

Tamer S Ibrahim

List of Publications by Year in descending order

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39
papers

1,204
citations

471509

17
h-index

377865

34
g-index

42
all docs

42
docs citations

42
times ranked

1084
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of RF coil excitation on field inhomogeneity at ultra high fields: a field optimized TEM resonator. <i>Magnetic Resonance Imaging</i> , 2001, 19, 1339-1347.	1.8	206
2	Dielectric resonances and B ₁ field inhomogeneity in UHFMRI: computational analysis and experimental findings. <i>Magnetic Resonance Imaging</i> , 2001, 19, 219-226.	1.8	141
3	Application of finite difference time domain method for the design of birdcage RF head coils using multi-port excitations. <i>Magnetic Resonance Imaging</i> , 2000, 18, 733-742.	1.8	92
4	Computational analysis of the high pass birdcage resonator: finite difference time domain simulations for high-field MRI. <i>Magnetic Resonance Imaging</i> , 2000, 18, 835-843.	1.8	74
5	Hippocampal Response to a 24-Month Physical Activity Intervention in Sedentary Older Adults. <i>American Journal of Geriatric Psychiatry</i> , 2017, 25, 209-217.	1.2	63
6	Electromagnetic perspective on the operation of RF coils at 1.5-11.7 Tesla. <i>Magnetic Resonance in Medicine</i> , 2005, 54, 683-690.	3.0	57
7	Understanding and manipulating the RF fields at high field MRI. <i>NMR in Biomedicine</i> , 2009, 22, 927-936.	2.8	44
8	Insight into RF power requirements and B ₁ field homogeneity for human MRI via rigorous FDTD approach. <i>Journal of Magnetic Resonance Imaging</i> , 2007, 25, 1235-1247.	3.4	39
9	Ultrahigh-field MRI whole-slice and localized RF field excitations using the same RF transmit array. <i>IEEE Transactions on Medical Imaging</i> , 2006, 25, 1341-1347.	8.9	37
10	Proposed radiofrequency phased-array excitation scheme for homogenous and localized 7-Tesla whole-body imaging based on full-wave numerical simulations. <i>Magnetic Resonance in Medicine</i> , 2007, 57, 235-242.	3.0	37
11	In-depth study of the electromagnetics of ultrahigh-field MRI. <i>NMR in Biomedicine</i> , 2007, 20, 58-68.	2.8	30
12	Studies of RF shimming techniques with minimization of RF power deposition and their associated temperature changes. <i>Concepts in Magnetic Resonance Part B</i> , 2011, 39B, 11-25.	0.7	30
13	Design and fabrication of a realistic anthropomorphic heterogeneous head phantom for MR purposes. <i>PLoS ONE</i> , 2017, 12, e0183168.	2.5	29
14	Analytical approach to the MR signal. <i>Magnetic Resonance in Medicine</i> , 2005, 54, 677-682.	3.0	27
15	Brain venular pattern by 7T MRI correlates with memory and haemoglobin in sickle cell anaemia. <i>Psychiatry Research - Neuroimaging</i> , 2015, 233, 18-22.	1.8	23
16	Effects of receive-only inserts on specific absorption rate, B ₁ field, and Tx coil performance. <i>Journal of Magnetic Resonance Imaging</i> , 2014, 39, 475-484.	3.4	21
17	Electromagnetic Power Absorption and Temperature Changes due to Brain Machine Interface Operation. <i>Annals of Biomedical Engineering</i> , 2007, 35, 825-834.	2.5	19
18	Experimental and numerical analysis of B ₁ field and SAR with a new transmit array design for 7 T breast MRI. <i>Journal of Magnetic Resonance</i> , 2016, 269, 55-64.	2.1	19

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19	Ultra-high field upper extremity peripheral nerve and non-contrast enhanced vascular imaging. PLoS ONE, 2017, 12, e0175629.	2.5	18
20	Computational and experimental evaluation of the Tic-Tac-Toe RF coil for 7 Tesla MRI. PLoS ONE, 2019, 14, e0209663.	2.5	18
21	Evaluation of MRI RF probes utilizing infrared sensors. IEEE Transactions on Biomedical Engineering, 2006, 53, 963-967.	4.2	16
22	Development of a 7T RF coil system for breast imaging. NMR in Biomedicine, 2017, 30, e3664.	2.8	16
23	Implanted Miniaturized Antenna for Brain Computer Interface Applications: Analysis and Design. PLoS ONE, 2014, 9, e103945.	2.5	15
24	Association of Hippocampal Substructure Resting-State Functional Connectivity with Memory Performance in Older Adults. American Journal of Geriatric Psychiatry, 2018, 26, 690-699.	1.2	15
25	Studies in RF Power Communication, SAR, and Temperature Elevation in Wireless Implantable Neural Interfaces. PLoS ONE, 2013, 8, e77759.	2.5	15
26	Electromagnetic and modeling analyses of an implanted device at 3 and 7 Tesla. Journal of Magnetic Resonance Imaging, 2007, 26, 1362-1367.	3.4	14
27	In-vivo and numerical analysis of the eigenmodes produced by a multi-level Tic-Tac-Toe head transmit array for 7 Tesla MRI. PLoS ONE, 2018, 13, e0206127.	2.5	14
28	Ultra-high field RF coil development for evaluating upper extremity imaging applications. NMR in Biomedicine, 2016, 29, 1768-1779.	2.8	10
29	Applying Deep Learning to Accelerated Clinical Brain Magnetic Resonance Imaging for Multiple Sclerosis. Frontiers in Neurology, 2021, 12, 685276.	2.4	9
30	Dual optimization method of radiofrequency and quasistatic field simulations for reduction of eddy currents generated on 7T radiofrequency coil shielding. Magnetic Resonance in Medicine, 2015, 74, 1461-1469.	3.0	8
31	A new RF transmit coil for foot and ankle imaging at 7T MRI. Magnetic Resonance Imaging, 2018, 45, 1-6.	1.8	7
32	Physical Activity and Cerebral Small Vein Integrity in Older Adults. Medicine and Science in Sports and Exercise, 2019, 51, 1684-1691.	0.4	7
33	Analysis of hippocampal subfields in sickle cell disease using ultrahigh field MRI. NeuroImage: Clinical, 2021, 30, 102655.	2.7	7
34	Improved 7T transmit field homogeneity with reduced electromagnetic power deposition using coupled Tic Tac Toe antennas. Scientific Reports, 2021, 11, 3370.	3.3	7
35	How to design and construct a 3D-printed human head phantom. Journal of 3D Printing in Medicine, 2019, 3, 119-125.	2.0	6
36	Resting-State Function Connectivity Associated With Being a "Morning-Type" Dementia Caregiver and Having Lower Depression Symptom Severity. Journals of Gerontology - Series B Psychological Sciences and Social Sciences, 2020, 76, 1071-1076.	3.9	5

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37	Neuroimaging of Small Vessel Disease in Late-Life Depression. <i>Advances in Experimental Medicine and Biology</i> , 2019, 1192, 95-115.	1.6	5
38	White Matter Integrity Underlying Depressive Symptoms in Dementia Caregivers. <i>American Journal of Geriatric Psychiatry</i> , 2020, 28, 578-582.	1.2	2
39	A comprehensive electromagnetic evaluation of an MRI anthropomorphic head phantom. <i>NMR in Biomedicine</i> , 2021, 34, e4441.	2.8	1