Steen Moeller

List of Publications by Year
in descending order

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72 papers	12,305 citations	147566 31 h-index	155451 55 g-index
75 all docs	75 docs citations	75 times ranked	10651 citing authors

#	Article	IF	Citations
1	Resting-state fMRI in the Human Connectome Project. NeuroImage, 2013, 80, 144-168.	2.1	1,367
2	Multiband multislice GEâ€EPI at 7 tesla, with 16â€fold acceleration using partial parallel imaging with application to high spatial and temporal wholeâ€brain fMRI. Magnetic Resonance in Medicine, 2010, 63, 1144-1153.	1.9	1,329
3	Multiplexed Echo Planar Imaging for Sub-Second Whole Brain FMRI and Fast Diffusion Imaging. PLoS ONE, 2010, 5, e15710.	1.1	1,164
4	ICA-based artefact removal and accelerated fMRI acquisition for improved resting state network imaging. NeuroImage, 2014, 95, 232-247.	2.1	1,148
5	Advances in diffusion MRI acquisition and processing in the Human Connectome Project. NeuroImage, 2013, 80, 125-143.	2.1	851
6	The Human Connectome Project's neuroimaging approach. Nature Neuroscience, 2016, 19, 1175-1187.	7.1	825
7	Pushing spatial and temporal resolution for functional and diffusion MRI in the Human Connectome Project. NeuroImage, 2013, 80, 80-104.	2.1	769
8	Temporally-independent functional modes of spontaneous brain activity. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 3131-3136.	3.3	696
9	Evaluation of slice accelerations using multiband echo planar imaging at 3T. NeuroImage, 2013, 83, 991-1001.	2.1	442
10	B1 destructive interferences and spatial phase patterns at 7 T with a head transceiver array coil. Magnetic Resonance in Medicine, 2005, 54, 1503-1518.	1.9	416
11	Transmit and receive transmission line arrays for 7 Tesla parallel imaging. Magnetic Resonance in Medicine, 2005, 53, 434-445.	1.9	374
12	Extending the Human Connectome Project across ages: Imaging protocols for the Lifespan Development and Aging projects. NeuroImage, 2018, 183, 972-984.	2.1	290
13	Scanâ€specific robust artificialâ€neuralâ€networks for kâ€space interpolation (RAKI) reconstruction: Databaseâ€free deep learning for fast imaging. Magnetic Resonance in Medicine, 2019, 81, 439-453.	1.9	253
14	Heritability of fractional anisotropy in human white matter: A comparison of Human Connectome Project and ENIGMA-DTI data. NeuroImage, 2015, 111, 300-311.	2.1	227
15	Deep-Learning Methods for Parallel Magnetic Resonance Imaging Reconstruction: A Survey of the Current Approaches, Trends, and Issues. IEEE Signal Processing Magazine, 2020, 37, 128-140.	4.6	213
16	A geometrically adjustable 16â€channel transmit/receive transmission line array for improved RF efficiency and parallel imaging performance at 7 Tesla. Magnetic Resonance in Medicine, 2008, 59, 590-597.	1.9	181
17	Evaluation of 2D multiband EPI imaging for high-resolution, whole-brain, task-based fMRI studies at 3T: Sensitivity and slice leakage artifacts. NeuroImage, 2016, 124, 32-42.	2.1	170
18	Selfâ€supervised learning of physicsâ€guided reconstruction neural networks without fully sampled reference data. Magnetic Resonance in Medicine, 2020, 84, 3172-3191.	1.9	133

