Klaas Paul Pruessmann

List of Publications by Year
in descending order

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187 papers	16,629 citations	41627 51 h-index	18400 124 g-index
196 all docs	196 docs citations	196 times ranked	10608 citing authors

#	Article	IF	Citations
1	Monoâ€planar Tâ€Hex: Speed and flexibility for highâ€resolution 3D imaging. Magnetic Resonance in Medicine, 2022, 87, 272-280.	1.9	1
2	Advances in spiral fMRI: A high-resolution study with single-shot acquisition. NeuroImage, 2022, 246, 118738.	2.1	18
3	Pulse encoding for ZTE imaging: RF excitation without deadâ€time penalty. Magnetic Resonance in Medicine, 2022, 87, 1360-1374.	1.9	4
4	Evaluating diffusion dispersion across an extended range of bâ€values and frequencies: Exploiting gapâ€filled OGSE shapes, strong gradients, and spiral readouts. Magnetic Resonance in Medicine, 2022, 87, 2710-2723.	1.9	5
5	Low Subicular Volume as an Indicator of Dementia-Risk Susceptibility in Old Age. Frontiers in Aging Neuroscience, 2022, 14, 811146.	1.7	5
6	Advances in spiral fMRI: A high-resolution dataset. Data in Brief, 2022, 42, 108050.	0.5	0
7	Thermal variation in gradient response: measurement and modeling. Magnetic Resonance in Medicine, 2022, 87, 2224-2238.	1.9	6
8	Highâ€resolution MRI of mummified tissues using advanced shortâ€T₂ methodology and hardware. Magnetic Resonance in Medicine, 2021, 85, 1481-1492.	1.9	7
9	On the signalâ€toâ€noise ratio benefit of spiral acquisition in diffusion MRI. Magnetic Resonance in Medicine, 2021, 85, 1924-1937.	1.9	28
10	Tâ€Hex: Tilted hexagonal grids for rapid 3D imaging. Magnetic Resonance in Medicine, 2021, 85, 2507-2523.	1.9	11
11	Simultaneous feedback control for joint field and motion correction in brain MRI. NeuroImage, 2021, 226, 117286.	2.1	11
12	Whole-brain estimates of directed connectivity for human connectomics. NeuroImage, 2021, 225, 117491.	2.1	20
13	Improved gradient waveforms for oscillating gradient spinâ€echo (OGSE) diffusion tensor imaging. NMR in Biomedicine, 2021, 34, e4434.	1.6	10
14	Hemodynamic modeling of longâ€term aspirin effects on blood oxygenated level dependent responses at 7 Tesla in patients at cardiovascular risk. European Journal of Neuroscience, 2021, 53, 1262-1278.	1.2	0
15	Elastomer coils for wearable MR detection. Magnetic Resonance in Medicine, 2021, 85, 2882-2891.	1.9	10
16	HYFI: Hybrid filling of the deadâ€time gap for faster zero echo time imaging. NMR in Biomedicine, 2021, 34, e4493.	1.6	21
17	Mechanism of anomalous sinking of an intruder in a granular packing close to incipient fluidization. Physical Review Fluids, 2021, 6, .	1.0	7
18	Feasibility of spiral fMRI based on an LTI gradient model. NeuroImage, 2021, 245, 118674.	2.1	5

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19	A Reconfigurable Platform for Magnetic Resonance Data Acquisition and Processing. IEEE Transactions on Medical Imaging, 2020, 39, 1138-1148.	5.4	5
20	An In-Bore Receiver for Magnetic Resonance Imaging. IEEE Transactions on Medical Imaging, 2020, 39, 997-1007.	5.4	6
21	Longâ€T₂â€suppressed zero echo time imaging with weighted echo subtraction and gradient error correction. Magnetic Resonance in Medicine, 2020, 83, 412-426.	1.9	8
22	Motion detection with NMR markers using realâ€time field tracking in the laboratory frame. Magnetic Resonance in Medicine, 2020, 84, 89-102.	1.9	3
23	Gradient Response Harvesting for Continuous System Characterization During MR Sequences. IEEE Transactions on Medical Imaging, 2020, 39, 806-815.	5.4	6
