

# CITATION REPORT

List of articles citing

## The NMR phased array

DOI: 10.1002/mrm.1910160203

Magnetic Resonance in Medicine, 1990, 16, 192-225.

**Source:** <https://exaly.com/paper-pdf/21417911/citation-report.pdf>

**Version:** 2024-04-28

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

#	Paper	IF	Citations
1846	Region Specific SNR Gains By Fixed Phase Non-quadrature Combination.		
1845	. <b>1991</b> , 39, 949-953		12
1844	Sample-induced cross-coil coupling. Implications for magnetic-resonance-imaging quadrature coils. <b>1991</b> , 94, 309-316		
1843	Volume imaging with MR phased arrays. <i>Magnetic Resonance in Medicine</i> , <b>1991</b> , 18, 309-19	4.4	154
1842	Pelvic phased array coil: image quality assessment for spin-echo MR imaging. <b>1992</b> , 10, 513-22		27
1841	Optimization of NMR receiver bandwidth by inductive coupling. <b>1992</b> , 10, 55-65		36
1840	Improvements in solvent-signal suppression. <b>1992</b> , 96, 541-550		1
1839	Proton spectroscopic imaging of human brain. <b>1992</b> , 98, 556-575		9
1838	Reduction of RF penetration effects in high field imaging. <i>Magnetic Resonance in Medicine</i> , <b>1992</b> , 23, 287-301	4.4	52
1837	Noise correlations exist for independent RF coils. <i>Magnetic Resonance in Medicine</i> , <b>1992</b> , 23, 394-7	4.4	11
1836	Noise correlation in multicoil receiver systems. <i>Magnetic Resonance in Medicine</i> , <b>1992</b> , 24, 85-9	4.4	18
1835	Improved efficiency in 2DFT magnetization-prepared rapid gradient echo imaging: application to abdominal imaging. <i>Magnetic Resonance in Medicine</i> , <b>1992</b> , 25, 195-203	4.4	2
1834	An NMR phased array for human cardiac 31P spectroscopy. <i>Magnetic Resonance in Medicine</i> , <b>1992</b> , 28, 54-64	4.4	56
1833	MR imaging of the pelvis with an endorectal-external multicoil array. <b>1992</b> , 2, 229-32		30
1832	Pelvic imaging with phased-array coils: quantitative assessment of signal-to-noise ratio improvement. <b>1992</b> , 2, 321-6		44
1831	MR angiography using velocity-selective preparation pulses and segmented gradient-echo acquisition. <i>Magnetic Resonance in Medicine</i> , <b>1993</b> , 30, 704-14	4.4	17
1830	Optimization of submillimeter-resolution MR imaging methods for the inner ear. <b>1993</b> , 3, 451-9		32

1829	Single-breath-hold venous or arterial flow-suppressed pulmonary vascular MR imaging with phased-array coils. <b>1993</b> , 3, 611-6		17
1828	An adjustable RF coil loading device. <b>1993</b> , 11, 81-6		5
1827	Simultaneous image acquisition in magnetic resonance imaging. <b>1993</b> , 1, 35-38		1
1826	Design and performance assessment of catheter coils in vascular MR imaging.		
1825	Quick measurement of NMR-coil sensitivity with a dual-loop probe. <b>1993</b> , 64, 1841-1844		59
1824	Magnetic resonance neurography. <b>1993</b> , 341, 659-61		180
1823	MRI Receivers For Reduced Time Acquisition.		
1822	.		
1821	.		
1820	Dynamic gadolinium-enhanced MRI in the detection of spinal arteriovenous malformations. <b>1994</b> , 36, 522-9		23
1819	Three-dimensional steady-state MR angiography of the lower extremities. <b>1994</b> , 4, 223-30		7
1818	Reconstructions of phase contrast, phased array multicoil data. <i>Magnetic Resonance in Medicine</i> , <b>1994</b> , 32, 330-4	4.4	121
1817	A four-channel time domain multiplexer: a cost-effective alternative to multiple receivers. <i>Magnetic Resonance in Medicine</i> , <b>1994</b> , 32, 499-504	4.4	35
1816	Short tau inversion recovery fast spin-echo (fast STIR) imaging of the spinal cord in multiple sclerosis. <b>1994</b> , 12, 983-9		25
1815	Whither human cardiac spectroscopy?. <b>1994</b> , 2, 169-176		5
1814	Magnetic resonance imaging evaluation of adnexal masses. <b>1994</b> , 15, 38-48		20
1813	SNORE: spike noise removal and detection. <b>1994</b> , 13, 133-6		8
1812	.		

1811	Calculation of the signal-to-noise ratio for simple surface coils and arrays of coils. <b>1995</b> , 42, 908-17		89
1810	High-resolution MR imaging of human arteries. <b>1995</b> , 5, 93-100		102
1809	Partial volume effects in volume-localized phased-array proton spectroscopy of the temporal lobe. <b>1995</b> , 5, 433-6		15
1808	Phased-array magnetic resonance imaging of the carotid artery bifurcation: preliminary results in healthy volunteers and a patient with atherosclerotic disease. <b>1995</b> , 5, 561-5		68
1807	Coronary MRI with a respiratory feedback monitor: the 2D imaging case. <i>Magnetic Resonance in Medicine</i> , <b>1995</b> , 33, 116-21	4.4	74
1806	Phased array coils for upper extremity MRA. <i>Magnetic Resonance in Medicine</i> , <b>1995</b> , 33, 224-9	4.4	11
1805	Design of matching networks for low noise preamplifiers. <i>Magnetic Resonance in Medicine</i> , <b>1995</b> , 33, 848-52	4.4	95
1804	A phased array coil for human cardiac imaging. <i>Magnetic Resonance in Medicine</i> , <b>1995</b> , 34, 92-8	4.4	31
1803	An improved quadrature or phased-array coil for MR cardiac imaging. <i>Magnetic Resonance in Medicine</i> , <b>1995</b> , 34, 186-93	4.4	53
1802	Development of a phased-array coil for the lower extremities. <i>Magnetic Resonance in Medicine</i> , <b>1995</b> , 34, 260-7	4.4	10
1801	Phased array detectors and an automated intensity-correction algorithm for high-resolution MR imaging of the human brain. <i>Magnetic Resonance in Medicine</i> , <b>1995</b> , 34, 433-9	4.4	123
1800	Proton spectroscopic imaging of the human brain using phased array detectors. <i>Magnetic Resonance in Medicine</i> , <b>1995</b> , 34, 440-5	4.4	77
1799	New technical developments in magnetic resonance imaging of epilepsy. <b>1995</b> , 13, 1095-8		7
1798	Entwurf und Aufbau einer Array-Kopfspule zur funktionalen MR-Bildgebung. <b>1995</b> , 40, 373-374		
1797	Relation between noise correlation and transmission coefficient of surface coils for magnetic resonance imaging.		
1796	High resolution magnetic resonance imaging of the anterior visual pathway in patients with optic neuropathies using fast spin echo and phased array local coils. <b>1995</b> , 58, 562-9		36
1795	Semiquantitation of regional myocardial blood flow in normal human subjects by first-pass magnetic resonance imaging. <b>1995</b> , 130, 893-901		67
1794	MR imaging of the female pelvis. <b>1995</b> , 50, 667-76		7

1793	Receiver Design for MR. <b>1996</b> , 1-21	2
1792	Whole-Body Continuously Moving Table MRI: Principles and Applications. <b>1996</b> ,	
1791	NMR Spectroscopy of the Human Heart. <b>1996</b> ,	5
1790	MRI of the Female Pelvis. <b>1996</b> ,	
1789	Hyperpolarized Gas Imaging. <b>1996</b> ,	
1788	Breathhold imaging of the upper abdomen using a circular polarized-array coil: comparison with standard body coil imaging. <b>1996</b> , 4, 93-104	11
1787	Single-shot T1- and T2-weighted magnetic resonance imaging of the heart with black blood: preliminary experience. <b>1996</b> , 4, 231-40	62
1786	Optimizing joint imaging: MR imaging techniques. <b>1996</b> , 6, 882-9	1
1785	Surface coil phased arrays for high-resolution imaging of the carotid arteries. <b>1996</b> , 6, 109-12	131
1784	Improved reproducibility in measuring LV volumes and mass using multicoil breath-hold cine MR imaging. <b>1996</b> , 6, 124-7	31
1783	Adaptive filtering for high resolution magnetic resonance images. <b>1996</b> , 6, 367-77	3
1782	Recent technical advances in MR imaging of the abdomen. <b>1996</b> , 6, 822-32	24
1781	High resolution MR imaging of the bilateral hips with dual phased-array coil. <b>1996</b> , 6, 950-3	6
1780	Intensity correction of phased-array surface coil images. <i>Magnetic Resonance in Medicine</i> , <b>1996</b> , 35, 585-90	73
1779	Cardiac magnetic resonance fluoroscopy. <i>Magnetic Resonance in Medicine</i> , <b>1996</b> , 36, 588-95	4.4 50
1778	Signal characteristics of tumors shown by high-resolution endorectal coil magnetic resonance imaging may predict outcome among patients with cervical carcinoma treated with irradiation: A preliminary study. <b>1996</b> , 78, 2535-2542	3
1777	Magnetic resonance imaging to study lesions of atherosclerosis in the hyperlipidemic rabbit aorta. <b>1996</b> , 14, 93-102	53
1776	Application of magnetic resonance neurography in the evaluation of patients with peripheral nerve pathology. <b>1996</b> , 85, 299-309	185

1775	Magnetic resonance angiography. <b>1997</b> , 70, 6-28		52
1774	Phase alignment of multiple surface coil data for reduced bandwidth and reconstruction requirements in volumetric MRI applications.		
1773	.		
1772	Time domain multiplexing for multichannel non-Fourier spatial encoding [magnetic resonance imaging].		
1771	Signal-to-noise measurements in magnitude images from NMR phased arrays.		2
1770	MRI developments in perspective. <b>1997</b> , 70 Spec No, S70-80		7
1769	Wavelet Modelling of High Resolution Radar Imaging and Clinical Magnetic Resonance Tomography. <b>1997</b> , 31, 195-244		
1768	Optimization of sequences for MRI of the abdomen and pelvis. <b>1997</b> , 52, 412-28		1
1767	Comparison of phased-array and body coils for MR imaging of liver. <b>1997</b> , 52, 745-9		13
1766	The role of boron MRI in boron neutron capture therapy. <b>1997</b> , 33, 153-61		33
1765	Magnetic resonance cholangiopancreatography: Objectives and future. <b>1997</b> , 4, 192-200		1
1764	High resolution T2-weighted imaging of the human brain using surface coils and an analytical reception profile correction. <b>1997</b> , 7, 512-7		16
1763	What is the optimum phased array coil design for cardiac and torso magnetic resonance?. <i>Magnetic Resonance in Medicine</i> , <b>1997</b> , 37, 591-9	4.4	44
1762	Multicoil array for high resolution imaging of the breast. <i>Magnetic Resonance in Medicine</i> , <b>1997</b> , 37, 778-844	4.4	29
1761	Integrated RF coil with stabilization for fMRI human cortex. <i>Magnetic Resonance in Medicine</i> , <b>1997</b> , 38, 15-8	4.4	23
1760	Simultaneous acquisition of spatial harmonics (SMASH): fast imaging with radiofrequency coil arrays. <i>Magnetic Resonance in Medicine</i> , <b>1997</b> , 38, 591-603	4.4	1826
1759	Signal-to-noise measurements in magnitude images from NMR phased arrays. <i>Magnetic Resonance in Medicine</i> , <b>1997</b> , 38, 852-7	4.4	401
1758	Phase alignment of multiple surface coil data for reduced bandwidth and reconstruction requirements. <i>Magnetic Resonance in Medicine</i> , <b>1997</b> , 38, 1003-11	4.4	18

