

Steven M Wright

List of Publications by Year in descending order

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43
papers

893
citations

687363

13
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580821

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all docs

43
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43
times ranked

822
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamic ¹³ C MR spectroscopy as an alternative to imaging for assessing cerebral metabolism using hyperpolarized pyruvate in humans. <i>Magnetic Resonance in Medicine</i> , 2022, 87, 1136-1149.	3.0	4
2	Assessing the Feasibility of Dynamic ³¹ P Spectroscopy for Metabolic Studies With a 1.0T Extremity Scanner. <i>IEEE Transactions on Biomedical Engineering</i> , 2022, 69, 1975-1982.	4.2	0
3	A retrofit to enable dynamic steering for transmit arrays without multiple amplifiers. <i>Magnetic Resonance in Medicine</i> , 2021, 85, 3497-3509.	3.0	3
4	A 32-channel receive array coil for bilateral breast imaging and spectroscopy at 7T. <i>Magnetic Resonance in Medicine</i> , 2021, 85, 551-559.	3.0	3
5	Feasibility of Using a 1T Extremity Scanner with a Four-Element Array to Detect ³¹ P in the Human Calf. , 2019, 2019, 6806-6809.		1
6	SERIAL transmit " parallel receive (STxPRx) MR imaging produces acceptable proton image uniformity without compromising field of view or SAR guidelines for human neuroimaging at 9.4 Tesla. <i>Journal of Magnetic Resonance</i> , 2018, 293, 145-153.	2.1	2
7	Automated modification and fusion of voxel models to construct body phantoms with heterogeneous breast tissue: Application to MRI simulations. <i>Journal of Biomedical Graphics and Computing</i> , 2017, 7, 1.	0.2	7
8	Exploration of highly accelerated magnetic resonance elastography using high-density array coils. <i>Quantitative Imaging in Medicine and Surgery</i> , 2017, 7, 195-204.	2.0	0
9	Effects of coplanar shielding for high field MRI. , 2016, 2016, 6250-6253.		4
10	Trap design and construction for high-power multinuclear magnetic resonance experiments. <i>Concepts in Magnetic Resonance Part B</i> , 2016, 46B, 162-168.	0.7	9
11	A Switched-Mode Breast Coil for 7 T MRI Using Forced-Current Excitation. <i>IEEE Transactions on Biomedical Engineering</i> , 2015, 62, 1777-1783.	4.2	10
12	A 16-Channel Receive, Forced Current Excitation Dual-Transmit Coil for Breast Imaging at 7T. <i>PLoS ONE</i> , 2014, 9, e113969.	2.5	14
13	Quadrature transmit coil for breast imaging at 7 tesla using forced current excitation for improved homogeneity. <i>Journal of Magnetic Resonance Imaging</i> , 2014, 40, 1165-1173.	3.4	21
14	An eight-channel T/R head coil for parallel transmit MRI at 3T using ultra-low output impedance amplifiers. <i>Journal of Magnetic Resonance</i> , 2014, 246, 62-68.	2.1	5
15	Eight channel transmit array volume coil using on-coil radiofrequency current sources. <i>Quantitative Imaging in Medicine and Surgery</i> , 2014, 4, 71-8.	2.0	6
16	Rapid slice excitation without B0 gradients using large array coils. <i>Quantitative Imaging in Medicine and Surgery</i> , 2014, 4, 145-51.	2.0	2
17	A 64-Channel Transmitter for Investigating Parallel Transmit MRI. <i>IEEE Transactions on Biomedical Engineering</i> , 2012, 59, 2152-2160.	4.2	21
18	A magnetic resonance (MR) microscopy system using a microfluidically cryo-cooled planar coil. <i>Lab on A Chip</i> , 2011, 11, 2197.	6.0	10

#	ARTICLE	IF	CITATIONS
19	A System for Tracking Interventional Devices using Magnetic Resonance. , 2011, , .		0
20	A fourth gradient to overcome slice dependent phase effects of voxel-sized coils in planar arrays. , 2010, 2010, 6649-52.		0
21	A desktop imaging system for teaching MR engineering. , 2010, 2010, 6653-6.		4
22	Highly parallel transmit/receive systems for dynamic MRI. , 2009, 2009, 4053-6.		4
23	Single echo acquisition MRI using RF encoding. NMR in Biomedicine, 2009, 22, 982-993.	2.8	15
24	Single-point Dixon water-fat imaging using 64-channel single-echo acquisition MRI. Concepts in Magnetic Resonance Part B, 2008, 33B, 152-162.	0.7	1
25	Velocity extraction from spin-tagging MRI images using a weighted least-squares optical flow method. , 2007, , .		2
26	Comparison of local and global arrays for MRI. Concepts in Magnetic Resonance Part B, 2007, 31B, 86-94.	0.7	4
27	Investigation of coil phase compensation in 3D imaging at very high acceleration factors. Journal of Magnetic Resonance Imaging, 2007, 25, 1305-1311.	3.4	5
28	RF current element design for independent control of current amplitude and phase in transmit phased arrays. Concepts in Magnetic Resonance Part B, 2006, 29B, 75-83.	0.7	37
29	Progress in Visualizing Turbulent Flow using Single-Echo Acquisition Imaging. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2006, , .	0.5	0
30	Phase compensation in single echo acquisition imaging. IEEE Engineering in Medicine and Biology Magazine, 2005, 24, 17-22.	0.8	10
31	64-channel array coil for single echo acquisition magnetic resonance imaging. Magnetic Resonance in Medicine, 2005, 54, 386-392.	3.0	103
32	2-D full wave solution for the analysis and design of birdcage coils. Concepts in Magnetic Resonance, 2003, 18B, 15-23.	1.3	14
33	Iterative RF pulse refinement for magnetic resonance imaging. IEEE Transactions on Biomedical Engineering, 2002, 49, 41-48.	4.2	11
34	Full-wave analysis of planar radiofrequency coils and coil arrays with assumed current distribution. Concepts in Magnetic Resonance, 2002, 15, 2-14.	1.3	20
35	A desktop magnetic resonance imaging system. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2001, 13, 177-185.	2.0	24
36	SMASH imaging with an eight element multiplexed RF coil array. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2000, 10, 93-104.	2.0	30

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37	An inductively coupled, doubly tuned resonator for in vivo nuclear magnetic resonance spectroscopy. Review of Scientific Instruments, 1999, 70, 3454-3456.	1.3	4
38	A 16-element phased-array head coil. Magnetic Resonance in Medicine, 1998, 40, 272-279.	3.0	67
39	An automated measurement system for characterization of RF and gradient coil parameters. Journal of Magnetic Resonance Imaging, 1998, 8, 740-747.	3.4	7
40	RF coil arrays in MRI. , 1998, , .		2
41	Theory and application of array coils in MR spectroscopy. , 1997, 10, 394-410.		247
42	Design of Matching Networks for Low Noise Preamplifiers. Magnetic Resonance in Medicine, 1995, 33, 848-852.	3.0	114
43	A four-channel time domain multiplexer: A cost-effective alternative to multiple receivers. Magnetic Resonance in Medicine, 1994, 32, 499-504.	3.0	46