24	Betaâ€amyloidâ€associated episodic memory variation correlates with subicular volume in nonâ€demented old aged individuals. Alzheimer's and Dementia, 2020, 16, e043904.	0.4	0
25	GABA and glutamate associate with evidence of preclinical Alzheimer disease in humans: A 7 Tesla MRSI and ¹¹Câ€PIB PET study. Alzheimer's and Dementia, 2020, 16, e044175.	0.4	1
26	A transmitâ€“receive array for brain imaging with a highâ€performance gradient insert. Magnetic Resonance in Medicine, 2020, 84, 2278-2289.	1.9	3
27	Detector clothes for MRI: A wearable array receiver based on liquid metal in elastic tubes. Scientific Reports, 2020, 10, 8844.	1.6	24
28	Advances in MRI of the myelin bilayer. NeuroImage, 2020, 217, 116888.	2.1	30
29	Highâ€resolution shortâ€T₂ MRI using a highâ€performance gradient. Magnetic Resonance in Medicine, 2020, 84, 1933-1946.	1.9	13
30	Minimizing the echo time in diffusion imaging using spiral readouts and a head gradient system. Magnetic Resonance in Medicine, 2020, 84, 3117-3127.	1.9	14
31	A comprehensive approach for correcting voxelâ€wise bâ€value errors in diffusion MRI. Magnetic Resonance in Medicine, 2020, 83, 2173-2184.	1.9	15
32	Echoâ€planar imaging of the human head with 100 mT/m gradients and highâ€order modeling of eddy current fields. Magnetic Resonance in Medicine, 2020, 84, 751-761.	1.9	8
33	Short-T2 MRI: Principles and recent advances. Progress in Nuclear Magnetic Resonance Spectroscopy, 2019, 114-115, 237-270.	3.9	45
34	Low-distortion diffusion tensor MRI with improved phaseless encoding. Journal of Magnetic Resonance, 2019, 309, 106602.	1.2	2
35	Real-time magnetic resonance imaging of fluidized beds with internals. Chemical Engineering Science, 2019, 198, 117-123.	1.9	22
36	Increased cerebral blood volume in small arterial vessels is aÂcorrelate of amyloid-Î²â€“related cognitive decline. Neurobiology of Aging, 2019, 76, 181-193.	1.5	10

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37	MR Image Reconstruction Using Deep Density Priors. IEEE Transactions on Medical Imaging, 2019, 38, 1633-1642.	5.4	114
38	On the Bending and Stretching of Liquid Metal Receive Coils for Magnetic Resonance Imaging. IEEE Transactions on Biomedical Engineering, 2019, 66, 1542-1548.	2.5	17
39	Automatic Resonance Frequency Retuning of Stretchable Liquid Metal Receive Coil for Magnetic Resonance Imaging. IEEE Transactions on Medical Imaging, 2019, 38, 1420-1426.	5.4	8
40	Lateral geniculate nucleus volumetry at 3T and 7T: Four different optimized magnetic-resonance-imaging sequences evaluated against a 7T reference acquisition. NeuroImage, 2019, 186, 399-409.	2.1	9
41	Laminar fMRI and computational theories of brain function. NeuroImage, 2019, 197, 699-706.	2.1	54
42	Inâ€plane â€œsuperresolutionâ€•MRI with phaseless subâ€pixel encoding. Magnetic Resonance in Medicine, 2018, 80, 2384-2392.	1.9	8
43	Singleâ€shot spiral imaging at 7â€‰<scp>T</scp>. Magnetic Resonance in Medicine, 2018, 80, 1836-1846.	1.9	23
44	Ultrafast Ligand Self-Exchanging Gadolinium Complexes in Ionic Liquids for NMR Field Probes. Inorganic Chemistry, 2018, 57, 2314-2319.	1.9	5
45	Enhanced quantitative susceptibility mapping (QSM) using realâ€time field control. Magnetic Resonance in Medicine, 2018, 79, 770-778.	1.9	10
46	A highâ€performance gradient insert for rapid and shortâ€T₂ imaging at full duty cycle. Magnetic Resonance in Medicine, 2018, 79, 3256-3266.	1.9	65
