.0	6
6	Association Between Sarcomeric Variants in Hypertrophic Cardiomyopathy and Myocardial Oxygenation: Insights From a Novel Oxygen-Sensitive Cardiovascular Magnetic Resonance Approach. Circulation, 2021, 144, 1656-1658.	1.6	4
7	Navigatorâ€based reacquisition and estimation of motionâ€corrupted data: Application to multiâ€echo spin echo for carotid wall MRI. Magnetic Resonance in Medicine, 2020, 83, 2026-2041.	3.0	6
8	Scattering matrix imaging pulse design for realâ€time respiration and cardiac motion monitoring. Magnetic Resonance in Medicine, 2019, 82, 2169-2177.	3.0	5
9	Left Ventricular Flow Analysis. Circulation: Cardiovascular Imaging, 2019, 12, e008130.	2.6	41
10	Cardiac gating using scattering of an 8â€channel parallel transmit coil at 7T. Magnetic Resonance in Medicine, 2018, 80, 633-640.	3.0	7
11	Test-retest variability of left ventricular 4D flow cardiovascular magnetic resonance measurements in healthy subjects. Journal of Cardiovascular Magnetic Resonance, 2018, 20, 15.	3.3	35
12	Differential flow improvements after valve replacements in bicuspid aortic valve disease: a cardiovascular magnetic resonance assessment. Journal of Cardiovascular Magnetic Resonance, 2018, 20, 10.	3.3	37
13	Diaphragm position can be accurately estimated from the scattering of a parallel transmit RF coil at 7 T. Magnetic Resonance in Medicine, 2018, 79, 2164-2169.	3.0	13
14	Inherited Aortopathy Assessment in Relatives of Patients With a Bicuspid Aortic Valve. Journal of the American College of Cardiology, 2017, 69, 904-906.	2.8	8
15	Combined fMRI-MRS acquires simultaneous glutamate and BOLD-fMRI signals in the human brain. NeuroImage, 2017, 155, 113-119.	4.2	106
16	Hexagonal gradient scheme with RF spoiling improves spoiling performance for highâ€flipâ€angle fast gradient echo imaging. Magnetic Resonance in Medicine, 2017, 77, 1231-1237.	3.0	7
17	HIV-associated CD4+/CD8+ depletion in infancy is associated with neurometabolic reductions in the basal ganglia at age 5 years despite early antiretroviral therapy. Aids, 2016, 30, 1353-1362.	2.2	25
18	Prospective motion correction and selective reacquisition using volumetric navigators for vesselâ€encoded arterial spin labeling dynamic angiography. Magnetic Resonance in Medicine, 2016, 76, 1420-1430.	3.0	13

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19	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. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2016, 18, O68.	3.3	2
20	Large dynamic range relative B1+ mapping. <i>Magnetic Resonance in Medicine</i> , 2016, 76, 490-499.	3.0	13
21	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
22	Two-voxel spectroscopy with dynamic B <sub>0</sub> 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
23	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
24	Automated tuning of an eight-channel cardiac transceiver array at 7 tesla using piezoelectric actuators. <i>Magnetic Resonance in Medicine</i> , 2015, 73, 2390-2397.	3.0	16
25	Neurofeedback using functional spectroscopy. <i>International Journal of Imaging Systems and Technology</i> , 2014, 24, 138-148.	4.1	2
26	Quality of 186 child brain spectra using motion and B <sub>0</sub> shim navigated single voxel spectroscopy. <i>Journal of Magnetic Resonance Imaging</i> , 2014, 40, 958-965.	3.4	17
27	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
28	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
29	An In Vivo <sup>1</sup> H 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
30	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
31	Study protocol: the Whitehall II imaging sub-study. <i>BMC Psychiatry</i> , 2014, 14, 159.	2.6	82
32	Real-time motion- and B <sub>0</sub> -correction for LASER-localized spiral-accelerated 3D-MRSI of the brain at 3T. <i>NeuroImage</i> , 2014, 88, 22-31.	4.2	64
33	Aortic Dilation in Bicuspid Aortic Valve Disease. <i>Circulation: Cardiovascular Imaging</i> , 2013, 6, 499-507.	2.6	329
34	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
35	Volumetric navigators for real-time motion correction in diffusion tensor imaging. <i>Magnetic Resonance in Medicine</i> , 2012, 68, 1097-1108.	3.0	54
36	Real-time motion and B <sub>0</sub> 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

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37	Real-time motion and <i>B<sub>0</sub></i> corrected single voxel spectroscopy using volumetric navigators. <i>Magnetic Resonance in Medicine</i> , 2011, 66, 314-323.	3.0	111
38	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
39	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