1757	Theory and application of array coils in MR spectroscopy. <b>1997</b> , 10, 394-410		221
1756	A half-volume coil for efficient proton decoupling in humans at 4 tesla. <b>1997</b> , 125, 178-84		150
1755	In vivo lactate editing with simultaneous detection of choline, creatine, NAA, and lipid singlets at 1.5 T using PRESS excitation with applications to the study of brain and head and neck tumors. <b>1998</b> , 133, 243-54		102
1754	Bilateral imaging using separate interleaved 3D volumes and dynamically switched multiple receive coil arrays. <i>Magnetic Resonance in Medicine</i> , <b>1998</b> , 39, 108-15	4.4	25
1753	A novel multi-segment surface coil for neuro-functional magnetic resonance imaging. <i>Magnetic Resonance in Medicine</i> , <b>1998</b> , 39, 164-8	4.4	5
1752	Ultimate intrinsic signal-to-noise ratio in MRI. <i>Magnetic Resonance in Medicine</i> , <b>1998</b> , 39, 462-73	4.4	155
1751	Fast 1H spectroscopic imaging using a multi-element head-coil array. <i>Magnetic Resonance in Medicine</i> , <b>1998</b> , 40, 185-93	4.4	19
1750	A 16-element phased-array head coil. <i>Magnetic Resonance in Medicine</i> , <b>1998</b> , 40, 272-9	4.4	60
1749	3D MR coronary artery segmentation. <i>Magnetic Resonance in Medicine</i> , <b>1998</b> , 40, 697-702	4.4	21
1748	Catheter-tracking FOV MR fluoroscopy. <i>Magnetic Resonance in Medicine</i> , <b>1998</b> , 40, 865-72	4.4	64
1747	Can MRCP replace ERCP?. <b>1998</b> , 8, 517-34		45
1746	An automated measurement system for characterization of RF and gradient coil parameters. <b>1998</b> , 8, 740-7		6
1745	Dynamic scan-plane tracking using MR position monitoring. <b>1998</b> , 8, 924-32		75
1744	Three-dimensional high-resolution dynamic contrast-enhanced MR angiography of the pelvis and lower extremities with use of a phased array coil and subtraction: diagnostic accuracy. <b>1998</b> , 8, 1066-72		42
1743	High resolution breath-holding MR imaging of the abdomen with a phased-array multicoil. <b>1998</b> , 22, 301-8		2
1742	Electromagnetics in magnetic resonance imaging. <b>1998</b> , 40, 7-22		28
1741	Development of sensor arrays for electromagnetic inductive tomography: compensation of large background signal values. <b>1998</b> , 20, 195-202		2
1740	Signal-to-noise ratio in MRI. <b>1998</b> , 71, 704-7		68

1739	The Development of Spinal Diagnostic Imaging in Neuroradiology: A Short Historical Survey. <b>1998</b> , 11, 255-265		1
1738	A Phased Array Echoplanar Imaging System for fMRI. <b>1998</b> , 7, S549		
1737	A phased array echoplanar imaging system for fMRI. <b>1999</b> , 17, 121-9		9
1736	Echo planar imaging's impact on modern diagnostic MR-imaging: general principles and historic facts. <b>1999</b> , 9, 125-33		2
1735	A volume adjustable four-coil phased array for high resolution MR imaging of the hip. <b>1999</b> , 9, 59-64		13
1734	Quantitative analysis of magnetic resonance radio-frequency coils based on method of moments. <b>1999</b> , 35, 2118-2127		5
1733	Error-tolerant RF litz coils for NMR/MRI. <b>1999</b> , 140, 17-31		40
1732	Switchable multicoil array for MR micro-imaging of breast lesions. <i>Magnetic Resonance in Medicine</i> , <b>1999</b> , 41, 569-74	4.4	3
1731	Signal-to-noise ratio and signal-to-noise efficiency in SMASH imaging. <i>Magnetic Resonance in Medicine</i> , <b>1999</b> , 41, 1009-22	4.4	84
1730	Resolution enhancement in single-shot imaging using simultaneous acquisition of spatial harmonics (SMASH). <i>Magnetic Resonance in Medicine</i> , <b>1999</b> , 41, 1236-45	4.4	131
1729	A flexible view ordering technique for high-quality real-time 2DFT MR fluoroscopy. <i>Magnetic Resonance in Medicine</i> , <b>1999</b> , 42, 69-81	4.4	18
1728	Coronary venous oximetry using MRI. <i>Magnetic Resonance in Medicine</i> , <b>1999</b> , 42, 837-48	4.4	45
1727	SENSE: Sensitivity encoding for fast MRI. <i>Magnetic Resonance in Medicine</i> , <b>1999</b> , 42, 952-962	4.4	4782
1726	Sub-Riemannian geometry and clinical magnetic resonance tomography. <b>1999</b> , 22, 867-922		6
1725	Quantitative spectral/spatial analysis of phased array coil in magnetic resonance imaging based on method of moment. <b>1999</b> , 18, 1129-37		11
1724	Fast magnetic resonance imaging techniques. <b>1999</b> , 29, 90-100		21
1723	Fast MR imaging for evaluating the pancreaticobiliary system. <b>1999</b> , 29, 211-32		19
1722	MR pancreatography. <b>1999</b> , 20, 324-39		8



1721	Adaptive template filtering for signal-to-noise ratio enhancement in magnetic resonance imaging. <b>1999</b> , 18, 549-59		23
1720	Multiple solenoidal microcoil probes for high-sensitivity, high-throughput nuclear magnetic resonance spectroscopy. <b>1999</b> , 71, 4815-20		64
1719	Magnetic Resonance, General Medical. <b>2000</b> ,		
1718	A three-coil comparison for MR angiography. <b>2000</b> , 11, 458-68		21
1717	A broadband phased-array system for direct phosphorus and sodium metabolic MRI on a clinical scanner. <i>Magnetic Resonance in Medicine</i> , <b>2000</b> , 43, 269-77	4-4	44
1716	A transmit-only/receive-only (TORO) RF system for high-field MRI/MRS applications. <i>Magnetic Resonance in Medicine</i> , <b>2000</b> , 43, 284-9	4-4	124
1715	Adaptive reconstruction of phased array MR imagery. <i>Magnetic Resonance in Medicine</i> , <b>2000</b> , 43, 682-90	4-4	448
1714	An analytical SMASH procedure (ASP) for sensitivity-encoded MRI. <i>Magnetic Resonance in Medicine</i> , <b>2000</b> , 43, 716-25	4-4	21
1713	Interplay among recovery time, signal, and noise: Series- and parallel-tuned circuits are not always the same. <b>2000</b> , 12, 125-136		13
1712	Intensity correction by subtraction for phased-array MRA images. <b>2000</b> , 12, 501-4		0
1711	Partially parallel imaging with localized sensitivities (PILS). <i>Magnetic Resonance in Medicine</i> , <b>2000</b> , 44, 602-9	4-4	244
1710	Simultaneous image acquisition utilizing hybrid body and phased array receiver coils. <i>Magnetic Resonance in Medicine</i> , <b>2000</b> , 44, 660-3	4-4	2
1709	Human cardiac imaging at 3 T using phased array coils. <i>Magnetic Resonance in Medicine</i> , <b>2000</b> , 44, 978-82	4-4	153
1708	Magnetic resonance imaging of regional myocardial perfusion in patients with single-vessel coronary artery disease: quantitative comparison with (201)Thallium-SPECT and coronary angiography. <b>2000</b> , 11, 607-15		61
1707	NMR probeheads for in vivo applications. <b>2000</b> , 12, 361-388		84
1706	Bone marrow segmentation in leukemia using diffusion and T (2) weighted echo planar magnetic resonance imaging. <b>2000</b> , 13, 321-8		31
1705	Current technical development of magnetic resonance imaging. <b>2000</b> , 19, 34-41		9
1704	Determination of appropriate RF blocking impedance for MRI surface coils and arrays. <b>2000</b> , 10, 80-3		4

1703	Moment method analysis of mutual interaction in MRI phased array coils. <b>2000</b> , 10, 84-92	5
1702	SMASH imaging with an eight element multiplexed RF coil array. <b>2000</b> , 10, 93-104	29
1701	A multicoil array designed for cardiac SMASH imaging. <b>2000</b> , 10, 105-13	24
1700	Investigation of complex phased array coil designs for cardiac imaging. <b>2000</b> , 10, 122-30	4
1699	Multiple channel phased arrays for echo planar imaging. <b>2000</b> , 11, 138-43	
1698	Cardiovascular MRI probes for the outside in and for the inside out. <b>2000</b> , 11, 49-51	7
1697	Objective detection and localization of multiple sclerosis lesions on magnetic resonance brainstem images: validation with auditory evoked potentials. <b>2000</b> , 11, 231-58	5
1696	Contrast-enhanced 3D MR angiography with simultaneous acquisition of spatial harmonics: A pilot study. <b>2000</b> , 217, 284-9	110
1695	Ultimate signal-to-noise-ratio of surface and body antennas for magnetic resonance imaging. <b>2000</b> , 48, 418-428	58
1694	The contribution of magnetic resonance imaging in the differential diagnosis of optic nerve damage. <b>2000</b> , 172 Suppl 1, S17-22	19
1693	Fast fetal magnetic resonance imaging techniques. <b>2001</b> , 12, 67-79	37
1692	Nuclear Magnetic Resonance (NMR) Spectroscopy in the Study of Whole-animal Metabolism. <b>2001</b> ,	
1691	Phased array imaging on a 4.7T/33cm animal research system. <b>2001</b> , 72, 4292-4294	15
1690	Progress in high field MRI at the University of Florida. <b>2002</b> , 13, 152-7	10
1689	A sixteen-channel multiplexing upgrade for single channel receivers. <b>2001</b> , 19, 1009-16	13
1688	Multi-channel magnetic resonance spectroscopy through time domain multiplexing. <b>2001</b> , 19, 1001-8	8
1687	A multi-scale method for automatic correction of intensity non-uniformity in MR images. <b>2001</b> , 13, 428-36	43
1686	An apparatus for MR-guided breast lesion localization and core biopsy: design and preliminary results. <b>2001</b> , 14, 243-53	16

1685	Planar strip array (PSA) for MRI. <i>Magnetic Resonance in Medicine</i> , <b>2001</b> , 45, 673-83	4.4	71
1684	SMASH and SENSE: experimental and numerical comparisons. <i>Magnetic Resonance in Medicine</i> , <b>2001</b> , 45, 1103-11	4.4	59
1683	Ghost artifact cancellation using phased array processing. <i>Magnetic Resonance in Medicine</i> , <b>2001</b> , 46, 335-43	4.4	34
1682	Gd-DTPA bolus tracking in the myocardium using T1 fast acquisition relaxation mapping (T1 FARM). <i>Magnetic Resonance in Medicine</i> , <b>2001</b> , 46, 555-64	4.4	23
1681	Coil-by-coil image reconstruction with SMASH. <i>Magnetic Resonance in Medicine</i> , <b>2001</b> , 46, 619-23	4.4	26
1680	Advances in sensitivity encoding with arbitrary k-space trajectories. <i>Magnetic Resonance in Medicine</i> , <b>2001</b> , 46, 638-51	4.4	813
1679	Direct comparison of 3D spiral vs. Cartesian gradient-echo coronary magnetic resonance angiography. <i>Magnetic Resonance in Medicine</i> , <b>2001</b> , 46, 789-94	4.4	59
1678	In vivo 1H magnetic resonance imaging and spectroscopy of the rat spinal cord using an inductively-coupled chronically implanted RF coil. <i>Magnetic Resonance in Medicine</i> , <b>2001</b> , 46, 1216-22	4.4	41
1677	The quantum origins of the free induction decay signal and spin noise. <b>2001</b> , 148, 182-99		61
1676	Spatial dependence of a differential shading artifact in images from coil arrays with reactive cross-talk at 1.5 T. <b>2001</b> , 151, 146-51		5
1675	Specific coil design for SENSE: a six-element cardiac array. <i>Magnetic Resonance in Medicine</i> , <b>2001</b> , 45, 495-504	4.4	155
1674	Analysis of planar strip array antenna for MRI.		2
1673	Removing signal intensity inhomogeneity from surface coil MRI using discrete wavelet transform and wavelet packet.		1
1672	Radio-frequency coil selection for MR imaging of the brain and skull base. <b>2001</b> , 221, 11-25		18
1671	A generalized approach to parallel magnetic resonance imaging. <b>2001</b> , 28, 1629-43		192
1670	An algorithm for the optimum combination of data from arbitrary magnetic resonance phased array probes. <b>2002</b> , 47, N39-46		24
1669	Wrist: improved MR imaging with optimized transmit-receive coil design. <b>2002</b> , 223, 870-6		20
1668	Techniques for magnetic resonance imaging of the bowel. <b>2002</b> , 13, 379-87		3

