William Allyn Grissom

List of Publications by Year
in descending order

72 papers	1,649 citations	304368 22 h-index	329751 37 g-index
74 all docs	74 docs citations	74 times ranked	1408 citing authors

#	Article	IF	Citations
1	External Dynamic InTerference Estimation and Removal (EDITER) for low field MRI. Magnetic Resonance in Medicine, 2022, 87, 614-628.	1.9	23
2	Dual-Tuned Lattice Balun for Multi-Nuclear MRI and MRS. IEEE Transactions on Medical Imaging, 2022, 41, 1420-1430.	5.4	8
3	Continuous cardiac thermometry via simultaneous catheter tracking and undersampled radial golden angle acquisition for radiofrequency ablation monitoring. Scientific Reports, 2022, 12, 4006.	1.6	3
4	Selective excitation localized by the Bloch–Siegert shift and a B1+ gradient. Magnetic Resonance in Medicine, 2022, 88, 1081-1097.	1.9	4
5	A reduced aperture allows for transcranial focus localization at lower pressure. JASA Express Letters, 2022, 2, 062001.	0.5	0
6	Ultra‐high spatial resolution BOLD fMRI in humans using combined segmented‐accelerated VFA‐FLEET with a recursive RF pulse design. Magnetic Resonance in Medicine, 2021, 85, 120-139.	1.9	15
7	k‐Space Domain Parallel Transmit Pulse Design. Magnetic Resonance in Medicine, 2021, 85, 2568-2579.	1.9	3
8	Bidirectional and state-dependent modulation of brain activity by transcranial focused ultrasound in non-human primates. Brain Stimulation, 2021, 14, 261-272.	0.7	35
9	Hybrid‐pair ratio adjustable power splitters for add‐on RF shimming and array‐compressed parallel transmission. Magnetic Resonance in Medicine, 2021, 86, 3382-3390.	1.9	3
10	Patient-Specific Stereotactic Frame for Transcranial Ultrasound Therapy. , 2021, , .		2
11	Simultaneous multislice MRI thermometry with a single coil using incoherent blipped‐controlled aliasing. Magnetic Resonance in Medicine, 2020, 83, 479-491.	1.9	6
12	High‐fidelity, high‐isotropic‐resolution diffusion imaging through gSlider acquisition with and T 1 corrections and integrated ΔB 0 / Rx shim array. Magnetic Resonance in Medicine, 2020, 83, 56-67.	1.9	31
13	Identifying the Role of Block Length in Neural Heat Block to Reduce Temperatures During Infrared Neural Inhibition. Lasers in Surgery and Medicine, 2020, 52, 259-275.	1.1	14
14	Designing parallel transmit head coil arrays based on radiofrequency pulse performance. Magnetic Resonance in Medicine, 2020, 83, 2331-2342.	1.9	9
15	Reducing temperature errors in transcranial MR‐guided focused ultrasound using a reduced‐field‐of‐view sequence. Magnetic Resonance in Medicine, 2020, 83, 1016-1024.	1.9	3
16	Accelerated spin‐echo functional MRI using multisection excitation by simultaneous spin‐echo interleaving (MESSI) with complex‐encoded generalized slice dithered enhanced resolution (cgSlider) simultaneous multislice echo‐planar imaging. Magnetic Resonance in Medicine, 2020, 84, 206-220.	1.9	8
17	Rapid quantitative imaging of high intensity ultrasonic pressure fields. Journal of the Acoustical Society of America, 2020, 148, 660-677.	0.5	5
18	Temporal differences (TED) compressed sensing: a method for fast MRgHIFU temperature imaging. NMR in Biomedicine, 2020, 33, e4352.	1.6	3

