

Edward J Auerbach

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

78 papers	13,173 citations	36 h-index	83 g-index
83 ext. papers	17,106 ext. citations	5.6 avg, IF	5.94 L-index

#	Paper	IF	Citations
78	A self-decoupled 32-channel receive array for human-brain MRI at 10.5 T. <i>Magnetic Resonance in Medicine</i> , 2021 , 86, 1759-1772	4.4	4
77	In vivo diffusion-weighted MRS using semi-LASER in the human brain at 3T: Methodological aspects and clinical feasibility. <i>NMR in Biomedicine</i> , 2021 , 34, e4206	4.4	3
76	Progress in Imaging the Human Torso at the Ultrahigh Fields of 7 and 10.5T. <i>Magnetic Resonance Imaging Clinics of North America</i> , 2021 , 29, e1-e19	1.6	2
75	Parallel transmit optimized 3D composite adiabatic spectral-spatial pulse for spectroscopy. <i>Magnetic Resonance in Medicine</i> , 2021 , 86, 17-32	4.4	3
74	Bilateral Multiband 4D Flow MRI of the Carotid Arteries at 7T. <i>Magnetic Resonance in Medicine</i> , 2020 , 84, 1947-1960	4.4	3
73	A field-monitoring-based approach for correcting eddy-current-induced artifacts of up to the 2 spatial order in human-connectome-project-style multiband diffusion MRI experiment at 7T: A pilot study. <i>NeuroImage</i> , 2020 , 216, 116861	7.9	4
72	Self-navigation for 3D multishot EPI with data-reference. <i>Magnetic Resonance in Medicine</i> , 2020 , 84, 1747-1762	4.4	7
71	First in-vivo human imaging at 10.5T: Imaging the body at 447 MHz. <i>Magnetic Resonance in Medicine</i> , 2020 , 84, 289-303	4.4	33
70	Ultra-high field (10.5 T) resting state fMRI in the macaque. <i>NeuroImage</i> , 2020 , 223, 117349	7.9	8
69	Changes in the intracellular microenvironment in the aging human brain. <i>Neurobiology of Aging</i> , 2020 , 95, 168-175	5.6	1
68	A Comparison of Methods for High-Spatial-Resolution Diffusion-weighted Imaging in Breast MRI. <i>Radiology</i> , 2020 , 297, 304-312	20.5	14
67	Brain imaging with improved acceleration and SNR at 7 Tesla obtained with 64-channel receive array. <i>Magnetic Resonance in Medicine</i> , 2019 , 82, 495-509	4.4	26
66	Prospective motion and B shim correction for MR spectroscopy in human brain at 7T. <i>Magnetic Resonance in Medicine</i> , 2019 , 82, 1984-1992	4.4	10
65	Nyquist ghost correction of breast diffusion weighted imaging using referenceless methods. <i>Magnetic Resonance in Medicine</i> , 2019 , 81, 2624-2631	4.4	3
64	Human Connectome Project-style resting-state functional MRI at 7 Tesla using radiofrequency parallel transmission. <i>NeuroImage</i> , 2019 , 184, 396-408	7.9	14
63	High-resolution whole-brain diffusion MRI at 7T using radiofrequency parallel transmission. <i>Magnetic Resonance in Medicine</i> , 2018 , 80, 1857-1870	4.4	16
62	Designing 3D selective adiabatic radiofrequency pulses with single and parallel transmission. <i>Magnetic Resonance in Medicine</i> , 2018 , 79, 701-710	4.4	8