1667	The neural basis of the blood-oxygen-level-dependent functional magnetic resonance imaging signal. <b>2002</b> , 357, 1003-37		642
1666	Comparison of 1-d and 2-d surface coil arrays for accelerated volume MR imaging using sensitivity encoding.		
1665	Simultaneous imaging method using phased array in MRI.		
1664	Functional MRI. <b>2002</b> , 315-349		10
1663	Comparison of fat suppression strategies in 3D spiral coronary magnetic resonance angiography. <b>2002</b> , 15, 462-6		20
1662	Combined high-resolution and real-time imaging: a technical feasibility study on coronary magnetic resonance angiography. <b>2002</b> , 16, 584-90		1
1661	Phase-sensitive inversion recovery for detecting myocardial infarction using gadolinium-delayed hyperenhancement. <i>Magnetic Resonance in Medicine</i> , <b>2002</b> , 47, 372-83	4.4	853
1660	Self-calibrating parallel imaging with automatic coil sensitivity extraction. <i>Magnetic Resonance in Medicine</i> , <b>2002</b> , 47, 529-38	4.4	141
1659	Combination of signals from array coils using image-based estimation of coil sensitivity profiles. <i>Magnetic Resonance in Medicine</i> , <b>2002</b> , 47, 539-48	4.4	99
1658	Detection and elimination of motion artifacts by regeneration of k-space. <i>Magnetic Resonance in Medicine</i> , <b>2002</b> , 47, 677-86	4.4	50
1657	Simulation-based investigation of partially parallel imaging with a linear array at high accelerations. <i>Magnetic Resonance in Medicine</i> , <b>2002</b> , 47, 777-86	4.4	14
1656	Solenoidal array coils. <i>Magnetic Resonance in Medicine</i> , <b>2002</b> , 47, 794-9	4.4	10
1655	Design of a SENSE-optimized high-sensitivity MRI receive coil for brain imaging. <i>Magnetic Resonance in Medicine</i> , <b>2002</b> , 47, 1218-27	4.4	164
1654	Generalized autocalibrating partially parallel acquisitions (GRAPPA). <i>Magnetic Resonance in Medicine</i> , <b>2002</b> , 47, 1202-10	4.4	3581
1653	Coupling and decoupling theory and its application to the MRI phased array. <i>Magnetic Resonance in Medicine</i> , <b>2002</b> , 48, 203-13	4.4	128
1652	Using UNFOLD to remove artifacts in parallel imaging and in partial-Fourier imaging. <i>Magnetic Resonance in Medicine</i> , <b>2002</b> , 48, 493-501	4.4	51
1651	Application of sensitivity-encoded echo-planar imaging for blood oxygen level-dependent functional brain imaging. <i>Magnetic Resonance in Medicine</i> , <b>2002</b> , 48, 1011-20	4.4	130
1650	The utility of magnetic resonance imaging in evaluating peripheral nerve disorders. <b>2002</b> , 25, 314-31		141

1649	Full-wave analysis of planar radiofrequency coils and coil arrays with assumed current distribution. <b>2002</b> , 15, 2-14		18
1648	2D SENSE for faster 3D MRI. <b>2002</b> , 14, 10-9		183
1647	A brief review of parallel magnetic resonance imaging. <b>2003</b> , 13, 2323-37		138
1646	Future prospects in cardiac magnetic resonance imaging. <b>2003</b> , 5, 83-90		4
1645	A degeneracy study in the circulant and bordered-circulant approach to birdcage and planar coils. <b>2003</b> , 16, 103-11		7
1644	Spinal-cord MRI in multiple sclerosis. <b>2003</b> , 2, 555-62		181
1643	A wavelet-based approximation of surface coil sensitivity profiles for correction of image intensity inhomogeneity and parallel imaging reconstruction. <b>2003</b> , 19, 96-111		59
1642	Phased-array MRI of canine prostate using endorectal and endourethral coils. <i>Magnetic Resonance in Medicine</i> , <b>2003</b> , 49, 710-5	4.4	7
1641	Parallel spectroscopic imaging with spin-echo trains. <i>Magnetic Resonance in Medicine</i> , <b>2003</b> , 50, 196-200	4.4	57
1640	Measuring the effects of indomethacin on changes in cerebral oxidative metabolism and cerebral blood flow during sensorimotor activation. <i>Magnetic Resonance in Medicine</i> , <b>2003</b> , 50, 99-106	4.4	58
1639	Geometrical optimization of a phased array coil for high-resolution MR imaging of the carotid arteries. <i>Magnetic Resonance in Medicine</i> , <b>2003</b> , 50, 439-43	4.4	18
1638	Block regional off-resonance correction (BRORC): a fast and effective deblurring method for spiral imaging. <i>Magnetic Resonance in Medicine</i> , <b>2003</b> , 50, 643-8	4.4	20
1637	Ultimate intrinsic signal-to-noise ratio for parallel MRI: electromagnetic field considerations. <i>Magnetic Resonance in Medicine</i> , <b>2003</b> , 50, 1018-30	4.4	185
1636	Dixon techniques in spiral trajectories with off-resonance correction: a new approach for fat signal suppression without spatial-spectral RF pulses. <i>Magnetic Resonance in Medicine</i> , <b>2003</b> , 50, 915-24	4.4	24
1635	A four-element phased array coil for high resolution and parallel MR imaging of the knee. <b>2003</b> , 21, 961-7		17
1634	SNR-optimality of sum-of-squares reconstruction for phased-array magnetic resonance imaging. <b>2003</b> , 163, 121-3		62
1633	Tips and tricks of fetal MR imaging. <b>2003</b> , 41, 729-45		17
1632	Implications of SENSE MR in routine clinical practice. <b>2003</b> , 46, 3-27		132

1631	Superconducting single and phased-array probes for clinical and research MRI. <b>2003</b> , 13, 1050-1055	15
1630	A unified variational approach to denoising and bias correction in MR. <b>2003</b> , 18, 148-59	17
1629	Petal resonator band coil.	
1628	An MR transceive phased array designed for spinal cord imaging at 3 Tesla: preliminary investigations of spinal cord imaging at 3 T. <b>2003</b> , 38, 428-35	6
1627	Protocols in sports magnetic resonance imaging. <b>2003</b> , 14, 3-23	9
1626	In vivo prostate magnetic resonance imaging and magnetic resonance spectroscopy at 3 Tesla using a transceive pelvic phased array coil: preliminary results. <b>2003</b> , 38, 443-51	31
1625	Comparison of cardiac MRI on 1.5 and 3.0 Tesla clinical whole body systems. <b>2003</b> , 38, 436-42	49
1624	Molecular and functional imaging of cancer: advances in MRI and MRS. <b>2004</b> , 386, 3-60	53
1623	Application of three-tesla magnetic resonance imaging for diagnosis and surgery of sellar lesions. <b>2004</b> , 100, 278-86	89
1622	Shortening MR image acquisition time for volumetric interpolated breath-hold examination with a recently developed parallel imaging reconstruction technique: clinical feasibility. <b>2004</b> , 230, 589-94	62
1621	MR imaging: its development and the recent Nobel Prize. <b>2004</b> , 231, 628-31	9
1620	Parallel imaging: system design and limitations.	4
1619	Manipulation in MRI devices using electrostrictive polymer actuators: with an application to reconfigurable imaging coils. <b>2004</b> ,	30
1618	Mixture of competitive linear models for phased-array magnetic resonance imaging.	
1617	Noise properties of a NMR transceiver coil array. <b>2004</b> , 171, 151-6	20
1616	[Comparison of high resolution whole-body MRI using parallel imaging and PET-CT. First experiences with a 32-channel MRI system]. <b>2004</b> , 44, 889-98	17
1615	Conductor geometry and capacitor quality for performance optimization of low-frequency birdcage coils. <b>2004</b> , 20B, 9-16	36
1614	Floating shield current suppression trap. <b>2004</b> , 21B, 26-31	44

1613	A method for preamplifier-decoupling improvement in quadrature phased-array coils. <b>2004</b> , 19, 255-8		10
1612	Cardiac magnetic resonance parallel imaging at 3.0 Tesla: technical feasibility and advantages. <b>2004</b> , 19, 291-7		29
1611	MRI of atherosclerosis. <b>2004</b> , 19, 710-9		114
1610	Image construction methods for phased array magnetic resonance imaging. <b>2004</b> , 20, 306-14		16
1609	T2-weighted spine imaging with a fast three-point dixon technique: comparison with chemical shift selective fat suppression. <b>2004</b> , 20, 1025-9		42
1608	The SENSE ghost: field-of-view restrictions for SENSE imaging. <b>2004</b> , 20, 1046-51		37
1607	Self-gated cardiac cine MRI. <i>Magnetic Resonance in Medicine</i> , <b>2004</b> , 51, 93-102	4.4	313
1606	Lumped-element planar strip array (LPSA) for parallel MRI. <i>Magnetic Resonance in Medicine</i> , <b>2004</b> , 51, 172-83	4.4	34
1605	Multicoil Dixon chemical species separation with an iterative least-squares estimation method. <i>Magnetic Resonance in Medicine</i> , <b>2004</b> , 51, 35-45	4.4	403
1604	Signal-to-noise ratio and parallel imaging performance of a 16-channel receive-only brain coil array at 3.0 Tesla. <i>Magnetic Resonance in Medicine</i> , <b>2004</b> , 51, 22-6	4.4	157
1603	Artifact suppression in imaging of myocardial infarction using B1-weighted phased-array combined phase-sensitive inversion recovery. <i>Magnetic Resonance in Medicine</i> , <b>2004</b> , 51, 408-12	4.4	18
1602	Scalable multichannel MRI data acquisition system. <i>Magnetic Resonance in Medicine</i> , <b>2004</b> , 51, 165-71	4.4	64
1601	Novel RF coil geometry for lower extremity imaging. <i>Magnetic Resonance in Medicine</i> , <b>2004</b> , 51, 635-9	4.4	5
1600	Parallel excitation with an array of transmit coils. <i>Magnetic Resonance in Medicine</i> , <b>2004</b> , 51, 775-84	4.4	467
1599	Active device tracking and high-resolution intravascular MRI using a novel catheter-based, opposed-solenoid phased array coil. <i>Magnetic Resonance in Medicine</i> , <b>2004</b> , 51, 668-75	4.4	87
1598	Analysis of multiple-acquisition SSFP. <i>Magnetic Resonance in Medicine</i> , <b>2004</b> , 51, 1038-47	4.4	143
1597	High-resolution multistation peripheral MR angiography using undersampled projection reconstruction imaging. <i>Magnetic Resonance in Medicine</i> , <b>2004</b> , 52, 204-8	4.4	9
1596	Correction for gradient nonlinearity in continuously moving table MR imaging. <i>Magnetic Resonance in Medicine</i> , <b>2004</b> , 52, 181-7	4.4	25

1595	Effects of inductive coupling on parallel MR image reconstructions. <i>Magnetic Resonance in Medicine</i> , <b>2004</b> , 52, 628-39	4.4	42
1594	Noise-adaptive nonlinear diffusion filtering of MR images with spatially varying noise levels. <i>Magnetic Resonance in Medicine</i> , <b>2004</b> , 52, 798-806	4.4	87
1593	Highly parallel volumetric imaging with a 32-element RF coil array. <i>Magnetic Resonance in Medicine</i> , <b>2004</b> , 52, 869-77	4.4	123
1592	Large field-of-view real-time MRI with a 32-channel system. <i>Magnetic Resonance in Medicine</i> , <b>2004</b> , 52, 878-84	4.4	42
1591	Field-of-view limitations in parallel imaging. <i>Magnetic Resonance in Medicine</i> , <b>2004</b> , 52, 1118-26	4.4	468
1590	Point spread function mapping with parallel imaging techniques and high acceleration factors: fast, robust, and flexible method for echo-planar imaging distortion correction. <i>Magnetic Resonance in Medicine</i> , <b>2004</b> , 52, 1156-66	4.4	296
1589	4 T actively detunable transmit/receive transverse electromagnetic coil and 4-channel receive-only phased array for (1)H human brain studies. <i>Magnetic Resonance in Medicine</i> , <b>2004</b> , 52, 1459-64	4.4	16
1588	Fast Spiral two-point Dixon technique using block regional off-resonance correction. <i>Magnetic Resonance in Medicine</i> , <b>2004</b> , 52, 1342-50	4.4	4
1587	Parallel imaging performance as a function of field strength--an experimental investigation using electrodynamic scaling. <i>Magnetic Resonance in Medicine</i> , <b>2004</b> , 52, 953-64	4.4	156
1586	POCSENSE: POCS-based reconstruction for sensitivity encoded magnetic resonance imaging. <i>Magnetic Resonance in Medicine</i> , <b>2004</b> , 52, 1397-406	4.4	105
1585	Parallel magnetic resonance imaging using coils with localized sensitivities. <b>2004</b> , 22, 1025-9		2
1584	Design of a capacitively decoupled transmit/receive NMR phased array for high field microscopy at 14.1T. <b>2004</b> , 170, 149-55		58
1583	A 'Hi-Fi' Cartesian feedback spectrometer for precise quantitation and superior performance. <b>2004</b> , 171, 57-63		18
1582	The NMR multi-transmit phased array: a Cartesian feedback approach. <b>2004</b> , 171, 64-70		59
1581	Asymptotic SNR-performance of some image combination techniques for phased-array MRI. <b>2004</b> , 84, 997-1003		4
1580	Measuring the signal-to-noise ratio in magnetic resonance imaging: a caveat. <b>2004</b> , 84, 1035-1040		19
1579	Anatomical and functional MR imaging in the macaque monkey using a vertical large-bore 7 Tesla setup. <b>2004</b> , 22, 1343-59		76
1578	Matched filter vs. least-squares for multiple-coil MRI.		



