

Stephan Orzada

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

1,279
citations

361413

20
h-index

414414

32
g-index

60
all docs

60
docs citations

60
times ranked

1121
citing authors

#	ARTICLE	IF	CITATIONS
1	Performance and safety assessment of an integrated transmit array for body imaging at 7T under consideration of specific absorption rate, tissue temperature, and thermal dose. <i>NMR in Biomedicine</i> , 2022, 35, e4656.	2.8	9
2	Local SAR compression with overestimation control to reduce maximum relative SAR overestimation and improve multi-channel RF array performance. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2021, 34, 153-163.	2.0	8
3	Local SAR compression algorithm with improved compression, speed, and flexibility. <i>Magnetic Resonance in Medicine</i> , 2021, 86, 561-568.	3.0	8
4	Performance analysis of integrated RF microstrip transmit antenna arrays with high channel count for body imaging at 7 T. <i>NMR in Biomedicine</i> , 2021, 34, e4515.	2.8	14
5	Post-processing algorithms for specific absorption rate compression. <i>Magnetic Resonance in Medicine</i> , 2021, 86, 2853-2861.	3.0	4
6	Magnetic resonance imaging at ultra-high magnetic field strength: An in vivo assessment of number, size and distribution of pelvic lymph nodes. <i>PLoS ONE</i> , 2020, 15, e0236884.	2.5	5
7	A multitransmit external body array combined with a 1^{H} and 31^{P} endorectal coil to enable a multiparametric and multimetabolic MRI examination of the prostate at 7T. <i>Medical Physics</i> , 2019, 46, 3893-3905.	3.0	6
8	A 32-channel parallel transmit system add-on for 7T MRI. <i>PLoS ONE</i> , 2019, 14, e0222452.	2.5	48
9	USPIO-enhanced MRI of pelvic lymph nodes at 7-T: preliminary experience. <i>European Radiology</i> , 2019, 29, 6529-6538.	4.5	17
10	Development and evaluation of a 16-channel receive-only RF coil to improve 7T ultra-high field body MRI with focus on the spine. <i>Magnetic Resonance in Medicine</i> , 2019, 82, 796-810.	3.0	12
11	An 8/15-channel Tx/Rx head neck RF coil combination with region-specific B_1 + shimming for whole-brain MRI focused on the cerebellum at 7T. <i>Magnetic Resonance in Medicine</i> , 2018, 80, 1252-1265.	3.0	19
12	7T ultra-high field body MR imaging with an 8-channel transmit/32-channel receive radiofrequency coil array. <i>Medical Physics</i> , 2018, 45, 2978-2990.	3.0	32
13	Parallel transmit capability of various RF transmit elements and arrays at 7T MRI. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 1116-1126.	3.0	21
14	Fast and accurate multi-channel mapping based on the TIAMO technique for 7T UHF body MRI. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 2652-2664.	3.0	26
15	Feasibility of aortic valve planimetry at 7T ultrahigh field MRI: Comparison to aortic valve MRI at 3T and 1.5T. <i>European Journal of Radiology Open</i> , 2018, 5, 159-164.	1.6	2
16	An 8-channel transceiver 7-channel receive RF coil setup for high SNR ultrahigh field MR of the shoulder at 7T. <i>Medical Physics</i> , 2017, 44, 6195-6208.	3.0	9
17	Contrast enhanced renal MR angiography at 7 Tesla: How much gadolinium do we need?. <i>European Journal of Radiology</i> , 2017, 86, 76-82.	2.6	7
18	High resolution MR imaging of pelvic lymph nodes at 7 Tesla. <i>Magnetic Resonance in Medicine</i> , 2017, 78, 1020-1028.	3.0	16