47	Prospective motion correction with NMR markers using only native sequence elements. Magnetic Resonance in Medicine, 2018, 79, 2046-2056.	1.9	22
48	Filling the deadâ€time gap in zero echo time MRI: Principles compared. Magnetic Resonance in Medicine, 2018, 79, 2036-2045.	1.9	30
49	Multi-Rate Acquisition for Dead Time Reduction in Magnetic Resonance Receivers: Application to Imaging With Zero Echo Time. IEEE Transactions on Medical Imaging, 2018, 37, 408-416.	5.4	9
50	Lesion magnetic susceptibility response to hyperoxic challenge: A biomarker for malignant brain tumor microenvironment?. Magnetic Resonance Imaging, 2018, 47, 147-153.	1.0	4
51	Brain amyloid burden and cerebrovascular disease are synergistically associated with neurometabolism in cognitively unimpaired older adults. Neurobiology of Aging, 2018, 63, 152-161.	1.5	16
52	Rapid anatomical brain imaging using spiral acquisition and an expanded signal model. NeuroImage, 2018, 168, 88-100.	2.1	32
53	A generative model of whole-brain effective connectivity. NeuroImage, 2018, 179, 505-529.	2.1	83
54	Real-Time Magnetic Resonance Imaging of Bubble Behavior and Particle Velocity in Fluidized Beds. Industrial & Engineering Chemistry Research, 2018, 57, 9674-9682.	1.8	36

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55	VERSEâ€guided parallel RF excitations using dynamic field correction. NMR in Biomedicine, 2017, 30, e3697.	1.6	9
56	Physiology recording with magnetic field probes for fMRI denoising. NeuroImage, 2017, 154, 106-114.	2.1	8
57	Gradient and shim preâ€emphasis by inversion of a linear timeâ€invariant system model. Magnetic Resonance in Medicine, 2017, 78, 1607-1622.	1.9	26
58	Analysis and correction of field fluctuations in fMRI data using field monitoring. NeuroImage, 2017, 154, 92-105.	2.1	38
59	A virtually 1Hâ€free birdcage coil for zero echo time MRI without background signal. Magnetic Resonance in Medicine, 2017, 78, 399-407.	1.9	16
60	Adsorbed Eutectic GaIn Structures on a Neoprene Foam for Stretchable MRI Coils. Advanced Materials, 2017, 29, 1703744.	11.1	27
61	Real-time probing of granular dynamics with magnetic resonance. Science Advances, 2017, 3, e1701879.	4.7	50
62	Feedback field control improves the precision of T₂* quantification at 7ÂT. NMR in Biomedicine, 2017, 30, e3753.	1.6	9
63	Correction of parallel transmission using concurrent RF and gradient field monitoring. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2017, 30, 473-488.	1.1	4
64	Memory performance-related dynamic brain connectivity indicates pathological burden and genetic risk for Alzheimerâ€™s disease. Alzheimer's Research and Therapy, 2017, 9, 24.	3.0	43
65	The PhysIO Toolbox for Modeling Physiological Noise in fMRI Data. Journal of Neuroscience Methods, 2017, 276, 56-72.	1.3	289
66	Singleâ€shot spiral imaging enabled by an expanded encoding model: <scp>D</scp>emonstration in diffusion <scp>MRI</scp>. Magnetic Resonance in Medicine, 2017, 77, 83-91.	1.9	48
67	MRI with phaseless encoding. Magnetic Resonance in Medicine, 2017, 78, 1029-1037.	1.9	9
68	A Fully Integrated Dual-Channel On-Coil CMOS Receiver for Array Coils in 1.5â€“10.5 T MRI. IEEE Transactions on Biomedical Circuits and Systems, 2017, 11, 1245-1255.	2.7	20
69	[ICâ€Pâ€018]: NEUROIMAGINGâ€DEFINED AMYLOID AND CEREBROVASCULAR PATHOLOGY ARE ASSOCIATED WITH A NEUROMETABOLIC SIGNATURE OF ALZHEIMER's DISEASE. Alzheimer's and Dementia, 2017, 13, P20.	0.4	0