1577	The brachial plexus: normal anatomy, pathology, and MR imaging. <b>2004</b> , 14, 59-85, vii-viii	54
1576	Parallel imaging at high field strength: synergies and joint potential. <b>2004</b> , 15, 237-44	114
1575	Current concepts and advances in clinical parallel magnetic resonance imaging. <b>2004</b> , 15, 129-58	62
1574	Parallel imaging in MR angiography. <b>2004</b> , 15, 169-85	55
1573	Parallel imaging techniques in functional MRI. <b>2004</b> , 15, 255-65	23
1572	Transmitting focused B/sub 1/ field and SENSE reconstruction using an 8-element transceive torso phased array coil. <b>2004</b> , 2004, 1068-71	
1571	High-resolution whole-body magnetic resonance image tumor staging with the use of parallel imaging versus dual-modality positron emission tomography-computed tomography: experience on a 32-channel system. <b>2005</b> , 40, 743-53	128
1570	Spectral analysis of multichannel MRS data. <b>2005</b> , 175, 79-91	27
1569	Correction of concomitant gradient artifacts in experimental microtesla MRI. <b>2005</b> , 177, 274-84	26
1568	Relative RF coil performance in carotid imaging. <b>2005</b> , 23, 629-39	23
1567	Experimental development of a petal resonator surface coil. <b>2005</b> , 23, 1027-33	5
1566	A tour of accelerated parallel MR imaging from a linear systems perspective. <b>2005</b> , 27A, 17-37	41
1565	Design of a four-coil surface array for in vivo magnetic resonance microscopy at 600 MHz. <b>2005</b> , 24B, 6-14	7
1564	A group theory approach to RF coil design. <b>2005</b> , 25B, 42-52	5
1563	Designer RF field profiles for parallel imaging applications. <b>2005</b> , 27B, 75-85	1
1562	Reengineered helmet coil for human brain studies at 3 Tesla. <b>2005</b> , 27B, 64-74	6
1561	An automated algorithm for combining multivoxel MRS data acquired with phased-array coils. <b>2005</b> , 21, 317-22	26
1560	Multislice MR first-pass myocardial perfusion imaging: impact of the receiver coil array. <b>2005</b> , 21, 310-6	7

1559	Parallel acquisition techniques for accelerated volumetric interpolated breath-hold examination magnetic resonance imaging of the upper abdomen: assessment of image quality and lesion conspicuity. <b>2005</b> , 21, 376-82		67
1558	Multi-contrast delayed enhancement provides improved contrast between myocardial infarction and blood pool. <b>2005</b> , 22, 605-13		41
1557	Technological advances in MRI measurement of brain perfusion. <b>2005</b> , 22, 751-3		24
1556	Continuously moving table SENSE imaging. <i>Magnetic Resonance in Medicine</i> , <b>2005</b> , 53, 217-20	4.4	22
1555	Transmit and receive transmission line arrays for 7 Tesla parallel imaging. <i>Magnetic Resonance in Medicine</i> , <b>2005</b> , 53, 434-45	4.4	313
1554	Preliminary investigation of respiratory self-gating for free-breathing segmented cine MRI. <i>Magnetic Resonance in Medicine</i> , <b>2005</b> , 53, 159-68	4.4	156
1553	Motion-corrected free-breathing delayed enhancement imaging of myocardial infarction. <i>Magnetic Resonance in Medicine</i> , <b>2005</b> , 53, 194-200	4.4	90
1552	In vivo method for correcting transmit/receive nonuniformities with phased array coils. <i>Magnetic Resonance in Medicine</i> , <b>2005</b> , 53, 666-74	4.4	90
1551	Partially parallel imaging with phase-sensitive data: Increased temporal resolution for magnetic resonance temperature imaging. <i>Magnetic Resonance in Medicine</i> , <b>2005</b> , 53, 658-65	4.4	33
1550	Free breathing 3D balanced FFE coronary magnetic resonance angiography with prolonged cardiac acquisition windows and intra-RR motion correction. <i>Magnetic Resonance in Medicine</i> , <b>2005</b> , 53, 719-23	4.4	23
1549	Multislice and multicoil phase-sensitive inversion-recovery imaging. <i>Magnetic Resonance in Medicine</i> , <b>2005</b> , 53, 904-10	4.4	14
1548	Open half-volume quadrature transverse electromagnetic coil for high-field magnetic resonance imaging. <i>Magnetic Resonance in Medicine</i> , <b>2005</b> , 53, 937-43	4.4	18
1547	Focused, eight-element transceive phased array coil for parallel magnetic resonance imaging of the chest--theoretical considerations. <i>Magnetic Resonance in Medicine</i> , <b>2005</b> , 53, 1251-7	4.4	33
1546	Parallel imaging for NMR microscopy at 14.1 Tesla. <i>Magnetic Resonance in Medicine</i> , <b>2005</b> , 54, 9-13	4.4	28
1545	Eight-channel phased array coil and detunable TEM volume coil for 7 T brain imaging. <i>Magnetic Resonance in Medicine</i> , <b>2005</b> , 54, 235-40	4.4	76
1544	Functional MRI using regularized parallel imaging acquisition. <i>Magnetic Resonance in Medicine</i> , <b>2005</b> , 54, 343-53	4.4	44
1543	64-channel array coil for single echo acquisition magnetic resonance imaging. <i>Magnetic Resonance in Medicine</i> , <b>2005</b> , 54, 386-92	4.4	95
1542	Continuous ASL (CASL) perfusion MRI with an array coil and parallel imaging at 3T. <i>Magnetic Resonance in Medicine</i> , <b>2005</b> , 54, 732-7	4.4	72

1541	Transceive surface coil array for magnetic resonance imaging of the human brain at 4 T. <i>Magnetic Resonance in Medicine</i> , <b>2005</b> , 54, 499-503	4.4	38
1540	Homodyne reconstruction and IDEAL water-fat decomposition. <i>Magnetic Resonance in Medicine</i> , <b>2005</b> , 54, 586-93	4.4	64
1539	Broadband multicoil imaging using multiple demodulation hardware: a feasibility study. <i>Magnetic Resonance in Medicine</i> , <b>2005</b> , 54, 669-76	4.4	12
1538	Improved data reconstruction method for GRAPPA. <i>Magnetic Resonance in Medicine</i> , <b>2005</b> , 54, 738-42	4.4	83
1537	Ghost artifact removal using a parallel imaging approach. <i>Magnetic Resonance in Medicine</i> , <b>2005</b> , 54, 1002-9	4.4	24
1536	Concentric coil arrays for parallel MRI. <i>Magnetic Resonance in Medicine</i> , <b>2005</b> , 54, 1248-60	4.4	15
1535	Simultaneous phase correction and SENSE reconstruction for navigated multi-shot DWI with non-cartesian k-space sampling. <i>Magnetic Resonance in Medicine</i> , <b>2005</b> , 54, 1412-22	4.4	78
1534	B(1) destructive interferences and spatial phase patterns at 7 T with a head transceiver array coil. <i>Magnetic Resonance in Medicine</i> , <b>2005</b> , 54, 1503-18	4.4	353
1533	Image reconstruction in SNR units: a general method for SNR measurement. <i>Magnetic Resonance in Medicine</i> , <b>2005</b> , 54, 1439-47	4.4	359
1532	Combination of optimized transmit arrays and some receive array reconstruction methods can yield homogeneous images at very high frequencies. <i>Magnetic Resonance in Medicine</i> , <b>2005</b> , 54, 1327-32	4.4	93
1531	Accelerating cine phase-contrast flow measurements using k-t BLAST and k-t SENSE. <i>Magnetic Resonance in Medicine</i> , <b>2005</b> , 54, 1430-8	4.4	115
1530	Application of phase consistency to improve time efficiency and image quality in dual echo black-blood carotid angiography. <b>2005</b> , 23, 711-22		
1529	Comparison of different methods for combining phase-contrast images obtained with multiple coils. <b>2005</b> , 23, 795-9		14
1528	Efficient foldover suppression using SENSE. <b>2005</b> , 18, 63-8		9
1527	Versatile coil design and positioning of transverse-field RF surface coils for clinical 1.5-T MRI applications. <b>2005</b> , 18, 69-75		14
1526	Design considerations and coil comparisons for 7 T brain imaging. <b>2005</b> , 29, 19-37		40
1525	In vivomagnetic resonance imaging: insights into structure and function of the central nervous system. <b>2005</b> , 16, R17-R36		6
1524	Improved SNR of phased-array PERES coils via simulation study. <b>2005</b> , 50, N215-25		2

1523	Using Large Arrays for SNR Improvement on Receiver Limited MRI Systems. <b>2005</b> , 2005, 4286-9	3
1522	A 24-ch Phased-Array System for Hyperpolarized Helium Gas Parallel MRI to Evaluate Lung Functions. <b>2005</b> , 2005, 4278-81	9
1521	Coil sensitivity estimation for optimal SNR reconstruction and intensity inhomogeneity correction in phased array MR imaging. <b>2005</b> , 19, 603-14	19
1520	Study of optimal separation of two circular phased-array coils via an equivalent circuit. <b>2005</b> , 2005, 4282-5	0
1519	ICASENSE: Sensitivity mapping using Independent Component Analysis for parallel Magnetic Resonance Imaging. <b>2005</b> , 2005, 4275-7	
1518	Frequency-selective analysis of multichannel magnetic resonance spectroscopy data. <b>2005</b> , 2005, 2371-4	1
1517	A New Definition of Mutual Impedance between Two Coils for Simultaneous MRI Signal Reception. <b>2005</b> , 2005, 1321-3	
1516	SNR analysis for phased-array MRI.	
1515	Three-dimensional contrast-enhanced MR angiography of the thoraco-abdominal vessels. <b>2005</b> , 13, 359-80	31
1514	Arterial spin labeling blood flow magnetic resonance imaging for the characterization of metastatic renal cell carcinoma(1). <b>2005</b> , 12, 347-57	101
1513	Small bowel. <b>2005</b> , 13, 331-48	18
1512	An effective compensation method for the mutual coupling effect in phased arrays for magnetic resonance imaging. <b>2005</b> , 53, 3576-3583	16
1511	3T MR imaging of the musculoskeletal system (Part I): considerations, coils, and challenges. <b>2006</b> , 14, 27-40	36
1510	MRSI data reconstruction with Generalized SENSE.	
1509	Improving whole brain structural MRI at 4.7 Tesla using 4 irregularly shaped receiver coils. <b>2006</b> , 32, 1176-84	23
1508	A Review on MR Image Intensity Inhomogeneity Correction. <b>2006</b> , 2006, 49515	123
1507	Simulation of g factor for size optimization and coupling in phased array coil design*. <b>2006</b> , 16, 120-124	1
1506	Sensitivity enhancement and compensation of RF penetration artifact with planar actively detunable quadrature surface coil. <b>2006</b> , 24, 81-7	2

1505	In vivo MRI using liquid nitrogen cooled phased array coil at 3.0 T. <b>2006</b> , 24, 819-23	11
1504	Noise reduction in multiple-echo data sets using singular value decomposition. <b>2006</b> , 24, 849-56	51
1503	Design of an inductively decoupled microstrip array at 9.4 T. <b>2006</b> , 182, 126-32	40
1502	Whole-body MRI and PET-CT in the management of cancer patients. <b>2006</b> , 16, 1216-25	57
1501	In vivo proton MR spectroscopy of the human brain. <b>2006</b> , 49, 99-128	93
1500	Analytically exact correction scheme for signal extraction from noisy magnitude MR signals. <b>2006</b> , 179, 317-22	211
1499	Potential advantage of higher-order modes of birdcage coil for parallel imaging. <b>2006</b> , 182, 160-7	8
1498	Application of perceptual difference model on regularization techniques of parallel MR imaging. <b>2006</b> , 24, 123-32	15
1497	Cardiac-synchronized gadolinium-enhanced MR angiography: preliminary experience for the evaluation of the thoracic aorta. <b>2006</b> , 24, 241-8	5
1496	A new strategy for respiration compensation, applied toward 3D free-breathing cardiac MRI. <b>2006</b> , 24, 727-37	6
1495	Magnetron surface coil for brain MR imaging. <b>2006</b> , 37, 804-7	7
1494	Translational neuroscience and magnetic-resonance microscopy. <b>2006</b> , 5, 536-44	32
1493	A new decoupling method for quadrature coils in magnetic resonance imaging. <b>2006</b> , 53, 2114-6	14
1492	High-Field Magnetic Resonance Imaging With Reduced Field/Tissue RF Artefacts: Modeling Study Using Hybrid MoM/FEM and FDTD Technique. <b>2006</b> , 48, 628-633	14
1491	Encoding and reconstruction in parallel MRI. <b>2006</b> , 19, 288-99	109
1490	Phased array ghost elimination. <b>2006</b> , 19, 352-61	25
1489	Incoherent artefact correction using PPI. <b>2006</b> , 19, 362-7	
1488	An introduction to coil array design for parallel MRI. <b>2006</b> , 19, 300-15	86

