Steven M Wright

List of Publications by Year
in descending order

43	893	687363 13	580821 25
papers	citations	h-index	g-index

43	43	43	822
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Theory and application of array coils in MR spectroscopy. , 1997, 10, 394-410.		247
2	Design of Matching Networks for Low Noise Preamplifiers. Magnetic Resonance in Medicine, 1995, 33, 848-852.	3.0	114
3	64-channel array coil for single echo acquisition magnetic resonance imaging. Magnetic Resonance in Medicine, 2005, 54, 386-392.	3.0	103
4	A 16-element phased-array head coil. Magnetic Resonance in Medicine, 1998, 40, 272-279.	3.0	67
5	A four-channel time domain multiplexer: A cost-effective alternative to multiple receivers. Magnetic Resonance in Medicine, 1994, 32, 499-504.	3.0	46
6	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
7	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
8	A desktop magnetic resonance imaging system. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2001, 13, 177-185.	2.0	24
9	A 64-Channel Transmitter for Investigating Parallel Transmit MRI. IEEE Transactions on Biomedical Engineering, 2012, 59, 2152-2160.	4.2	21
10	Quadrature transmit coil for breast imaging at 7 tesla using forced current excitation for improved homogeneity. Journal of Magnetic Resonance Imaging, 2014, 40, 1165-1173.	3.4	21
11	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
12	Single echo acquisition MRI using RF encoding. NMR in Biomedicine, 2009, 22, 982-993.	2.8	15
13	2-D full wave solution for the analysis and design of birdcage coils. Concepts in Magnetic Resonance, 2003, 18B, 15-23.	1.3	14
14	A 16-Channel Receive, Forced Current Excitation Dual-Transmit Coil for Breast Imaging at 7T. PLoS ONE, 2014, 9, e113969.	2.5	14
15	Iterative RF pulse refinement for magnetic resonance imaging. IEEE Transactions on Biomedical Engineering, 2002, 49, 41-48.	4.2	11
16	Phase compensation in single echo acquisition imaging. IEEE Engineering in Medicine and Biology Magazine, 2005, 24, 17-22.	0.8	10
17	A magnetic resonance (MR) microscopy system using a microfluidically cryo-cooled planar coil. Lab on A Chip, 2011, 11, 2197.	6.0	10
18	A Switched-Mode Breast Coil for 7 T MRI Using Forced-Current Excitation. IEEE Transactions on Biomedical Engineering, 2015, 62, 1777-1783.	4.2	10

#	Article	IF	Citations
19	Trap design and construction for highâ€power multinuclear magnetic resonance experiments. Concepts in Magnetic Resonance Part B, 2016, 46B, 162-168.	0.7	9
20	An automated measurement system for characterization of RF and gradient coil parameters. Journal of Magnetic Resonance Imaging, 1998, 8, 740-747.	3.4	7
21	Automated modification and fusion of voxel models to construct body phantoms with heterogeneous breast tissue: Application to MRI simulations. Journal of Biomedical Graphics and Computing, 2017, 7, 1.	0.2	7
22	Eight channel transmit array volume coil using on-coil radiofrequency current sources. Quantitative Imaging in Medicine and Surgery, 2014, 4, 71-8.	2.0	6
23	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
24	An eight-channel T/R head coil for parallel transmit MRI at 3T using ultra-low output impedance amplifiers. Journal of Magnetic Resonance, 2014, 246, 62-68.	2.1	5
25	An inductively coupled, doubly tuned resonator for in vivo nuclear magnetic resonance spectroscopy. Review of Scientific Instruments, 1999, 70, 3454-3456.	1.3	4
26	Comparison of local and global arrays for MRI. Concepts in Magnetic Resonance Part B, 2007, 31B, 86-94.	0.7	4
27	Highly parallel transmit/receive systems for dynamic MRI. , 2009, 2009, 4053-6.		4
28	A desktop imaging system for teaching MR engineering. , 2010, 2010, 6653-6.		4
29	Effects of coplanar shielding for high field MRI. , 2016, 2016, 6250-6253.		4
30	Dynamic ¹³C MR spectroscopy as an alternative to imaging for assessing cerebral metabolism using hyperpolarized pyruvate in humans. Magnetic Resonance in Medicine, 2022, 87, 1136-1149.	3.0	4
31	A retrofit to enable dynamic steering for transmit arrays without multiple amplifiers. Magnetic Resonance in Medicine, 2021, 85, 3497-3509.	3.0	3
32	A 32â€channel receive array coil for bilateral breast imaging and spectroscopy at 7T. Magnetic Resonance in Medicine, 2021, 85, 551-559.	3.0	3
33	RF coil arrays in MRI. , 1998, , .		2
34	Velocity extraction from spin-tagging MRI images using a weighted least-squares optical flow method. , 2007, , .		2
35	SERIAL transmit â€“ 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. Journal of Magnetic Resonance, 2018, 293, 145-153.	2.1	2
36	Rapid slice excitation without B0 gradients using large array coils. Quantitative Imaging in Medicine and Surgery, 2014, 4, 145-51.	2.0	2

#	Article	IF	Citations
37	Singleâ€point Dixon waterâ€fat imaging using 64â€channel singleâ€echo acquisition MRI. Concepts in Magnetic Resonance Part B, 2008, 33B, 152-162.	0.7	1
38	Feasibility of Using a 1T Extremity Scanner with a Four-Element Array to Detect ³¹P in the Human Calf. , 2019, 2019, 6806-6809.		1
39	A fourth gradient to overcome slice dependent phase effects of voxel-sized coils in planar arrays. , 2010, 2010, 6649-52.		0
40	A System for Tracking Interventional Devices using Magnetic Resonance. , 2011, , .		0
41	Exploration of highly accelerated magnetic resonance elastography using high-density array coils. Quantitative Imaging in Medicine and Surgery, 2017, 7, 195-204.	2.0	0
42	Assessing the Feasibility of Dynamic ³¹P Spectroscopy for Metabolic Studies With a 1.0T Extremity Scanner. IEEE Transactions on Biomedical Engineering, 2022, 69, 1975-1982.	4.2	0
43	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