61	Quantitative single breath-hold renal arterial spin labeling imaging at 7T. <i>Magnetic Resonance in Medicine</i> , 2018 , 79, 815-825	4.4	8
60	Transverse relaxation time constants of the five major metabolites in human brain measured in vivo using LASER and PRESS at 3 T. <i>Magnetic Resonance in Medicine</i> , 2018 , 79, 1260-1265	4.4	7
59	Apparent diffusion coefficients of the five major metabolites measured in the human brain in vivo at 3T. <i>Magnetic Resonance in Medicine</i> , 2018 , 79, 2896-2901	4.4	10
58	Simultaneous multislice imaging in dynamic cardiac MRI at 7T using parallel transmission. <i>Magnetic Resonance in Medicine</i> , 2017 , 77, 1010-1020	4.4	30
57	Validation and optimization of adiabatic T and T for quantitative imaging of articular cartilage at 3 T. <i>Magnetic Resonance in Medicine</i> , 2017 , 77, 1265-1275	4.4	11
56	Tradeoffs in pushing the spatial resolution of fMRI for the 7T Human Connectome Project. <i>NeuroImage</i> , 2017 , 154, 23-32	7.9	68
55	Simultaneous multislice imaging for native myocardial T mapping: Improved spatial coverage in a single breath-hold. <i>Magnetic Resonance in Medicine</i> , 2017 , 78, 462-471	4.4	24
54	Toward imaging the body at 10.5 tesla. <i>Magnetic Resonance in Medicine</i> , 2017 , 77, 434-443	4.4	54
53	Multi-modal Brain MRI in Subjects with PD and iRBD. <i>Frontiers in Neuroscience</i> , 2017 , 11, 709	5.1	8
52	The Human Connectome Project's neuroimaging approach. <i>Nature Neuroscience</i> , 2016 , 19, 1175-87	25.5	482
51	A generalized slab-wise framework for parallel transmit multiband RF pulse design. <i>Magnetic Resonance in Medicine</i> , 2016 , 75, 1444-56	4.4	20
50	Evaluation of 2D multiband EPI imaging for high-resolution, whole-brain, task-based fMRI studies at 3T: Sensitivity and slice leakage artifacts. <i>NeuroImage</i> , 2016 , 124, 32-42	7.9	104
49	Theoretical and experimental evaluation of multi-band EPI for high-resolution whole brain pCASL Imaging. <i>NeuroImage</i> , 2015 , 106, 170-81	7.9	28
48	Heritability of fractional anisotropy in human white matter: a comparison of Human Connectome Project and ENIGMA-DTI data. <i>NeuroImage</i> , 2015 , 111, 300-11	7.9	159
47	Single-voxel (1)H spectroscopy in the human hippocampus at 3 T using the LASER sequence: characterization of neurochemical profile and reproducibility. <i>NMR in Biomedicine</i> , 2015 , 28, 1209-17	4.4	18
46	High resolution whole brain diffusion imaging at 7T for the Human Connectome Project. <i>NeuroImage</i> , 2015 , 122, 318-31	7.9	114
45	ICA-based artefact removal and accelerated fMRI acquisition for improved resting state network imaging. <i>NeuroImage</i> , 2014 , 95, 232-47	7.9	708
44	Study protocol: The Whitehall II imaging sub-study. <i>BMC Psychiatry</i> , 2014 , 14, 159	4.2	58

43	Cerebral TOF angiography at 7T: Impact of B1 (+) shimming with a 16-channel transceiver array. <i>Magnetic Resonance in Medicine</i> , 2014 , 71, 966-77	4.4	28
42	Seven-tesla time-of-flight angiography using a 16-channel parallel transmit system with power-constrained 3-dimensional spoke radiofrequency pulse design. <i>Investigative Radiology</i> , 2014 , 49, 314-25	10.1	25
41	Mitigating transmit B1 inhomogeneity in the liver at 7T using multi-spoke parallel transmit RF pulse design. <i>Quantitative Imaging in Medicine and Surgery</i> , 2014 , 4, 4-10	3.6	24
40	Dynamically applied B1+ shimming solutions for non-contrast enhanced renal angiography at 7.0 Tesla. <i>Magnetic Resonance in Medicine</i> , 2013 , 69, 114-26	4.4	50
39	In vivo H magnetic resonance spectroscopy in young-adult daily marijuana users. <i>NeuroImage: Clinical</i> , 2013 , 2, 581-589	5.3	36
38	Effects of image reconstruction on fiber orientation mapping from multichannel diffusion MRI: reducing the noise floor using SENSE. <i>Magnetic Resonance in Medicine</i> , 2013 , 70, 1682-9	4.4	132
37	Advances in diffusion MRI acquisition and processing in the Human Connectome Project. <i>NeuroImage</i> , 2013 , 80, 125-43	7.9	596
36	The WU-Minn Human Connectome Project: an overview. <i>NeuroImage</i> , 2013 , 80, 62-79	7.9	2585
35	Evaluation of slice accelerations using multiband echo planar imaging at 3 T. <i>NeuroImage</i> , 2013 , 83, 991-1001	7.9	306
34	Dose-dependent effect of isoflurane on regional cerebral blood flow in anesthetized macaque monkeys. <i>Neuroscience Letters</i> , 2013 , 541, 58-62	3.3	61
33	Resting-state fMRI in the Human Connectome Project. <i>NeuroImage</i> , 2013 , 80, 144-68	7.9	865
32	Pushing spatial and temporal resolution for functional and diffusion MRI in the Human Connectome Project. <i>NeuroImage</i> , 2013 , 80, 80-104	7.9	534
31	Multiband accelerated spin-echo echo planar imaging with reduced peak RF power using time-shifted RF pulses. <i>Magnetic Resonance in Medicine</i> , 2013 , 69, 1261-7	4.4	100
30	Simultaneous multislice multiband parallel radiofrequency excitation with independent slice-specific transmit B1 homogenization. <i>Magnetic Resonance in Medicine</i> , 2013 , 70, 630-8	4.4	55
29	Cardiac imaging at 7 Tesla: Single- and two-spoke radiofrequency pulse design with 16-channel parallel excitation. <i>Magnetic Resonance in Medicine</i> , 2013 , 70, 1210-9	4.4	45
28	Brain dynamic neurochemical changes in dystonic patients: a magnetic resonance spectroscopy study. <i>Movement Disorders</i> , 2013 , 28, 201-9	7	43
27	In vivo noninvasive detection of Brown Adipose Tissue through intermolecular zero-quantum MRI. <i>PLoS ONE</i> , 2013 , 8, e74206	3.7	36
26	Regional neurochemical profiles in the human brain measured by ^1H MRS at 7 T using local B1 $^+$ shimming. <i>NMR in Biomedicine</i> , 2012 , 25, 152-60	4.4	86