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19	Low‐rank plus sparse compressed sensing for accelerated proton resonance frequency shift MR temperature imaging. Magnetic Resonance in Medicine, 2019, 81, 3555-3566.	1.9	7
20	On the accuracy of optically tracked transducers for image-guided transcranial ultrasound. International Journal of Computer Assisted Radiology and Surgery, 2019, 14, 1317-1327.	1.7	25
21	Considerations for ultrasound exposure during transcranial MR acoustic radiation force imaging. Scientific Reports, 2019, 9, 16235.	1.6	28
22	Multi‐echo MR thermometry using iterative separation of baseline water and fat images. Magnetic Resonance in Medicine, 2019, 81, 2385-2398.	1.9	17
23	Machine learning RF shimming: Prediction by iteratively projected ridge regression. Magnetic Resonance in Medicine, 2018, 80, 1871-1881.	1.9	25
24	Tailored spiral in‐out spectral‐spatial water suppression pulses for magnetic resonance spectroscopic imaging. Magnetic Resonance in Medicine, 2018, 79, 31-40.	1.9	14
25	Ghost reduction in echo‐planar imaging by joint reconstruction of images and line‐to‐line delays and phase errors. Magnetic Resonance in Medicine, 2018, 79, 3114-3121.	1.9	7
26	Volumetric MRI thermometry using a three‐dimensional stack‐of‐stars echo‐planar imaging pulse sequence. Magnetic Resonance in Medicine, 2018, 79, 2003-2013.	1.9	18
27	Ratio‐adjustable power splitters for array‐compressed parallel transmission. Magnetic Resonance in Medicine, 2018, 79, 2422-2431.	1.9	8
28	Traveling‐wave meets standing‐wave: A simulation study using pair‐of‐transverse‐dipole‐ring coils for adjustable longitudinal coverage in ultra‐high field <scp>MRI</scp>. Concepts in Magnetic Resonance Part B, 2018, 48B, .	0.3	5
29	Self-decoupled radiofrequency coils for magnetic resonance imaging. Nature Communications, 2018, 9, 3481.	5.8	60
30	New resonator geometries for ICE decoupling of loop arrays. Journal of Magnetic Resonance, 2017, 277, 59-67.	1.2	13
31	Improved traveling-wave efficiency in 7 T human MRI using passive local loop and dipole arrays. Magnetic Resonance Imaging, 2017, 39, 103-109.	1.0	12
32	Dual‐echo Z‐shimmed proton resonance frequency‐shift magnetic resonance thermometry near metallic ablation probes: Technique and temperature precision. Magnetic Resonance in Medicine, 2017, 78, 2299-2306.	1.9	8
33	Spatially-segmented undersampled MRI temperature reconstruction for transcranial MR-guided focused ultrasound. Journal of Therapeutic Ultrasound, 2017, 5, 13.	2.2	5
34	MRI temperature map reconstruction directly from k-space with compensation for heating-induced geometric distortions. AIP Conference Proceedings, 2017, , .	0.3	0
35	Advancing RF pulse design using an open‐competition format: Report from the 2015 ISMRM challenge. Magnetic Resonance in Medicine, 2017, 78, 1352-1361.	1.9	21
36	Joint design of large‐tip‐angle parallel RF pulses and blipped gradient trajectories. Magnetic Resonance in Medicine, 2016, 75, 1198-1208.	1.9	25

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37	Experimental implementation of array‑compressed parallel transmission at 7 tesla. Magnetic Resonance in Medicine, 2016, 75, 2545-2552.	1.9	11
38	Array‑compressed parallel transmit pulse design. Magnetic Resonance in Medicine, 2016, 76, 1158-1169.	1.9	21
39	Open-source, small-animal magnetic resonance-guided focused ultrasound system. Journal of Therapeutic Ultrasound, 2016, 4, 22.	2.2	23
40	Introduction to Functional MRI Hardware. Neuromethods, 2016, , 29-67.	0.2	2
41	Optimizing the ICE decoupling element distance to improve monopole antenna arrays for 7 Tesla MRI. Magnetic Resonance Imaging, 2016, 34, 1264-1268.	1.0	2
42	Root‑flipped multiband refocusing pulses. Magnetic Resonance in Medicine, 2016, 75, 227-237.	1.9	29
43	gr-MRI: A software package for magnetic resonance imaging using software defined radios. Journal of Magnetic Resonance, 2016, 270, 47-55.	1.2	25
44	Correcting heat‑induced chemical shift distortions in proton resonance frequency‑shift thermometry. Magnetic Resonance in Medicine, 2016, 76, 172-182.	1.9	16
45	Trajectory Auto‑Corrected image reconstruction. Magnetic Resonance in Medicine, 2016, 76, 757-768.	1.9	17
46	Bloch‑Siegert B1-Mapping Improves Accuracy and Precision of Longitudinal Relaxation Measurements in the Breast at 3 T. Tomography, 2016, 2, 250-259.	0.8	13
47	Abstract A086: Real-time in vivo characterization of spatiotemporal immunotherapeutic response to high intensity focused ultrasound with a novel NF-kB reporter model of human breast cancer. , 2016, , .		0
48	Improved k-space-based MR thermometry by joint PRF phase shift and T1/T2* attenuation estimation. Journal of Therapeutic Ultrasound, 2015, 3, .	2.2	0
49	Accelerated MRI thermometry by direct estimation of temperature from undersampled k-space data. Magnetic Resonance in Medicine, 2015, 73, 1914-1925.	1.9	36
50	Low peak power multiband spokes pulses for B_1^+ inhomogeneity‑compensated simultaneous multislice excitation in high field MRI. Magnetic Resonance in Medicine, 2015, 74, 747-755.	1.9	31
51	Regularized estimation of Bloch-Siegert |B₁⁺| maps in MRI. , 2014, , .		0
52	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si48.gif" overflow="scroll"><mml:mrow><mml:mo stretchy="false">|</mml:mo><mml:msubsup><mml:mrow><mml:mi>B</mml:mi></mml:mrow><mml:mrow><mml:mn>1</mml:mn></mml:mrow><mml:mrow><mml:mo stretchy="false">|</mml:mo></mml:mrow></mml:math>-selective excitation pulse design using the Shinnar‑Le Roux algorithm. Journal of Magnetic Resonance, 2014, 242, 189-196.	1.2	4
53	Highly‑accelerated Bloch‑Siegert mapping using joint autocalibrated parallel image reconstruction. Magnetic Resonance in Medicine, 2014, 71, 1470-1477.	1.9	9
54	Iterative Method for Predistortion of MRI Gradient Waveforms. IEEE Transactions on Medical Imaging, 2014, 33, 1641-1647.	5.4	25