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19	Multiband accelerated spinâ€echo echo planar imaging with reduced peak RF power using timeâ€shifted RF pulses. Magnetic Resonance in Medicine, 2013, 69, 1261-1267.	1.9	126
20	Tradeoffs in pushing the spatial resolution of fMRI for the 7T Human Connectome Project. NeuroImage, 2017, 154, 23-32.	2.1	117
21	Fusion in diffusion MRI for improved fibre orientation estimation: An application to the 3T and 7T data of the Human Connectome Project. NeuroImage, 2016, 134, 396-409.	2.1	91
22	Study protocol: the Whitehall II imaging sub-study. BMC Psychiatry, 2014, 14, 159.	1.1	82
23	A 32â€channel lattice transmission line array for parallel transmit and receive MRI at 7 tesla. Magnetic Resonance in Medicine, 2010, 63, 1478-1485.	1.9	80
24	Lowering the thermal noise barrier in functional brain mapping with magnetic resonance imaging. Nature Communications, 2021, 12, 5181.	5.8	68
25	Simultaneous multislice multiband parallel radiofrequency excitation with independent slice-specific transmit B1 homogenization. Magnetic Resonance in Medicine, 2013, 70, 630-638.	1.9	63
26	Simultaneous multi-slice Turbo-FLASH imaging with CAIPIRINHA for whole brain distortion-free pseudo-continuous arterial spin labeling at 3 and 7 T. NeuroImage, 2015, 113, 279-288.	2.1	57
27	NOise reduction with DIstribution Corrected (NORDIC) PCA in dMRI with complex-valued parameter-free locally low-rank processing. NeuroImage, 2021, 226, 117539.	2.1	57
28	Brain imaging with improved acceleration and SNR at 7 Tesla obtained with 64â€channel receive array. Magnetic Resonance in Medicine, 2019, 82, 495-509.	1.9	53
29	Dense Recurrent Neural Networks for Accelerated MRI: History-Cognizant Unrolling of Optimization Algorithms. IEEE Journal on Selected Topics in Signal Processing, 2020, 14, 1280-1291.	7.3	51
30	Functional Sensitivity of 2D Simultaneous Multi-Slice Echo-Planar Imaging: Effects of Acceleration on g-factor and Physiological Noise. Frontiers in Neuroscience, 2017, 11, 158.	1.4	45
31	Self-Supervised Physics-Based Deep Learning MRI Reconstruction Without Fully-Sampled Data. , 2020, , .		39
32	Simultaneous multislice imaging in dynamic cardiac MRI at 7T using parallel transmission. Magnetic Resonance in Medicine, 2017, 77, 1010-1020.	1.9	37
33	Theoretical and experimental evaluation of multi-band EPI for high-resolution whole brain pCASL Imaging. NeuroImage, 2015, 106, 170-181.	2.1	36
34	A Comparison of Methods for High-Spatial-Resolution Diffusion-weighted Imaging in Breast MRI. Radiology, 2020, 297, 304-312.	3.6	33
35	Application of parallel imaging to fMRI at 7 Tesla utilizing a high 1D reduction factor. Magnetic Resonance in Medicine, 2006, 56, 118-129.	1.9	32
36	Simultaneous multislice imaging for native myocardial T₁ mapping: Improved spatial coverage in a single breath-hold. Magnetic Resonance in Medicine, 2017, 78, 462-471.	1.9	32

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37	Highâ€resolution wholeâ€brain diffusion MRI at 7T using radiofrequency parallel transmission. Magnetic Resonance in Medicine, 2018, 80, 1857-1870.	1.9	31
38	Accelerated coronary MRI with sRAKI: A database-free self-consistent neural network k-space reconstruction for arbitrary undersampling. PLoS ONE, 2020, 15, e0229418.	1.1	25
39	Human Connectome Project-style resting-state functional MRI at 7 Tesla using radiofrequency parallel transmission. NeuroImage, 2019, 184, 396-408.	2.1	22
40	Diffusion Imaging in the Post HCP Era. Journal of Magnetic Resonance Imaging, 2021, 54, 36-57.	1.9	22
41	Ultra-high field parallel imaging of the superior parietal lobule during mental maze solving. Experimental Brain Research, 2008, 187, 551-561.	0.7	19
42	Phaseâ€cycled simultaneous multislice balanced SSFP imaging with CAIPIRINHA for efficient banding reduction. Magnetic Resonance in Medicine, 2016, 76, 1764-1774.	1.9	16
43	Selfâ€navigation for 3D multishot EPI with dataâ€reference. Magnetic Resonance in Medicine, 2020, 84, 1747-1762.	1.9	16
44	Estimation of the CSAâ€ODF using Bayesian compressed sensing of multiâ€shell HARDI. Magnetic Resonance in Medicine, 2014, 72, 1471-1485.	1.9	15
45	Autocalibrated multiband CAIPIRINHA with throughâ€time encoding: Proof of principle and application to cardiac tissue phase mapping. Magnetic Resonance in Medicine, 2019, 81, 1016-1030.	1.9	15
46	A field-monitoring-based approach for correcting eddy-current-induced artifacts of up to the 2nd spatial order in human-connectome-project-style multiband diffusion MRI experiment at 7T: A pilot study. NeuroImage, 2020, 216, 116861.	2.1	13
47	Multiâ€mask selfâ€supervised learning for physicsâ€guided neural networks in highly accelerated magnetic resonance imaging. NMR in Biomedicine, 2022, 35, .	1.6	12
48	Multi-scale locally low-rank noise reduction for high-resolution dynamic quantitative cardiac MRI. , 2017, 2017, 1473-1476.		11
49	A selfâ€decoupled 32â€channel receive array for humanâ€brain MRI at 10.5 T. Magnetic Resonance in Medicine, 2021, 86, 1759-1772.	1.9	11
50	Improved simultaneous multislice cardiac MRI using readout concatenated kâ€space SPIRiT (ROCKâ€SPIRiT). Magnetic Resonance in Medicine, 2021, 85, 3036-3048.	1.9	10
51	Self-Supervised Physics-Guided Deep Learning Reconstruction for High-Resolution 3D LGE CMR. , 2021, , .		10
52	20-fold Accelerated 7T fMRI Using Referenceless Self-Supervised Deep Learning Reconstruction. , 2021, 2021, 3765-3769.		10
53	Ground-Truth Free Multi-Mask Self-Supervised Physics-Guided Deep Learning in Highly Accelerated MRI. , 2021, , .		8
54	High Magnetic Fields for Imaging Cerebral Morphology, Function, and Biochemistry. Biological Magnetic Resonance, 2006, , 285-342.	0.4	8