1487	Autocalibrated coil sensitivity estimation for parallel imaging. <b>2006</b> , 19, 316-24		40
1486	Parallel RF transmission in MRI. <b>2006</b> , 19, 393-400		152
1485	Potential and feasibility of parallel MRI at high field. <b>2006</b> , 19, 368-78		96
1484	Parallel imaging. <b>2006</b> , 19, 287		
1483	MRI of atherosclerosis in clinical trials. <b>2006</b> , 19, 636-54		109
1482	A simple method to calculate the signal-to-noise ratio of a circular-shaped coil for MRI. <b>2006</b> , 28A, 422-429		18
1481	Eigenmode analysis for understanding phased array coils and their limits. <b>2006</b> , 29B, 42-49		19
1480	Transmit-receive coil-arrays at 17.6T, configurations for 1H, 23Na, and 31P MRI. <b>2006</b> , 29B, 20-27		17
1479	Effect of tuning capacitor placement on mutual coupling for MRI array coils. <b>2006</b> , 29B, 50-54		2
1478	Multiple-acquisition parallel imaging combined with a transceive array for the amelioration of high-field RF distortion: A modeling study. <b>2006</b> , 29B, 95-105		10
1477	Comparison of parallel imaging performance between planar strip arrays and surface loop arrays at high field based on simulation. <b>2006</b> , 29B, 84-94		1
1476	k-t BLAST reconstruction from non-Cartesian k-t space sampling. <i>Magnetic Resonance in Medicine</i> , <b>2006</b> , 55, 85-91	4.4	41
1475	Advances in locally constrained k-space-based parallel MRI. <i>Magnetic Resonance in Medicine</i> , <b>2006</b> , 55, 431-8	4.4	30
1474	Characterizing radial undersampling artifacts for cardiac applications. <i>Magnetic Resonance in Medicine</i> , <b>2006</b> , 55, 396-403	4.4	26
1473	Bunched phase encoding (BPE): a new fast data acquisition method in MRI. <i>Magnetic Resonance in Medicine</i> , <b>2006</b> , 55, 633-48	4.4	31
1472	Advantages of parallel imaging in conjunction with hyperpolarized helium—a new approach to MRI of the lung. <i>Magnetic Resonance in Medicine</i> , <b>2006</b> , 55, 1132-41	4.4	44
1471	Unaliasing lipid contamination for MR spectroscopic imaging of gliomas at 3T using sensitivity encoding (SENSE). <i>Magnetic Resonance in Medicine</i> , <b>2006</b> , 55, 1164-9	4.4	16
1470	Three-dimensional radial ultrashort echo-time imaging with T2 adapted sampling. <i>Magnetic Resonance in Medicine</i> , <b>2006</b> , 55, 1075-82	4.4	213

1469	Toward single breath-hold whole-heart coverage coronary MRA using highly accelerated parallel imaging with a 32-channel MR system. <i>Magnetic Resonance in Medicine</i> , <b>2006</b> , 56, 167-76	4.4	498
1468	32-channel 3 Tesla receive-only phased-array head coil with soccer-ball element geometry. <i>Magnetic Resonance in Medicine</i> , <b>2006</b> , 56, 216-23	4.4	300
1467	High magnetic field water and metabolite proton T1 and T2 relaxation in rat brain in vivo. <i>Magnetic Resonance in Medicine</i> , <b>2006</b> , 56, 386-94	4.4	231
1466	SENSE optimization of a transceive surface coil array for MRI at 4 T. <i>Magnetic Resonance in Medicine</i> , <b>2006</b> , 56, 630-6	4.4	9
1465	Dynamic coil selection for real-time imaging in interventional MRI. <i>Magnetic Resonance in Medicine</i> , <b>2006</b> , 56, 1156-62	4.4	11
1464	Autocalibrating parallel imaging of in vivo trabecular bone microarchitecture at 3 Tesla. <i>Magnetic Resonance in Medicine</i> , <b>2006</b> , 56, 1075-84	4.4	30
1463	2D partially parallel imaging with k-space surrounding neighbors-based data reconstruction. <i>Magnetic Resonance in Medicine</i> , <b>2006</b> , 56, 1389-96	4.4	19
1462	Free-breathing whole-heart coronary MR angiography on a clinical scanner in four minutes. <b>2006</b> , 23, 752-6		46
1461	Comparing real-world advantages for the clinical neuroradiologist between a high field (3 T), a phased array (1.5 T) vs. a single-channel 1.5-T MR system. <b>2006</b> , 24, 16-24		9
1460	Accelerated volumetric MRI with a SENSE/GRAPPA combination. <b>2006</b> , 24, 444-50		59
1459	SENSE imaging with a quadrature half-volume transverse electromagnetic (TEM) coil at 4T. <b>2006</b> , 24, 934-8		3
1458	T1- and T2-weighted fast spin-echo imaging of the brachial plexus and cervical spine with IDEAL water-fat separation. <b>2006</b> , 24, 825-32		44
1457	Receive coil arrays and parallel imaging for functional magnetic resonance imaging of the human brain. <b>2006</b> , 2006, 17-20		4
1456	An inverse method to design RF coil arrays optimized for SENSE imaging. <b>2006</b> , 51, 6457-69		7
1455	SNR of Multi-Channel RF Coil Arrays for High-Field Brain Functional Magnetic Resonance Imaging. <b>2006</b> ,		
1454	Reciprocity and gyrotropism in magnetic resonance transduction. <b>2006</b> , 74,		12
1453	An Optimal Algorithm for Parallel MRI in Presence of Motion Artifacts. <b>2007</b> ,		1
1452	A dedicated two-element phased array receiver coil for high resolution MRI of rat knee cartilage at 7T. <b>2007</b> , 2007, 3886-9		1

1451	High-field MRI of brain cortical substructure based on signal phase. <b>2007</b> , 104, 11796-801	541
1450	High-resolution 3D cartilage imaging with IDEAL SPGR at 3 T. <b>2007</b> , 189, 1510-5	38
1449	An inverse method for designing RF phased array coils in MRI theoretical considerations. <b>2007</b> , 18, 245-259	9
1448	Body MR imaging at 3.0 T: understanding the opportunities and challenges. <b>2007</b> , 27, 1445-62; discussion 1462-4	108
1447	Four-channel magnetic resonance imaging receiver using frequency domain multiplexing. <b>2007</b> , 78, 015102	14
1446	A fast parallel imaging rotary phased array head coil with improved sensitivity profile deep in the center of the brain. <b>2007</b> , 2007, 504-7	1
1445	IMAGE RECONSTRUCTION IN THE GRAPPA ALGORITHM FORMALISM. <b>2007</b> ,	
1444	NMR Spectroscopy of the Human Heart. <b>2007</b> ,	3
1443	Spatial Encoding Using Multiple rf Coils: SMASH Imaging and Parallel MRI. <b>2007</b> ,	1
1442	Whole Body Magnetic Resonance Spectrometers: All-Digital Transmit/Receive Systems. <b>2007</b> ,	
1441	New horizons in MR technology: RF coil designs and trends. <b>2007</b> , 6, 29-42	48
1440	Multifrequency Coils for Whole Body Studies. <b>2007</b> ,	
1439	Surface and Other Local Coils for In Vivo Studies. <b>2007</b> ,	1
1438	High-resolution whole-body magnetic resonance imaging applications at 1.5 and 3 Tesla: a comparative study. <b>2007</b> , 42, 449-59	76
1437	Whole-body contrast-enhanced magnetic resonance angiography: new advances at 3.0 T. <b>2007</b> , 18, 127-34	7
1436	Instrumentation en IRM. Critères de choix et implantation d'un équipement. <b>2007</b> , 2, 1-20	
1435	Experimental nerve imaging at 1.5-T. <b>2007</b> , 43, 21-8	8
1434	MR-Encephalography: Fast multi-channel monitoring of brain physiology with magnetic resonance. <b>2007</b> , 34, 212-9	69



1433	Radiofrequency Systems and Coils for MRI and MRS. <b>2007</b> ,		1
1432	Impact of an improved combination of signals from array coils in diffusion tensor imaging. <b>2007</b> , 26, 1428-36		15
1431	Parallel magnetic resonance imaging. <b>2007</b> , 52, R15-55		232
1430	Cutting-edge imaging of the spine. <b>2007</b> , 17, 117-36		40
1429	Radio frequency coil technology for small-animal MRI. <b>2007</b> , 20, 304-25		141
1428	Mouse MRI using phased-array coils. <b>2007</b> , 20, 326-34		32
1427	Measuring the effect of field strength on noise amplification factor. <b>2007</b> , 31B, 51-59		3
1426	An eight-channel, nonoverlapping phased array coil with capacitive decoupling for parallel MRI at 3 T. <b>2007</b> , 31B, 37-43		36
1425	PULSAR: A Matlab toolbox for parallel magnetic resonance imaging using array coils and multiple channel receivers. <b>2007</b> , 31B, 24-36		45
1424	Simple partial volume transceive coils for in vivo 1H MR studies at high magnetic fields. <b>2007</b> , 31B, 71-85		6
1423	Interconnecting L/C components for decoupling and its application to low-field open MRI array. <b>2007</b> , 31B, 116-126		26
1422	Comparison of local and global arrays for MRI. <b>2007</b> , 31B, 86-94		3
1421	Magnetostatic simulation for accurate design of low field MRI phased-array coils. <b>2007</b> , 31B, 140-146		29
1420	Impact of coil design on the contrast-to-noise ratio, precision, and consistency of quantitative cartilage morphometry at 3 Tesla: a pilot study for the osteoarthritis initiative. <i>Magnetic Resonance in Medicine</i> , <b>2007</b> , 57, 448-54	4.4	59
1419	Transceive surface coil array for MRI of the human prostate at 4T. <i>Magnetic Resonance in Medicine</i> , <b>2007</b> , 57, 455-8	4.4	13
1418	Optimized and combined T1 and B1 mapping technique for fast and accurate T1 quantification in contrast-enhanced abdominal MRI. <i>Magnetic Resonance in Medicine</i> , <b>2007</b> , 57, 568-76	4.4	98
1417	Perfusion MRI with radial acquisition for arterial input function assessment. <i>Magnetic Resonance in Medicine</i> , <b>2007</b> , 57, 821-7	4.4	27
1416	T2-prepared SSFP improves diagnostic confidence in edema imaging in acute myocardial infarction compared to turbo spin echo. <i>Magnetic Resonance in Medicine</i> , <b>2007</b> , 57, 891-7	4.4	186

1415	Array compression for MRI with large coil arrays. <i>Magnetic Resonance in Medicine</i> , <b>2007</b> , 57, 1131-9	4.4	153
1414	High-field actively detuneable transverse electromagnetic (TEM) coil with low-bias voltage for high-power RF transmission. <i>Magnetic Resonance in Medicine</i> , <b>2007</b> , 57, 1190-5	4.4	6
1413	Eight-channel transmit/receive body MRI coil at 3T. <i>Magnetic Resonance in Medicine</i> , <b>2007</b> , 58, 381-9	4.4	92
1412	High-resolution time-resolved contrast-enhanced MR abdominal and pulmonary angiography using a spiral-TRICKS sequence. <i>Magnetic Resonance in Medicine</i> , <b>2007</b> , 58, 631-5	4.4	30
1411	On the noise correlation matrix for multiple radio frequency coils. <i>Magnetic Resonance in Medicine</i> , <b>2007</b> , 58, 218-24	4.4	15
1410	Parallel imaging reconstruction for arbitrary trajectories using k-space sparse matrices (kSPA). <i>Magnetic Resonance in Medicine</i> , <b>2007</b> , 58, 1171-81	4.4	33
1409	In vivo bone and cartilage MRI using fully-balanced steady-state free-precession at 7 tesla. <i>Magnetic Resonance in Medicine</i> , <b>2007</b> , 58, 1294-8	4.4	52
1408	3.0 Tesla imaging of the musculoskeletal system. <b>2007</b> , 25, 245-61		54
1407	Projection-based estimation and nonuniformity correction of sensitivity profiles in phased-array surface coils. <b>2007</b> , 25, 588-97		11
1406	Measurement of signal-to-noise ratios in MR images: influence of multichannel coils, parallel imaging, and reconstruction filters. <b>2007</b> , 26, 375-85		650
1405	Design of a birdcage array for lower extremity angiography. <b>2007</b> , 26, 589-97		3
1404	A practical method for 2D multiple-animal MRI. <b>2007</b> , 26, 1162-6		13
1403	Parallel magnetic resonance imaging. <b>2007</b> , 4, 499-510		10
1402	Optimal coil array design: the two-coil case. <b>2007</b> , 25, 671-7		2
1401	Optimization of sensitivity encoding with arbitrary k-space trajectories. <b>2007</b> , 25, 1123-9		9
1400	The rapid and automatic combination of proton MRSI data using multi-channel coils without water suppression. <b>2007</b> , 25, 1148-54		36
1399	Signal-to-noise ratio comparison of phased-array vs. implantable coil for rat spinal cord MRI. <b>2007</b> , 25, 1215-21		10
1398	A transmit/receive volume strip array and its mode mixing theory in MRI. <b>2007</b> , 25, 1312-32		2