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19	A method to approximate maximum local SAR in multichannel transmit MR systems without transmit phase information. <i>Magnetic Resonance in Medicine</i> , 2017, 78, 805-811.	3.0	8
20	Analysis of an Integrated 8-Channel Tx/Rx Body Array for Use as a Body Coil in 7-Tesla MRI. <i>Frontiers in Physics</i> , 2017, 5, .	2.1	16
21	Non-enhanced magnetic resonance imaging of the small bowel at 7 Tesla in comparison to 1.5 Tesla: First steps towards clinical application. <i>Magnetic Resonance Imaging</i> , 2016, 34, 668-673.	1.8	8
22	1 H MR spectroscopic imaging of the prostate at 7 T using spectralâ€špatial pulses. <i>Magnetic Resonance in Medicine</i> , 2016, 75, 933-945.	3.0	16
23	Optimized 31 P MRS in the human brain at 7â€šT with a dedicated RF coil setup. <i>NMR in Biomedicine</i> , 2015, 28, 1570-1578.	2.8	20
24	T1-Weighted Contrast-Enhanced Magnetic Resonance Imaging of the Small Bowel. <i>Investigative Radiology</i> , 2015, 50, 539-547.	6.2	9
25	³¹ P MR spectroscopic imaging of the human prostate at 7 T: T ₁ relaxation times, Nuclear Overhauser Effect, and spectral characterization. <i>Magnetic Resonance in Medicine</i> , 2015, 73, 909-920.	3.0	27
26	Parasitic element based decoupling of 7 tesla MRI coil array. , 2015, , .		4
27	Impact of different meander sizes on the RF transmit performance and coupling of microstrip line elements at 7 T. <i>Medical Physics</i> , 2015, 42, 4542-4552.	3.0	27
28	Investigation of the Saturation Pulse Artifact in Non-Enhanced MR Angiography of the Lower Extremity Arteries at 7 Tesla. <i>PLoS ONE</i> , 2015, 10, e0119845.	2.5	2
29	Feasibility of <i>T</i> ₂ -weighted turbo spin echo imaging of the human prostate at 7 tesla. <i>Magnetic Resonance in Medicine</i> , 2014, 71, 1711-1719.	3.0	36
30	Impact of repetitive exposure to strong static magnetic fields on pregnancy and embryonic development of mice. <i>Journal of Magnetic Resonance Imaging</i> , 2014, 39, 691-699.	3.4	16
31	Ultrahigh-Field Imaging of the Biliary Tract at 7 T. <i>Investigative Radiology</i> , 2014, 49, 346-353.	6.2	7
32	Initial Evaluation of Nonâ€šContrast-Enhanced Magnetic Resonance Angiography in Patients With Peripheral Arterial Occlusive Disease at 7 T. <i>Investigative Radiology</i> , 2014, 49, 331-338.	6.2	13
33	Phosphorus Magnetic Resonance Spectroscopic Imaging at 7 T in Patients With Prostate Cancer. <i>Investigative Radiology</i> , 2014, 49, 363-372.	6.2	20
34	Comparison of Fat Saturation Techniques for Single-Shot Fast Spin Echo Sequences for 7-T Body Imaging. <i>Investigative Radiology</i> , 2014, 49, 101-108.	6.2	4
35	Hip imaging of avascular necrosis at 7 Tesla compared with 3 Tesla. <i>Skeletal Radiology</i> , 2014, 43, 623-632.	2.0	19
36	Repetitive exposure of mice to strong static magnetic fields in utero does not impair fertility in adulthood but may affect placental weight of offspring. <i>Journal of Magnetic Resonance Imaging</i> , 2014, 39, 683-690.	3.4	8