70	Functional Laterality of Task-Evoked Activation in Sensorimotor Cortex of Preterm Infants: An Optimized 3 T fMRI Study Employing a Customized Neonatal Head Coil. PLoS ONE, 2017, 12, e0169392.	1.1	10
71	A field camera for MR sequence monitoring and system analysis. Magnetic Resonance in Medicine, 2016, 75, 1831-1840.	1.9	91
72	In vivo magnetization transfer imaging of the lung using a zero echo time sequence at 4.7 Tesla in mice: Initial experience. Magnetic Resonance in Medicine, 2016, 76, 156-162.	1.9	8

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73	Fast iterative preâ€emphasis calibration method enabling thirdâ€order dynamic shim updated fMRI. Magnetic Resonance in Medicine, 2016, 75, 1119-1131.	1.9	20
74	Utility of real-time field control in T₂ *-Weighted head MRI at 7T. Magnetic Resonance in Medicine, 2016, 76, 430-439.	1.9	28
75	SENSE reconstruction for multiband EPI including sliceâ€dependent N/2 ghost correction. Magnetic Resonance in Medicine, 2016, 76, 873-879.	1.9	17
76	Concurrent recording of RF pulses and gradient fields â€“ comprehensive field monitoring for MRI. NMR in Biomedicine, 2016, 29, 1162-1172.	1.6	16
77	Image reconstruction using a gradient impulse response model for trajectory prediction. Magnetic Resonance in Medicine, 2016, 76, 45-58.	1.9	57
78	Dynamic nuclear magnetic resonance field sensing with part-per-trillion resolution. Nature Communications, 2016, 7, 13702.	5.8	33
79	Low episodic memory performance in cognitively normal elderly subjects is associated with increased posterior cingulate gray matter N-acetylaspartate: a 1H MRSI study at 7ÂTesla. Neurobiology of Aging, 2016, 48, 195-203.	1.5	24
80	Probing neuronal activation by functional quantitative susceptibility mapping under a visual paradigm: A group level comparison with BOLD fMRI and PET. NeuroImage, 2016, 137, 52-60.	2.1	30
81	A wearable bluetooth LE sensor for patient monitoring during MRI scans. , 2016, 2016, 4975-4978.		7
82	<scp>SVD</scp> analysis of Array transmission and reception and its use for bootstrapping calibration. Magnetic Resonance in Medicine, 2016, 76, 1730-1740.	1.9	1
83	Continuous Magnetic Field Monitoring Using Rapid Re-Excitation of NMR Probe Sets. IEEE Transactions on Medical Imaging, 2016, 35, 1452-1462.	5.4	10
84	MR imaging of healthy knees in varying degrees of flexion using a stretchable coil array provides comparable image quality compared to a standard knee coil array. European Journal of Radiology, 2016, 85, 518-523.	1.2	5
85	Symmetrically biased T/R switches for NMR and MRI with microsecond dead time. Journal of Magnetic Resonance, 2016, 263, 147-155.	1.2	28
86	Realâ€time motion correction using gradient tones and headâ€mounted <scp>NMR</scp> field probes. Magnetic Resonance in Medicine, 2015, 74, 647-660.	1.9	41
87	Integrated CMOS Receiver for Wearable Coil Arrays in MRI Applications. , 2015, , .		6
88	Single-shot imaging with higher-dimensional encoding using magnetic field monitoring and concomitant field correction. Magnetic Resonance in Medicine, 2015, 73, 1340-1357.	1.9	13
89	Monitoring, analysis, and correction of magnetic field fluctuations in echo planar imaging time series. Magnetic Resonance in Medicine, 2015, 74, 396-409.	1.9	35
90	Reduction of voxel bleeding in highly accelerated parallel ¹H MRSI by direct control of the spatial response function. Magnetic Resonance in Medicine, 2015, 73, 469-480.	1.9	32