1397	Recent advances in magnetic resonance neurospectroscopy. <b>2007</b> , 4, 330-45	68
1396	4 T Actively detuneable double-tuned <sup>1</sup> H/ <sup>31</sup> P head volume coil and four-channel <sup>31</sup> P phased array for human brain spectroscopy. <b>2007</b> , 186, 341-6	34
1395	A realization of digital wireless transmission for MRI signals based on 802.11b. <b>2007</b> , 186, 358-63	22
1394	Screening for bone metastases: whole-body MRI using a 32-channel system versus dual-modality PET-CT. <b>2007</b> , 17, 939-49	167
1393	Imagerie par résonance magnétique (IRM) corps entier en cancérologie. <b>2007</b> , 9, 286-293	
1392	Capacitively decoupled tunable loop microstrip (TLM) array at 7 T. <b>2007</b> , 25, 418-24	24
1391	Parallel MRI at microtesla fields. <b>2008</b> , 192, 197-208	59
1390	Optimal phase difference reconstruction: comparison of two methods. <b>2008</b> , 26, 142-5	20
1389	Reconstruction in image space using basis functions for partially parallel imaging. <b>2008</b> , 26, 461-73	3
1388	Towards a complete coil array. <b>2008</b> , 26, 1310-5	11
1387	Overcoming high-field RF problems with non-magnetic Cartesian feedback transceivers. <b>2008</b> , 21, 15-29	17
1386	Optimized quadrature surface coil designs. <b>2008</b> , 21, 41-52	41
1385	Comparison of three commercially available radio frequency coils for human brain imaging at 3 Tesla. <b>2008</b> , 21, 53-61	11
1384	Automatic coil selection for channel reduction in SENSE-based parallel imaging. <b>2008</b> , 21, 187-96	18
1383	Principles of whole-body continuously-moving-table MRI. <b>2008</b> , 28, 1-12	32
1382	T2 and T2* quantification using optimal B1 image reconstruction for multicoil arrays. <b>2008</b> , 28, 278-81	10
1381	Accelerated bilateral dynamic contrast-enhanced 3D spiral breast MRI using TSENSE. <b>2008</b> , 28, 1425-34	15
1380	128-channel body MRI with a flexible high-density receiver-coil array. <b>2008</b> , 28, 1219-25	82

1379	On optimality of parallel MRI reconstruction in k-space. <i>Magnetic Resonance in Medicine</i> , <b>2008</b> , 59, 156-64	4.4	34
1378	A geometrically adjustable 16-channel transmit/receive transmission line array for improved RF efficiency and parallel imaging performance at 7 Tesla. <i>Magnetic Resonance in Medicine</i> , <b>2008</b> , 59, 590-7	4.4	157
1377	Ultra-fast and accurate assessment of cardiac function in rats using accelerated MRI at 9.4 Tesla. <i>Magnetic Resonance in Medicine</i> , <b>2008</b> , 59, 636-41	4.4	26
1376	Joint estimation of water/fat images and field inhomogeneity map. <i>Magnetic Resonance in Medicine</i> , <b>2008</b> , 59, 571-80	4.4	142
1375	Multiresolution field map estimation using golden section search for water-fat separation. <i>Magnetic Resonance in Medicine</i> , <b>2008</b> , 60, 236-44	4.4	62
1374	Water-fat separation with bipolar multiecho sequences. <i>Magnetic Resonance in Medicine</i> , <b>2008</b> , 60, 198-209	4.4	63
1373	A 128-channel receive-only cardiac coil for highly accelerated cardiac MRI at 3 Tesla. <i>Magnetic Resonance in Medicine</i> , <b>2008</b> , 59, 1431-9	4.4	120
1372	Performance of a miniature high-temperature superconducting (HTS) surface coil for in vivo microimaging of the mouse in a standard 1.5T clinical whole-body scanner. <i>Magnetic Resonance in Medicine</i> , <b>2008</b> , 60, 917-27	4.4	35
1371	Myocardial T*2 measurement in iron-overloaded thalassemia: an ex vivo study to investigate optimal methods of quantification. <i>Magnetic Resonance in Medicine</i> , <b>2008</b> , 60, 350-6	4.4	456
1370	Forward-looking intravascular orthogonal-solenoid coil for imaging and guidance in occlusive arterial disease. <i>Magnetic Resonance in Medicine</i> , <b>2008</b> , 60, 489-95	4.4	21
1369	Multiple-profile homogeneous image combination: application to phase-cycled SSFP and multicoil imaging. <i>Magnetic Resonance in Medicine</i> , <b>2008</b> , 60, 732-8	4.4	23
1368	Comprehensive quantification of signal-to-noise ratio and g-factor for image-based and k-space-based parallel imaging reconstructions. <i>Magnetic Resonance in Medicine</i> , <b>2008</b> , 60, 895-907	4.4	285
1367	A phase-sensitive method of flip angle mapping. <i>Magnetic Resonance in Medicine</i> , <b>2008</b> , 60, 889-94	4.4	120
1366	Susceptibility weighted imaging at ultra high magnetic field strengths: theoretical considerations and experimental results. <i>Magnetic Resonance in Medicine</i> , <b>2008</b> , 60, 1155-68	4.4	130
1365	Three-element phased-array coil for imaging of rat spinal cord at 7T. <i>Magnetic Resonance in Medicine</i> , <b>2008</b> , 60, 1498-505	4.4	7
1364	Magnetic resonance noise measurements and signal-quantization effects at very low noise levels. <i>Magnetic Resonance in Medicine</i> , <b>2008</b> , 60, 1477-87	4.4	13
1363	Modular design of receiver coil arrays. <b>2008</b> , 21, 644-54		23
1362	Low field elliptical MR coil array designed by FDTD. <b>2008</b> , 33B, 32-38		11

1361	A microstrip helmet coil for human brain imaging at high magnetic fields. <b>2008</b> , 33B, 94-108	8
1360	Homogeneous resonators for magnetic resonance: A review. <b>2008</b> , 11, 340-355	12
1359	Optimal phased-array combination for spectroscopy. <b>2008</b> , 26, 847-50	71
1358	Influence of multichannel combination, parallel imaging and other reconstruction techniques on MRI noise characteristics. <b>2008</b> , 26, 754-62	176
1357	Whole-body magnetic resonance angiography at 3.0 Tesla. <b>2008</b> , 18, 1473-83	7
1356	Involvement patterns in myotilinopathy and desminopathy detected by a novel neuromuscular whole-body MRI protocol. <b>2008</b> , 18, 2922-36	35
1355	A new decoupling method for phased arrays in magnetic resonance imaging: an experimental approach. <b>2008</b> , 2, 317	5
1354	Linear inverse problems in imaging. <b>2008</b> , 25, 84-99	70
1353	Basics of Magnetic Resonance Imaging and Magnetic Resonance Spectroscopy. <b>2008</b> , 3-167	11
1352	Quantification of pain-induced changes in cerebral blood flow by perfusion MRI. <b>2008</b> , 136, 85-96	62
1351	fMRI of the temporal lobe of the awake monkey at 7 T. <b>2008</b> , 39, 1081-93	29
1350	Development of a robust method for generating 7.0 T multichannel phase images of the brain with application to normal volunteers and patients with neurological diseases. <b>2008</b> , 39, 1682-92	144
1349	A New Method for Data Acquisition and Image Reconstruction in Parallel Magnetic Resonance Imaging. <b>2008</b> ,	5
1348	Transmission line effects on the coil noise correlation matrix in MRI. <b>2008</b> , 2008, 2032-5	1
1347	Preliminary experience with visualization of intracortical fibers by focused high-resolution diffusion tensor imaging. <b>2008</b> , 29, 146-50	29
1346	The technology of MRI--the next 10 years?. <b>2008</b> , 81, 601-17	84
1345	F TDM receiver for parallel acquisition of MRI. <b>2008</b> , 44, 454	1
1344	Combination of MR surface coil images using weighted constrained least squares. <b>2008</b> ,	1

1343	Magnetic resonance imaging (MRI) and spectroscopy (MRS) using simultaneous 2-channel acquisitions: Application for mouse brain examination by reconfiguration of a standard Bruker spectrometer. <b>2008,</b>	1
1342	An improved GRAPPA algorithm based on sensitivity estimation. <b>2009,</b>	2
1341	Channel reduction in massive array parallel MRI. <b>2009,</b> 2009, 4045-8	2
1340	Cortical enhanced tissue segmentation of neonatal brain MR images acquired by a dedicated phased array coil. <b>2009,</b>	2
1339	Highly parallel transmit/receive systems for dynamic MRI. <b>2009,</b> 2009, 4053-6	1
1338	Compressed sensing MRI with multi-channel data using multi-core processors. <b>2009,</b> 2009, 2684-7	3
1337	Novel multi-channel transmission line coil for high field magnetic resonance imaging. <b>2009,</b>	5
1336	Correction of venous contamination in time-of-flight MR angiography by using magnetic susceptibility maps. <b>2009,</b>	
1335	MREIT with SENSE acceleration using a dedicated RF coil design. <b>2009,</b> 30, 913-29	9
1334	Regionally optimized reconstruction for partially parallel imaging in MRI applications. <b>2009,</b> 28, 687-95	3
1333	A dedicated two-channel phased-array receiver coil for high-resolution MRI of the rat knee cartilage at 7 T. <b>2009,</b> 56, 2891-7	10
1332	The origins and present status of the radio wave controversy in NMR. <b>2009,</b> 34A, 193-216	17
1331	A rapidly rotating RF coil for MRI. <b>2009,</b> 35B, 59-66	15
1330	Double spiral array coil design for enhanced 3D parallel MRI at 1.5 Tesla. <b>2009,</b> 35B, 67-79	6
1329	Quadrature radio frequency coil for magnetic resonance imaging of the wrist at 4T. <b>2009,</b> 35B, 191-197	4
1328	Digital multiband receiver for magnetic resonance. <b>2009,</b> 35B, 210-220	6
1327	ToF-SWI: simultaneous time of flight and fully flow compensated susceptibility weighted imaging. <b>2009,</b> 29, 1478-84	62
1326	Mechanically adjustable coil array for wrist MRI. <i>Magnetic Resonance in Medicine</i> , <b>2009,</b> 61, 429-38	4.4 30