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37	Image quality and cancer visibility of T2-weighted Magnetic Resonance Imaging of the prostate at 7 Tesla. <i>European Radiology</i> , 2014, 24, 1950-1958.	4.5	32
38	Sequence Comparison for Non-Enhanced MRA of the Lower Extremity Arteries at 7 Tesla. <i>PLoS ONE</i> , 2014, 9, e86274.	2.5	14
39	Seven-Tesla MRI of the female pelvis. <i>European Radiology</i> , 2013, 23, 2364-2373.	4.5	12
40	Contrast-enhanced ultra-high-field liver MRI: A feasibility trial. <i>European Journal of Radiology</i> , 2013, 82, 760-767.	2.6	22
41	MR safety assessment of potential RF heating from cranial fixation plates at 7 T. <i>Medical Physics</i> , 2013, 40, 042302.	3.0	33
42	Magnetic Resonance Imaging of Cranial Nerves at 7 Tesla. <i>Clinical Neuroradiology</i> , 2013, 23, 17-23.	1.9	20
43	Bilateral hip imaging at 7 Tesla using a multi-channel transmit technology: initial results presenting anatomical detail in healthy volunteers and pathological changes in patients with avascular necrosis of the femoral head. <i>Skeletal Radiology</i> , 2013, 42, 1555-1563.	2.0	28
44	Mitigation of B_1 inhomogeneity on single-channel transmit systems with TIAMO. <i>Magnetic Resonance in Medicine</i> , 2013, 70, 290-294.	3.0	14
45	First-pass contrast-enhanced renal MRA at 7 Tesla: initial results. <i>European Radiology</i> , 2013, 23, 1059-1066.	4.5	21
46	Nonenhanced Magnetic Resonance Angiography of the Lower Extremity Vessels at 7 Tesla. <i>Investigative Radiology</i> , 2013, 48, 525-534.	6.2	9
47	Cardiac magnetic resonance: is phonocardiogram gating reliable in velocity-encoded phase contrast imaging?. <i>European Radiology</i> , 2012, 22, 2679-2687.	4.5	4
48	Time-interleaved acquisition of modes: An analysis of SAR and image contrast implications. <i>Magnetic Resonance in Medicine</i> , 2012, 67, 1033-1041.	3.0	30
49	In vivo 31P MR spectroscopic imaging of the human prostate at 7 T: Safety and feasibility. <i>Magnetic Resonance in Medicine</i> , 2012, 68, 1683-1695.	3.0	34
50	Cardiac MRI: evaluation of phonocardiogram-gated cine imaging for the assessment of global and regional left ventricular function in clinical routine. <i>European Radiology</i> , 2012, 22, 559-568.	4.5	21
51	Evaluation of Hardware-related Geometrical Distortion in Structural MRI at 7 Tesla for Image-guided Applications in Neurosurgery. <i>Academic Radiology</i> , 2011, 18, 910-916.	2.5	37
52	Multi-echo fMRI of the cortical laminae in humans at 7T. <i>NeuroImage</i> , 2011, 56, 1276-1285.	4.2	152
53	Dynamic Contrast-Enhanced Renal MRI at 7 Tesla. <i>Investigative Radiology</i> , 2011, 46, 425-433.	6.2	37
54	Open design eight-channel transmit/receive coil for high-resolution and real-time ankle imaging at 7 T. <i>Medical Physics</i> , 2011, 38, 1162-1167.	3.0	15

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55	Renal imaging at 7 Tesla: preliminary results. <i>European Radiology</i> , 2011, 21, 841-849.	4.5	27
56	Design and comparison of two eight-channel transmit/receive radiofrequency arrays for <i>in vivo</i> rodent imaging on a 7 T human whole-body MRI system. <i>Medical Physics</i> , 2010, 37, 2225-2232.	3.0	8
57	RF excitation using time interleaved acquisition of modes (TIAMO) to address B_1 inhomogeneity in high-field MRI. <i>Magnetic Resonance in Medicine</i> , 2010, 64, 327-333.	3.0	115
58	In vivo MRI of the human torso at 7 Tesla using multi-channel transmit. , 2010, , .		0
59	An Eight-Channel Phased Array RF Coil for Spine MR Imaging at 7 T. <i>Investigative Radiology</i> , 2009, 44, 734-740.	6.2	71
60	A Fast Technique to Calculate the First Physical Modes of Conductors over a Wide Frequency Range. , 2005, , .		0