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55	2D Pulses using spatially dependent frequency sweeping. Magnetic Resonance in Medicine, 2016, 76, 1364-1374.	1.9	7
56	Nyquist ghost correction of breast diffusion weighted imaging using referenceless methods. Magnetic Resonance in Medicine, 2019, 81, 2624-2631.	1.9	7
57	Bilateral Multiband 4D Flow MRI of the Carotid Arteries at 7T. Magnetic Resonance in Medicine, 2020, 84, 1947-1960.	1.9	7
58	Accelerated Simultaneous Multi-Slice MRI using Subject-Specific Convolutional Neural Networks. , 2018, 2018, 1636-1640.		6
59	Scan-Specific Residual Convolutional Neural Networks for Fast MRI Using Residual RAKI. , 2019, , .		6
60	Improved Regularized Reconstruction for Simultaneous Multi-Slice Cardiac MRI T₁ Mapping. , 2019, 2019, .		6
61	Improved Simultaneous Multi-Slice Functional MRI Using Self-supervised Deep Learning. , 2021, , .		6
62	Residual RAKI: A hybrid linear and non-linear approach for scan-specific k-space deep learning. NeuroImage, 2022, 256, 119248.	2.1	6
63	High-Fidelity Accelerated MRI Reconstruction by Scan-Specific Fine-Tuning of Physics-Based Neural Networks. , 2020, 2020, 1481-1484.		4
64	Improved Simultaneous Multi-Slice Imaging for Perfusion Cardiac MRI Using Outer Volume Suppression and Regularized Reconstruction. , 2020, , .		4
65	Distributed Memory-Efficient Physics-Guided Deep Learning Reconstruction for Large-Scale 3d Non-Cartesian MRI. , 2022, , .		4
66	Comparison of Neural Network Architectures for Physics-Driven Deep Learning MRI Reconstruction. , 2019, , .		3
67	Selfâ€calibrated interpolation of nonâ€Cartesian data with GRAPPA in parallel imaging. Magnetic Resonance in Medicine, 2020, 83, 1837-1850.	1.9	3
68	Instabilities in Conventional Multi-Coil MRI Reconstruction with Small Adversarial Perturbations. , 2021, , .		3
69	Improved <scp>TSE</scp> imaging at <scp>ultrahigh</scp> field using nonlocalized efficiency <scp>RF</scp> shimming and acquisition modes optimized for refocused echoes (<scp>AMORE</scp>). Magnetic Resonance in Medicine, 2022, 88, 1702-1719.	1.9	3
70	Improved Supervised Training of Physics-Guided Deep Learning Image Reconstruction with Multi-Masking. , 2021, , .		2
71	Compressed Sensing MRI with â„“₁-Wavelet Reconstruction Revisited Using Modern Data Science Tools. , 2021, 2021, 3596-3600.		2
72	Efficient Training of 3D Unrolled Neural Networks for MRI Reconstruction Using Small Databases. , 2021, , .		1