25	Localized ¹ H NMR spectroscopy in different regions of human brain in vivo at 7 T: T2 relaxation times and concentrations of cerebral metabolites. <i>NMR in Biomedicine</i> , 2012 , 25, 332-9	4.4	90
24	Short echo-time 3D radial gradient-echo MRI using concurrent dephasing and excitation. <i>Magnetic Resonance in Medicine</i> , 2012 , 67, 428-36	4.4	10
23	Temporally-independent functional modes of spontaneous brain activity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 3131-6	11.5	555
22	The Human Connectome Project: a data acquisition perspective. <i>NeuroImage</i> , 2012 , 62, 2222-31	7.9	1284
21	Contrast enhancement in TOF cerebral angiography at 7 T using saturation and MT pulses under SAR constraints: impact of VERSE and sparse pulses. <i>Magnetic Resonance in Medicine</i> , 2012 , 68, 188-97	4.4	28
20	Toward understanding transverse relaxation in human brain through its field dependence. <i>Magnetic Resonance in Medicine</i> , 2012 , 68, 947-53	4.4	21
19	Multiplexed echo planar imaging for sub-second whole brain fMRI and fast diffusion imaging. <i>PLoS ONE</i> , 2010 , 5, e15710	3.7	889
18	Theoretical and experimental evaluation of continuous arterial spin labeling techniques. <i>Magnetic Resonance in Medicine</i> , 2010 , 63, 438-46	4.4	20
17	Multiband multislice GE-EPI at 7 tesla, with 16-fold acceleration using partial parallel imaging with application to high spatial and temporal whole-brain fMRI. <i>Magnetic Resonance in Medicine</i> , 2010 , 63, 1144-53	4.4	954
16	A 32-channel lattice transmission line array for parallel transmit and receive MRI at 7 tesla. <i>Magnetic Resonance in Medicine</i> , 2010 , 63, 1478-85	4.4	61
15	T1 weighted brain images at 7 Tesla unbiased for Proton Density, T2* contrast and RF coil receive B1 sensitivity with simultaneous vessel visualization. <i>NeuroImage</i> , 2009 , 46, 432-46	7.9	221
14	A geometrically adjustable 16-channel transmit/receive transmission line array for improved RF efficiency and parallel imaging performance at 7 Tesla. <i>Magnetic Resonance in Medicine</i> , 2008 , 59, 590-7	4.4	157
13	Quantitative basal CBF and CBF fMRI of rhesus monkeys using three-coil continuous arterial spin labeling. <i>NeuroImage</i> , 2007 , 34, 1074-83	7.9	26
12	Primary motor area activation during precision-demanding versus simple finger movement. <i>Neurorehabilitation and Neural Repair</i> , 2006 , 20, 361-70	4.7	32
11	Mental maze solving: directional fMRI tuning and population coding in the superior parietal lobule. <i>Experimental Brain Research</i> , 2005 , 165, 273-82	2.3	27
10	fMRI analysis of ankle movement tracking training in subject with stroke. <i>Experimental Brain Research</i> , 2004 , 154, 281-90	2.3	52
9	Electrical stimulation driving functional improvements and cortical changes in subjects with stroke. <i>Experimental Brain Research</i> , 2004 , 154, 450-60	2.3	247
8	Left and right basal ganglia and frontal activity during language generation: contributions to lexical, semantic, and phonological processes. <i>Journal of the International Neuropsychological Society</i> , 2003 , 9, 1061-77	3.1	139

7	Analysis of fMRI and finger tracking training in subjects with chronic stroke. <i>Brain</i> , 2002 , 125, 773-88	11.2	450
6	Semantic monitoring of words with emotional connotation during fMRI: contribution of anterior left frontal cortex. <i>Journal of the International Neuropsychological Society</i> , 2002 , 8, 607-22	3.1	34
5	Relative shift in activity from medial to lateral frontal cortex during internally versus externally guided word generation. <i>Journal of Cognitive Neuroscience</i> , 2001 , 13, 272-83	3.1	126
4	Left-hemisphere processing of emotional connotation during word generation. <i>NeuroReport</i> , 1999 , 10, 2449-55	1.7	49
3	C6- Carbon Cluster Anion: An Infrared Absorption and Resonance Raman Isotopic Study. <i>Journal of Physical Chemistry A</i> , 1997 , 101, 9296-9301	2.8	20
2	Ultra-high field (10.5 T) resting state fMRI in the macaque		1
1	Transmit Field Bias Correction of T1w/T2w Myelin Maps		2