1325	Calculating T2 in images from a phased array receiver. <i>Magnetic Resonance in Medicine</i> , <b>2009</b> , 61, 962-9	4.4	10
1324	Ultra-low output impedance RF power amplifier for parallel excitation. <i>Magnetic Resonance in Medicine</i> , <b>2009</b> , 61, 952-61	4.4	23
1323	HTGRAPPA: real-time B1-weighted image domain TGRAPPA reconstruction. <i>Magnetic Resonance in Medicine</i> , <b>2009</b> , 61, 1425-33	4.4	10
1322	Noise figure limits for circular loop MR coils. <i>Magnetic Resonance in Medicine</i> , <b>2009</b> , 61, 1201-9	4.4	103
1321	Strategies for reducing respiratory motion artifacts in renal perfusion imaging with arterial spin labeling. <i>Magnetic Resonance in Medicine</i> , <b>2009</b> , 61, 1374-87	4.4	73
1320	Radiofrequency current source (RFCS) drive and decoupling technique for parallel transmit arrays using a high-power metal oxide semiconductor field-effect transistor (MOSFET). <i>Magnetic Resonance in Medicine</i> , <b>2009</b> , 62, 218-28	4.4	12
1319	96-Channel receive-only head coil for 3 Tesla: design optimization and evaluation. <i>Magnetic Resonance in Medicine</i> , <b>2009</b> , 62, 754-62	4.4	211
1318	General formulation for quantitative G-factor calculation in GRAPPA reconstructions. <i>Magnetic Resonance in Medicine</i> , <b>2009</b> , 62, 739-46	4.4	147
1317	Accelerated cardiac perfusion imaging using k-t SENSE with SENSE training. <i>Magnetic Resonance in Medicine</i> , <b>2009</b> , 62, 955-65	4.4	14
1316	Assessment of myocardial blood flow (MBF) in humans using arterial spin labeling (ASL): feasibility and noise analysis. <i>Magnetic Resonance in Medicine</i> , <b>2009</b> , 62, 975-83	4.4	52
1315	Independent slab-phase modulation combined with parallel imaging in bilateral breast MRI. <i>Magnetic Resonance in Medicine</i> , <b>2009</b> , 62, 1221-31	4.4	6
1314	Partial fourier reconstruction through data fitting and convolution in k-space. <i>Magnetic Resonance in Medicine</i> , <b>2009</b> , 62, 1261-9	4.4	17
1313	Detection of lactate with a hadamard slice selected, selective multiple quantum coherence, chemical shift imaging sequence (HDMD-SELMQC-CSI) on a clinical MRI scanner: Application to tumors and muscle ischemia. <i>Magnetic Resonance in Medicine</i> , <b>2009</b> , 62, 1404-13	4.4	27
1312	Numerical field calculations considering the human subject for engineering and safety assurance in MRI. <b>2009</b> , 22, 919-26		29
1311	High-field head radiofrequency volume coils using transverse electromagnetic (TEM) and phased array technologies. <b>2009</b> , 22, 960-74		5
1310	Hybrid numerical techniques for the modelling of radiofrequency coils in MRI. <b>2009</b> , 22, 937-51		22
1309	Improving SNR of RF coils using composite coil elements. <b>2009</b> , 22, 952-9		10
1308	Parallel imaging with 3D TPI trajectory: SNR and acceleration benefits. <b>2009</b> , 27, 656-63		14

1307	Noise estimation in single- and multiple-coil magnetic resonance data based on statistical models. <b>2009</b> , 27, 1397-409	115
1306	Travelling-wave nuclear magnetic resonance. <b>2009</b> , 457, 994-8	131
1305	In vivo diffusion tensor imaging of thoracic and cervical rat spinal cord at 7 T. <b>2009</b> , 27, 1236-41	9
1304	Phase unwrapping of MR images using Phi UN--a fast and robust region growing algorithm. <b>2009</b> , 13, 257-68	76
1303	Optimal decay rate constant estimates from phased array data utilizing joint Bayesian analysis. <b>2009</b> , 198, 49-56	24
1302	Probabilistic Identification and Estimation of Noise (PIESNO): a self-consistent approach and its applications in MRI. <b>2009</b> , 199, 94-103	48
1301	Reducing ghosting due to k-space discontinuities in fast spin echo (FSE) imaging by a new combination of k-space ordering and parallel imaging. <b>2009</b> , 200, 119-25	4
1300	Image reconstructions with the rotating RF coil. <b>2009</b> , 201, 186-98	15
1299	Spinal-cord MRI in multiple sclerosis: conventional and nonconventional MR techniques. <b>2009</b> , 19, 81-99	51
1298	Simulation approaches for magnetic resonance imaging sensors. <b>2009</b> ,	
1297	Reliability of MRI-derived cortical and subcortical morphometric measures: effects of pulse sequence, voxel geometry, and parallel imaging. <b>2009</b> , 44, 1324-33	172
1296	In vivo cerebrovasculature visualization using 3D DeltaR2-based microscopy of magnetic resonance angiography (3DDeltaR2-mMRA). <b>2009</b> , 45, 824-31	34
1295	T1 weighted brain images at 7 Tesla unbiased for Proton Density, T2* contrast and RF coil receive B1 sensitivity with simultaneous vessel visualization. <b>2009</b> , 46, 432-46	221
1294	An eight-channel phased array RF coil for spine MR imaging at 7 T. <b>2009</b> , 44, 734-40	57
1293	Cortical Enhanced Tissue Segmentation of Neonatal Brain MR Images Acquired by a Dedicated Phased Array Coil. <b>2009</b> , 2009, 39-45	1
1292	An eight-channel transmit/receive multipurpose coil for musculoskeletal MR imaging at 7 T. <b>2010</b> , 37, 6368-76	11
1291	Design and comparison of two eight-channel transmit/receive radiofrequency arrays for in vivo rodent imaging on a 7 T human whole-body MRI system. <b>2010</b> , 37, 2225-32	6
1290	A theoretical and experimental study on transverse field radio frequency surface coils. <b>2010</b> , 43, 1503-1515	4



1289	Study of brain anatomy with high-field MRI: recent progress. <b>2010</b> , 28, 1210-5	36
1288	Flexible, phase-matched, linear receive arrays for high-field MRI in monkeys. <b>2010</b> , 28, 1183-91	25
1287	A Novel Magnetic Resonance Phased-Array Coil Designed with FDTD Algorithm. <b>2010</b> , 39, 225-231	6
1286	Low-Field MR Coils: Comparison between Strip and Wire Conductors. <b>2010</b> , 39, 391-399	27
1285	3 T magnetic resonance imaging of the musculoskeletal system. <b>2010</b> , 115, 571-84	6
1284	MRI Coil Design Using Boundary-Element Method With Regularization Technique: A Numerical Calculation Study. <b>2010</b> , 46, 1052-1059	34
1283	Multiple overlapping k-space junctions for investigating translating objects (MOJITO). <b>2010</b> , 29, 339-49	7
1282	An analytic framework for the evaluation of coil configurations for parallel transmission MRI with subsampled cartesian excitation k-space. <b>2010</b> , 29, 523-30	1
1281	Noise correlations and SNR in phased-array MRS. <b>2010</b> , 23, 66-73	22
1280	Performance evaluation of a 32-element head array with respect to the ultimate intrinsic SNR. <b>2010</b> , 23, 142-51	41
1279	Improved R2* measurement accuracy with absolute SNR truncation and optimal coil combination. <b>2010</b> , 23, 1127-36	12
1278	MRI-phased array evaluation using a human body model. <b>2010</b> , 37B, 20-28	1
1277	A four-channel hole-slotted phased array at 7 Tesla. <b>2010</b> , 37B, 226-236	3
1276	Parallel transmit and receive technology in high-field magnetic resonance neuroimaging. <b>2010</b> , 20, 2-13	36
1275	Evaluation of multicoil breast arrays for parallel imaging. <b>2010</b> , 31, 328-38	15
1274	MRI of the wrist at 7 tesla using an eight-channel array coil combined with parallel imaging: preliminary results. <b>2010</b> , 31, 740-6	50
1273	Interventional MRI using multiple 3D angiography roadmaps with real-time imaging. <b>2010</b> , 31, 1015-9	14
1272	Improved homogeneity of the transmit field by simultaneous transmission with phased array and volume coil. <b>2010</b> , 32, 476-81	13

1271	Mixed-bandwidth acquisitions: signal-to-noise ratio and signal-to-noise efficiency. <b>2010</b> , 32, 997-1002		2
1270	Spiral water-fat imaging with integrated off-resonance correction on a clinical scanner. <b>2010</b> , 32, 1262-7		16
1269	Prospective comparison of image quality and diagnostic accuracy of 0.5 molar gadobenate dimeglumine and 1.0 molar gadobutrol in contrast-enhanced run-off magnetic resonance angiography of the lower extremities. <b>2010</b> , 32, 1166-71		22
1268	Reconstruction of 3D dynamic contrast-enhanced magnetic resonance imaging using nonlocal means. <b>2010</b> , 32, 1217-27		38
1267	Receive array magnetic resonance spectroscopy: Whitened singular value decomposition (WSVD) gives optimal Bayesian solution. <i>Magnetic Resonance in Medicine</i> , <b>2010</b> , 63, 881-91	4.4	55
1266	Multiple-mouse MRI with multiple arrays of receive coils. <i>Magnetic Resonance in Medicine</i> , <b>2010</b> , 63, 803-10	4.4	13
1265	Design and evaluation of a 32-channel phased-array coil for lung imaging with hyperpolarized 3-helium. <i>Magnetic Resonance in Medicine</i> , <b>2010</b> , 63, 456-64	4.4	16
1264	Optimum SNR data compression in hardware using an Eigencoil array. <i>Magnetic Resonance in Medicine</i> , <b>2010</b> , 63, 1346-56	4.4	21
1263	Phase-sensitive, dual-acquisition, single-slab, 3D, turbo-spin-echo pulse sequence for simultaneous T2-weighted and fluid-attenuated whole-brain imaging. <i>Magnetic Resonance in Medicine</i> , <b>2010</b> , 63, 1422-30	4.4	6
1262	Phase-contrast velocimetry with simultaneous fat/water separation. <i>Magnetic Resonance in Medicine</i> , <b>2010</b> , 63, 1564-74	4.4	4
1261	Reconstruction of MRI data encoded with arbitrarily shaped, curvilinear, nonbijective magnetic fields. <i>Magnetic Resonance in Medicine</i> , <b>2010</b> , 64, 1390-403	4.4	57
1260	A 32-channel lattice transmission line array for parallel transmit and receive MRI at 7 tesla. <i>Magnetic Resonance in Medicine</i> , <b>2010</b> , 63, 1478-85	4.4	61
1259	A high-throughput eight-channel probe head for murine MRI at 9.4 T. <i>Magnetic Resonance in Medicine</i> , <b>2010</b> , 64, 80-7	4.4	7
1258	SPIRiT: Iterative self-consistent parallel imaging reconstruction from arbitrary k-space. <i>Magnetic Resonance in Medicine</i> , <b>2010</b> , 64, 457-71	4.4	505
1257	Combination of compressed sensing and parallel imaging for highly accelerated first-pass cardiac perfusion MRI. <i>Magnetic Resonance in Medicine</i> , <b>2010</b> , 64, 767-76	4.4	384
1256	Compressed sensing MRI with multichannel data using multicore processors. <i>Magnetic Resonance in Medicine</i> , <b>2010</b> , 64, 1135-9	4.4	26
1255	Combination of multidimensional navigator echoes data from multielement RF coil. <i>Magnetic Resonance in Medicine</i> , <b>2010</b> , 64, 1208-14	4.4	5
1254	A rapid and robust numerical algorithm for sensitivity encoding with sparsity constraints: self-feeding sparse SENSE. <i>Magnetic Resonance in Medicine</i> , <b>2010</b> , 64, 1078-88	4.4	41

1253	Minimum envelope roughness pulse design for reduced amplifier distortion in parallel excitation. <i>Magnetic Resonance in Medicine</i> , <b>2010</b> , 64, 1432-9	4.4	14
1252	Fast human brain magnetic resonance responses associated with epileptiform spikes. <i>Magnetic Resonance in Medicine</i> , <b>2010</b> , 64, 1728-38	4.4	16
1251	Highly accelerated contrast-enhanced MR angiography: improved reconstruction accuracy and reduced noise amplification with complex subtraction. <i>Magnetic Resonance in Medicine</i> , <b>2010</b> , 64, 1843-8	4.4	14
1250	Transmit/receive radiofrequency coil with individually shielded elements. <i>Magnetic Resonance in Medicine</i> , <b>2010</b> , 64, 1640-51	4.4	23
1249	Cryogenic receive coil and low noise preamplifier for MRI at 0.01T. <b>2010</b> , 203, 57-65		11
1248	Radiation damping and reciprocity in nuclear magnetic resonance: the replacement of the filling factor. <b>2010</b> , 206, 161-7		7
1247	An electromagnetic reverse method of coil sensitivity mapping for parallel MRI - theoretical framework. <b>2010</b> , 207, 59-68		23
1246	Quantitative SENSE-MRSI of the human brain. <b>2010</b> , 28, 305-13		27
1245	About the background distribution in MR data: a local variance study. <b>2010</b> , 28, 739-52		15
1244	Accelerated cardiovascular magnetic resonance of the mouse heart using self-gated parallel imaging strategies does not compromise accuracy of structural and functional measures. <b>2010</b> , 12, 43		20
1243	Introduction to Medical Imaging: Physics, Engineering and Clinical Applications. 204-282		
1242	Radiofrequency coils for musculoskeletal magnetic resonance imaging. <b>2010</b> , 21, 315-23		14
1241	Cross-sampled GRAPPA for parallel MRI. <b>2010</b> , 2010, 3325-8		
1240	Alternating impedance multi-channel transmission line resonators for high field magnetic resonance imaging. <b>2010</b> ,		1
1239	A PIN diode controlled dual-tuned MRI RF coil and phased array for multi nuclear imaging. <b>2010</b> , 55, 2589-600		32
1238	A decoupled circular-polarized volume head coil pair for studying two interacting human brains with MRI. <b>2010</b> , 2010, 6645-8		5
1237	Development of a new RF coil and gamma-ray radiation shielding assembly for improved MR image quality in SPECT/MRI. <b>2010</b> , 55, 2495-504		10
1236	A new method for removing motion artifacts in parallel MRI reconstruction. <b>2010</b> ,		2