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91	Algebraic method to synthesize specified modal currents in ladder resonators: Application to noncircular birdcage coils. Magnetic Resonance in Medicine, 2015, 74, 1470-1481.	1.9	6
92	Diffusion MRI with concurrent magnetic field monitoring. Magnetic Resonance in Medicine, 2015, 74, 925-933.	1.9	39
93	Exploring the bandwidth limits of ZTE imaging: Spatial response, outâ€ofâ€band signals, and noise propagation. Magnetic Resonance in Medicine, 2015, 74, 1236-1247.	1.9	17
94	Retrospective correction of physiological field fluctuations in high-field brain MRI using concurrent field monitoring. Magnetic Resonance in Medicine, 2015, 73, 1833-1843.	1.9	70
95	ZTE imaging with enhanced flip angle using modulated excitation. Magnetic Resonance in Medicine, 2015, 74, 684-693.	1.9	34
96	Effect of respiratory hyperoxic challenge on magnetic susceptibility in human brain assessed by quantitative susceptibility mapping (QSM). NMR in Biomedicine, 2015, 28, 1688-1696.	1.6	12
97	MIDA: A Multimodal Imaging-Based Detailed Anatomical Model of the Human Head and Neck. PLoS ONE, 2015, 10, e0124126.	1.1	220
98	Realâ€time feedback for spatiotemporal field stabilization in MR systems. Magnetic Resonance in Medicine, 2015, 73, 884-893.	1.9	57
99	ZTE imaging with longâ€T₂ suppression. NMR in Biomedicine, 2015, 28, 247-254.	1.6	30
100	Regional Fluid-Attenuated Inversion Recovery (FLAIR) at 7 Tesla correlates with amyloid beta in hippocampus and brainstem of cognitively normal elderly subjects. Frontiers in Aging Neuroscience, 2014, 6, 240.	1.7	20
101	Analysis of temperature dependence of background phase errors in phase-contrast cardiovascular magnetic resonance. Journal of Cardiovascular Magnetic Resonance, 2014, 16, 97.	1.6	46
102	Rapid and robust pulmonary proton ZTE imaging in the mouse. NMR in Biomedicine, 2014, 27, 1129-1134.	1.6	29
103	Field camera measurements of gradient and shim impulse responses using frequency sweeps. Magnetic Resonance in Medicine, 2014, 72, 570-583.	1.9	40
104	Feedback field control improves linewidths in in vivo magnetic resonance spectroscopy. Magnetic Resonance in Medicine, 2014, 71, 1657-1662.	1.9	22
105	Thermal Tissue Damage Model Analyzed for Different Wholeâ€Body SAR and Scan Durations for Standard MR Body Coils. Magnetic Resonance in Medicine, 2014, 71, 421-431.	1.9	76
106	Magnetic resonance imaging (MRI) of jet height hysteresis in packed beds. Chemical Engineering Science, 2014, 109, 276-283.	1.9	15
107	Matched-filter acquisition for BOLD fMRI. NeuroImage, 2014, 100, 145-160.	2.1	31
108	Cortical Amyloid Beta in Cognitively Normal Elderly Adults is Associated with Decreased Network Efficiency within the Cerebro-Cerebellar System. Frontiers in Aging Neuroscience, 2014, 6, 52.	1.7	26

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109	Wholeâ€body and local RF absorption in human models as a function of anatomy and position within 1.5T MR body coil. Magnetic Resonance in Medicine, 2014, 71, 839-845.	1.9	55
110	Gradient system characterization by impulse response measurements with a dynamic field camera. Magnetic Resonance in Medicine, 2013, 69, 583-593.	1.9	148
111	Do dynamicâ€based MR knee kinematics methods produce the same results as static methods?. Magnetic Resonance in Medicine, 2013, 69, 1634-1644.	1.9	40
112	Magnetic resonance imaging (MRI) study of jet formation in packed beds. Chemical Engineering Science, 2013, 97, 406-412.	1.9	18
113	Direct depiction of bone microstructure using MRI with zero echo time. Bone, 2013, 54, 44-47.	1.4	49