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55	Comparison of temperature processing methods for monitoring focused ultrasound ablation in the brain. Journal of Magnetic Resonance Imaging, 2013, 38, 1462-1471.	1.9	35
56	Improved encoding pulses for Bloch–Siegert mapping. Journal of Magnetic Resonance, 2013, 226, 79-87.	1.2	14
57	Nonuniform and multidimensional Shinnar–Le Roux RF pulse design method. Magnetic Resonance in Medicine, 2012, 68, 690-702.	1.9	13
58	Small–tip–angle spokes pulse design using interleaved greedy and local optimization methods. Magnetic Resonance in Medicine, 2012, 68, 1553-1562.	1.9	65
59	VERSE–guided numerical RF pulse design: A fast method for peak RF power control. Magnetic Resonance in Medicine, 2012, 67, 353-362.	1.9	11
60	Reweighted ℓ_1 referenceless PRF shift thermometry. Magnetic Resonance in Medicine, 2010, 64, 1068-1077.	1.9	42
61	Minimum envelope roughness pulse design for reduced amplifier distortion in parallel excitation. Magnetic Resonance in Medicine, 2010, 64, 1432-1439.	1.9	18
62	Improving high-field MRI using parallel excitation. Imaging in Medicine, 2010, 2, 675-693.	0.0	14
63	Hybrid referenceless and multibaseline subtraction MR thermometry for monitoring thermal therapies in moving organs. Medical Physics, 2010, 37, 5014-5026.	1.6	96
64	Regularized referenceless temperature estimation in PRF-shift MR thermometry. , 2009, , .		4
65	Fast Large-Tip-Angle Multidimensional and Parallel RF Pulse Design in MRI. IEEE Transactions on Medical Imaging, 2009, 28, 1548-1559.	5.4	58
66	Spectral–spatial pulse design for through–plane phase precompensatory slice selection in T–weighted functional MRI. Magnetic Resonance in Medicine, 2009, 61, 1137-1147.	1.9	22
67	Time–optimal design for multidimensional and parallel transmit variable–rate selective excitation. Magnetic Resonance in Medicine, 2009, 61, 1471-1479.	1.9	33
68	Maximum linear–phase spectral–spatial radiofrequency pulses for fat–suppressed proton resonance frequency–shift MR Thermometry. Magnetic Resonance in Medicine, 2009, 62, 1242-1250.	1.9	24
69	Additive angle method for fast large-tip-angle RF pulse design in parallel excitation. Magnetic Resonance in Medicine, 2008, 59, 779-787.	1.9	44
70	Reduction of transmitterB1 inhomogeneity with transmit SENSE slice-select pulses. Magnetic Resonance in Medicine, 2007, 57, 842-847.	1.9	108
71	Joint design of trajectory and RF pulses for parallel excitation. Magnetic Resonance in Medicine, 2007, 58, 598-604.	1.9	29
72	Spatial domain method for the design of RF pulses in multicoil parallel excitation. Magnetic Resonance in Medicine, 2006, 56, 620-629.	1.9	282