114	ZTE imaging in humans. Magnetic Resonance in Medicine, 2013, 70, 328-332.	1.9	136
115	Single shot trajectory design for region-specific imaging using linear and nonlinear magnetic encoding fields. Magnetic Resonance in Medicine, 2013, 70, 684-696.	1.9	23
116	Quantification of subcortical grayâ€matter vascularization using 7Â<scp>T</scp>esla timeâ€ofâ€flight angiography. Brain and Behavior, 2013, 3, 515-518.	1.0	3
117	Monitoring and compensating phase imperfections in cine balanced steadyâ€state free precession. Magnetic Resonance in Medicine, 2013, 70, 1567-1579.	1.9	4
118	Assessment of Median Nerve with MR Neurography by Using Diffusion-Tensor Imaging: Normative and Pathologic Diffusion Values. Radiology, 2012, 265, 194-203.	3.6	108
119	Fast Higher-Order MR Image Reconstruction Using Singular-Vector Separation. IEEE Transactions on Medical Imaging, 2012, 31, 1396-1403.	5.4	18
120	Erratum to â€œFast Higher-Order MR Image Reconstruction Using Singular-Vector Separationâ€•[Jul 12 1396-1403]. IEEE Transactions on Medical Imaging, 2012, 31, 1833-1833.	5.4	0
121	MR neurography of the median nerve at 3.0T: Optimization of diffusion tensor imaging and fiber tractography. European Journal of Radiology, 2012, 81, e775-e782.	1.2	39
122	Analysis and correction of background velocity offsets in phaseâ€contrast flow measurements using magnetic field monitoring. Magnetic Resonance in Medicine, 2012, 67, 1294-1302.	1.9	51
123	Stretchable coil arrays: Application to knee imaging under varying flexion angles. Magnetic Resonance in Medicine, 2012, 67, 872-879.	1.9	51
124	A multi-sample 94GHz dissolution dynamic-nuclear-polarization system. Journal of Magnetic Resonance, 2012, 214, 166-174.	1.2	63
125	Highâ€resolution ZTE imaging of human teeth. NMR in Biomedicine, 2012, 25, 1144-1151.	1.6	109
126	B Phase mapping at 7 T and its application for in vivo electrical conductivity mapping. Magnetic Resonance in Medicine, 2012, 67, 552-561.	1.9	124

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127	Local SAR enhancements in anatomically correct children and adult models as a function of position within 1.5ÂT MR body coil. Progress in Biophysics and Molecular Biology, 2011, 107, 428-433.	1.4	40
128	A Fast Wavelet-Based Reconstruction Method for Magnetic Resonance Imaging. IEEE Transactions on Medical Imaging, 2011, 30, 1649-1660.	5.4	116
129	In vitro and in vivo comparison of wrist MR imaging at 3.0 and 7.0 tesla using a gradient echo sequence and identical eightâ€channel coil array designs. Journal of Magnetic Resonance Imaging, 2011, 33, 661-667.	1.9	21
130	Direct MR arthrography of cadaveric wrists: Comparison between MR imaging at 3.0T and 7.0T and gross pathologic inspection. Journal of Magnetic Resonance Imaging, 2011, 34, 1333-1340.	1.9	7
131	Higher order reconstruction for MRI in the presence of spatiotemporal field perturbations. Magnetic Resonance in Medicine, 2011, 65, 1690-1701.	1.9	135
132	MRI with zero echo time: Hard versus sweep pulse excitation. Magnetic Resonance in Medicine, 2011, 66, 379-389.	1.9	154
133	Travelingâ€wave RF shimming and parallel MRI. Magnetic Resonance in Medicine, 2011, 66, 290-300.	1.9	30
134	Analysis of nickel concentration profiles around the roots of the hyperaccumulator plant Berkheya coddii using MRI and numerical simulations. Plant and Soil, 2010, 328, 291-302.	1.8	27
135	Improvements in parallel imaging accelerated functional MRI using multiecho echo-planar imaging. Magnetic Resonance in Medicine, 2010, 63, 959-969.	1.9	26
136	Optimal design of multipleâ€channel RF pulses under strict power and SAR constraints. Magnetic Resonance in Medicine, 2010, 63, 1280-1291.	1.9	58
137	Sweep MRI with algebraic reconstruction. Magnetic Resonance in Medicine, 2010, 64, 1685-1695.	1.9	35
138	Bandwidth, expansion, treewidth, separators and universality for bounded-degree graphs. European Journal of Combinatorics, 2010, 31, 1217-1227.	0.5	37
139	B interferometry for the calibration of RF transmitter arrays. Magnetic Resonance in Medicine, 2009, 61, 1480-1488.	1.9	71
140	A transmit/receive system for magnetic field monitoring of in vivo MRI. Magnetic Resonance in Medicine, 2009, 62, 269-276.	1.9	83
141	Travelling-wave nuclear magnetic resonance. Nature, 2009, 457, 994-998.	13.7	160
142	SELOVS: Brain MRSI localization based on highly selective T₁â€and B₁â€insensitive outerâ€volume suppression at 3T. Magnetic Resonance in Medicine, 2008, 59, 40-51.	1.9	43
143	Spatiotemporal magnetic field monitoring for MR. Magnetic Resonance in Medicine, 2008, 60, 187-197.	1.9	172
144	NMR probes for measuring magnetic fields and field dynamics in MR systems. Magnetic Resonance in Medicine, 2008, 60, 176-186.	1.9	172

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145	Asymmetric quadrature split birdcage coil for hyperpolarized ³He lung MRI at 1.5T. Magnetic Resonance in Medicine, 2008, 60, 431-438.	1.9	42
146	Modular design of receiver coil arrays. NMR in Biomedicine, 2008, 21, 644-654.	1.6	26
147	Less is more. Nature, 2008, 455, 43-44.	13.7	7
148	Magnetic resonance imaging methods to reveal the realâ€time distribution of nickel in porous media. European Journal of Soil Science, 2008, 59, 476-485.	1.8	21
149	Preliminary Experience with Visualization of Intracortical Fibers by Focused High-Resolution Diffusion Tensor Imaging. American Journal of Neuroradiology, 2008, 29, 146-150.	1.2	34
150	Array compression for MRI with large coil arrays. Magnetic Resonance in Medicine, 2007, 57, 1131-1139.	1.9	202
151	Spatial resolution enhancement using sensitivity-encoded echo-planar imaging at 3T in a typical motor paradigm. Computerized Medical Imaging and Graphics, 2007, 31, 704-714.	3.5	1
152	Encoding and reconstruction in parallel MRI. NMR in Biomedicine, 2006, 19, 288-299.	1.6	138
153	Potential and feasibility of parallel MRI at high field. NMR in Biomedicine, 2006, 19, 368-378.	1.6	113
154	k-t BLAST reconstruction from non-Cartesiank-t space sampling. Magnetic Resonance in Medicine, 2006, 55, 85-91.	1.9	44
155	Lattice permutation for reducing motion artifacts in radial and spiral dynamic imaging. Magnetic Resonance in Medicine, 2006, 55, 116-125.	1.9	15
156	Minimum-norm reconstruction for sensitivity-encoded magnetic resonance spectroscopic imaging. Magnetic Resonance in Medicine, 2006, 55, 287-295.	1.9	38
157	Transmit and receive transmission line arrays for 7 Tesla parallel imaging. Magnetic Resonance in Medicine, 2005, 53, 434-445.	1.9	374
158	Sensitivity encoding as a means of enhancing the SNR efficiency in steady-state MRI. Magnetic Resonance in Medicine, 2005, 53, 177-185.	1.9	34
159	Optimizing spatiotemporal sampling fork-t BLAST andk-t SENSE: Application to high-resolution real-time cardiac steady-state free precession. Magnetic Resonance in Medicine, 2005, 53, 1372-1382.	1.9	115
160	Accelerating cine phase-contrast flow measurements usingk-t BLAST andk-t SENSE. Magnetic Resonance in Medicine, 2005, 54, 1430-1438.	1.9	127
161	MR Imaging of the Wrist: Comparison between 1.5- and 3-T MR Imagingâ€"Preliminary Experience. Radiology, 2005, 234, 256-264.	3.6	124
162	Accelerated dynamic Fourier velocity encoding by exploiting velocity-spatio-temporal correlations. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2004, 17, 86-94.	1.1	31

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163	Sensitivity-encoded coronary MRA at 3T. Magnetic Resonance in Medicine, 2004, 52, 221-227.	1.9	64
164	Electrodynamics and ultimate SNR in parallel MR imaging. Magnetic Resonance in Medicine, 2004, 52, 376-390.	1.9	248
165	Calibration of echo-planar 2D-selective RF excitation pulses. Magnetic Resonance in Medicine, 2004, 52, 1136-1145.	1.9	19
166	On the influence of training data quality ink-t BLAST reconstruction. Magnetic Resonance in Medicine, 2004, 52, 1175-1183.	1.9	61
167	Parallel imaging performance as a function of field strength?An experimental investigation using electrodynamic scaling. Magnetic Resonance in Medicine, 2004, 52, 953-964.	1.9	179
168	Equi-ripple design of quadratic-phase RF pulses. Journal of Magnetic Resonance, 2004, 166, 111-122.	1.2	33
169	Parallel Imaging at High Field Strength. Topics in Magnetic Resonance Imaging, 2004, 15, 237-244.	0.7	122
170	Parallel spectroscopic imaging with spin-echo trains. Magnetic Resonance in Medicine, 2003, 50, 196-200.	1.9	62
171	k-t BLAST andk-t SENSE: Dynamic MRI with high frame rate exploiting spatiotemporal correlations. Magnetic Resonance in Medicine, 2003, 50, 1031-1042.	1.9	727
172	Sensitivity-encoded single-shot spiral imaging for reduced susceptibility artifacts in BOLD fMRI. Magnetic Resonance in Medicine, 2002, 48, 860-866.	1.9	104
173	2D sense for faster 3D MRI. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2002, 14, 10-19.	1.1	213
174	2D SENSE for faster 3D MRI. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2002, 14, 10-19.	1.1	19
175	Sensitivity Encoded Cardiac MRI. Journal of Cardiovascular Magnetic Resonance, 2001, 3, 1-9.	1.6	108
176	Improved diffusion-weighted single-shot echo-planar imaging (EPI) in stroke using sensitivity encoding (SENSE). Magnetic Resonance in Medicine, 2001, 46, 548-554.	1.9	295
177	Advances in sensitivity encoding with arbitraryk-space trajectories. Magnetic Resonance in Medicine, 2001, 46, 638-651.	1.9	994
178	Sensitivity-encoded spectroscopic imaging. Magnetic Resonance in Medicine, 2001, 46, 713-722.	1.9	162
179	Specific coil design for SENSE: A six-element cardiac array. Magnetic Resonance in Medicine, 2001, 45, 495-504.	1.9	177
180	Cardiac real-time imaging using SENSE. Magnetic Resonance in Medicine, 2000, 43, 177-184.	1.9	183

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181	RF Pulse Concatenation for Spatially Selective Inversion. Journal of Magnetic Resonance, 2000, 146, 58-65.	1.2	25
182	Contrast-enhanced 3D MRA using SENSE. Journal of Magnetic Resonance Imaging, 2000, 12, 671-677.	1.9	221
183	PRESTO-SENSE: An ultrafast whole-brain fMRI technique. Magnetic Resonance in Medicine, 2000, 43, 779-786.	1.9	112
184	Transfer insensitive labeling technique (TILT): Application to multislice functional perfusion imaging. Journal of Magnetic Resonance Imaging, 1999, 9, 454-461.	1.9	96
185	SENSE: Sensitivity encoding for fast MRI. Magnetic Resonance in Medicine, 1999, 42, 952-962.	1.9	5,592
186	SENSE: Sensitivity encoding for fast MRI. , 1999, 42, 952.		1
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