1235	An analysis of the accuracy of magnetic resonance flip angle measurement methods. <b>2010</b> , 55, 6157-74	46
1234	Magnetic resonance imaging of the liver: sequence optimization and artifacts. <b>2010</b> , 18, 525-47, xi	24
1233	MODEL-BASED IMAGE RECONSTRUCTION FOR MRI. <b>2010</b> , 27, 81-89	167
1232	Parallel MRI Using Phased Array Coils. <b>2010</b> , 27, 90-98	41
1231	Image reconstruction from phased-array MRI data based on multichannel blind deconvolution. <b>2010</b> ,	4
1230	Scaling errors in measures of brain activity cause erroneous estimates of effective connectivity. <b>2010</b> , 49, 621-30	2
1229	MP2RAGE, a self bias-field corrected sequence for improved segmentation and T1-mapping at high field. <b>2010</b> , 49, 1271-81	709
1228	Impact of scanner hardware and imaging protocol on image quality and compartment volume precision in the ADNI cohort. <b>2010</b> , 49, 2123-33	98
1227	K-space reconstruction of magnetic resonance inverse imaging (K-Inv) of human visuomotor systems. <b>2010</b> , 49, 3086-98	22
1226	BOLD signal responses to controlled hypercapnia in human spinal cord. <b>2010</b> , 50, 1074-84	44
1225	Decoupling of multi-channels RF coil and its application to intraoperative MR-guided focused ultrasound device. <b>2010</b> ,	
1224	Improved compressed sensing MRI with multi-channel data using reweighted $l(1)$ minimization. <b>2010</b> , 2010, 875-8	6
1223	Combined compressed sensing and parallel mri compared for uniform and random cartesian undersampling of K-space. <b>2011</b> ,	3
1222	Modeling high speed MRI coil switching using PIN diodes. <b>2011</b> ,	1
1221	Receiver Loop Arrays. <b>2011</b> ,	3
1220	Physiological noise and signal-to-noise ratio in fMRI with multi-channel array coils. <b>2011</b> , 55, 597-606	131
1219	Analysis of the resolution of split-ring metamaterial lenses with application in parallel magnetic resonance imaging. <b>2011</b> , 98, 014105	24
1218	Nested Surface Coils for Multinuclear NMR. <b>2011</b> ,	

1217	Coil Array Design for Parallel Imaging: Theory and Applications. <b>2011,</b>	2
1216	Radiofrequency Fields and SAR for Transverse Electromagnetic (TEM) Surface Coils. <b>2011,</b>	
1215	A Standard Procedure for Analyzing Radio Frequency MRI Coils. <b>2011,</b>	1
1214	Low dose CE-MRA. <b>2011, 80, 2-8</b>	12
1213	Dental magnetic resonance imaging: making the invisible visible. <b>2011, 37, 745-52</b>	116
1212	Impedance Matching and Baluns. <b>2011,</b>	1
1211	A radiofrequency coil to facilitate B <sub>1</sub> shimming and parallel imaging acceleration in three dimensions at 7 T. <b>2011, 24, 815-23</b>	31
1210	Resonant Mode Reduction in Radiofrequency Volume Coils for Ultrahigh Field Magnetic Resonance Imaging. <b>2011, 4, 1333-1344</b>	12
1209	Sodickson, Daniel K.: The Many Guises of Tomography [A Personal History of Parallel Imaging. <b>2011,</b>	
1208	A transmit/receive radiofrequency array for imaging the carotid arteries at 7 Tesla: coil design and first in vivo results. <b>2011, 46, 246-54</b>	17
1207	Probabilistic 4D blood flow tracking and uncertainty estimation. <b>2011, 15, 720-8</b>	18
1206	Simultaneous dual frequency 1H and 19F open coil imaging of arthritic rabbit knee at 3T. <b>2011, 30, 22-7</b>	27
1205	Spectrometer Hardware. <b>2011, 221-240</b>	
1204	Current CONTROLLED Transmit And Receive Coil Elements (CONTAR) for Parallel Acquisition and Parallel Excitation Techniques at High-Field MRI. <b>2011, 41, 507-523</b>	4
1203	Accurate assessment of carotid artery stenosis in atherosclerotic mice using accelerated high-resolution 3D magnetic resonance angiography. <b>2011, 24, 9-18</b>	5
1202	Analytic image concept combined to SENSE reconstruction. <b>2011, 24, 305-13</b>	
1201	Imaging of lumbar degenerative disk disease: history and current state. <b>2011, 40, 1175-89</b>	55
1200	Sequential CW-EPR image acquisition with 760-MHz surface coil array. <b>2011, 209, 244-9</b>	7

1199	Noise figure characterization of preamplifiers at NMR frequencies. <b>2011</b> , 210, 7-15		7
1198	The design of a low-noise preamplifier for MRI. <b>2011</b> , 54, 1766-1770		9
1197	Optimization of the number of selectable channels for spine phased array coils for transverse imaging. <b>2011</b> , 29, 166-70		2
1196	In vitro and in vivo comparison of wrist MR imaging at 3.0 and 7.0 tesla using a gradient echo sequence and identical eight-channel coil array designs. <b>2011</b> , 33, 661-7		17
1195	Optimized density-weighted imaging for dynamic contrast-enhanced 3D-MR mammography. <b>2011</b> , 33, 328-39		1
1194	Self-calibrated multiple-echo acquisition with radial trajectories using the conjugate gradient method (SMART-CG). <b>2011</b> , 33, 980-7		1
1193	Quality assessment of high angular resolution diffusion imaging data using bootstrap on Q-ball reconstruction. <b>2011</b> , 33, 1194-208		27
1192	Practical signal-to-noise ratio quantification for sensitivity encoding: application to coronary MR angiography. <b>2011</b> , 33, 1330-40		19
1191	Simultaneous bilateral magnetic resonance imaging of the femoral arteries in peripheral arterial disease patients. <b>2011</b> , 34, 150-6		5
1190	Comparison of a 32-channel with a 12-channel head coil: are there relevant improvements for functional imaging?. <b>2011</b> , 34, 173-83		31
1189	MR venography of the brain with enhanced vessel contrast using image-domain high-pass filtering of the susceptibility phase shift. <b>2011</b> , 34, 1218-25		0
1188	High resolution three-dimensional cardiac perfusion imaging using compartment-based k-t principal component analysis. <i>Magnetic Resonance in Medicine</i> , <b>2011</b> , 65, 575-87	4.4	61
1187	Optically detunable, inductively coupled coil for self-gating in small animal magnetic resonance imaging. <i>Magnetic Resonance in Medicine</i> , <b>2011</b> , 65, 882-8	4.4	2
1186	High resolution spectroscopic imaging of GABA at 3 Tesla. <i>Magnetic Resonance in Medicine</i> , <b>2011</b> , 65, 603-9	4.4	56
1185	Statistical noise analysis in GRAPPA using a parametrized noncentral Chi approximation model. <i>Magnetic Resonance in Medicine</i> , <b>2011</b> , 65, 1195-206	4.4	71
1184	<sup>2</sup> H transmit-receive NMR probes for magnetic field monitoring in MRI. <i>Magnetic Resonance in Medicine</i> , <b>2011</b> , 65, 1498-506	4.4	15
1183	Novel 16-channel receive coil array for accelerated upper airway MRI at 3 Tesla. <i>Magnetic Resonance in Medicine</i> , <b>2011</b> , 65, 1711-7	4.4	14
1182	Combining phase images from multi-channel RF coils using 3D phase offset maps derived from a dual-echo scan. <i>Magnetic Resonance in Medicine</i> , <b>2011</b> , 65, 1638-48	4.4	69

1181	Custom-fitted 16-channel bilateral breast coil for bidirectional parallel imaging. <i>Magnetic Resonance in Medicine</i> , <b>2011</b> , 66, 281-9	4.4	23
1180	A 20-channel receive-only mouse array coil for a 3 T clinical MRI system. <i>Magnetic Resonance in Medicine</i> , <b>2011</b> , 66, 584-95	4.4	14
1179	Fast concomitant gradient field and field inhomogeneity correction for spiral cardiac imaging. <i>Magnetic Resonance in Medicine</i> , <b>2011</b> , 66, 390-401	4.4	11
1178	The effect of reconstruction and acquisition parameters for GRAPPA-based parallel imaging on the image quality. <i>Magnetic Resonance in Medicine</i> , <b>2011</b> , 66, 402-9	4.4	20
1177	Design and evaluation of an RF front-end for 9.4 T human MRI. <i>Magnetic Resonance in Medicine</i> , <b>2011</b> , 66, 596-604	4.4	25
1176	Interleaved variable density sampling with a constrained parallel imaging reconstruction for dynamic contrast-enhanced MR angiography. <i>Magnetic Resonance in Medicine</i> , <b>2011</b> , 66, 428-36	4.4	19
1175	Calculation of radiofrequency electromagnetic fields and their effects in MRI of human subjects. <i>Magnetic Resonance in Medicine</i> , <b>2011</b> , 65, 1470-82	4.4	91
1174	B0 mapping with multi-channel RF coils at high field. <i>Magnetic Resonance in Medicine</i> , <b>2011</b> , 66, 976-88	4.4	36
1173	32-channel RF coil optimized for brain and cervical spinal cord at 3 T. <i>Magnetic Resonance in Medicine</i> , <b>2011</b> , 66, 1198-208	4.4	38
1172	Nonrigid retrospective respiratory motion correction in whole-heart coronary MRA. <i>Magnetic Resonance in Medicine</i> , <b>2011</b> , 66, 1541-9	4.4	52
1171	Size-optimized 32-channel brain arrays for 3 T pediatric imaging. <i>Magnetic Resonance in Medicine</i> , <b>2011</b> , 66, 1777-87	4.4	92
1170	A flexible 32-channel receive array combined with a homogeneous transmit coil for human lung imaging with hyperpolarized <sup>3</sup> He at 1.5 T. <i>Magnetic Resonance in Medicine</i> , <b>2011</b> , 66, 1788-97	4.4	21
1169	Rapid quantification of myocardial lipid content in humans using single breath-hold 1H MRS at 3 Tesla. <i>Magnetic Resonance in Medicine</i> , <b>2011</b> , 66, 619-24	4.4	56
1168	CENTS: cortical enhanced neonatal tissue segmentation. <b>2011</b> , 32, 382-96		34
1167	Three-dimensional quadrature array coil elements for improved parallel magnetic resonance imaging performance at 1.5 Tesla. <b>2011</b> , 38A, 61-73		1
1166	A numerical postprocessing procedure for analyzing radio frequency MRI coils. <b>2011</b> , 38A, 133-147		29
1165	INTERCOMPARISON OF PERFORMANCE OF RF COIL GEOMETRIES FOR HIGH FIELD MOUSE CARDIAC MRI. <b>2011</b> , 38A, 236-252		7
1164	A 20-channel coil for improved magnetic resonance imaging of the optic nerve. <b>2011</b> , 39B, 26-36		6

1163	Efficient multichannel coil data compression: A prospective study for distributed detection in wireless high-density arrays. <b>2011</b> , 39B, 64-77	2
1162	A radiofrequency coil configuration for imaging the human vertebral column at 7 T. <b>2011</b> , 208, 291-7	24
1161	Novel spinal cord imaging. <b>2011</b> , 15, 645-7; discussion 647	1
1160	Measuring signal-to-noise ratio in partially parallel imaging MRI. <b>2011</b> , 38, 5049-57	76
1159	ICE decoupling technique for RF coil array designs. <b>2011</b> , 38, 4086-93	75
1158	Evaluating sparsity penalty functions for combined compressed sensing and parallel MRI. <b>2011</b> ,	2
1157	Evaluation of receive-only single coil and four-element phased array for rodent brain imaging at 11.7 T. <b>2011</b> ,	
1156	The optimization of an 8-channel transceive volume array for small animal MRI at 9.4T. <b>2011</b> , 2011, 2833-6	
1155	Evaluation of image quality of a 32-channel versus a 12-channel head coil at 1.5T for MR imaging of the brain. <b>2011</b> , 32, 365-73	28
1154	Microstructural Parcellation of the Human Cerebral Cortex - From Brodmann's Post-Mortem Map to in vivo Mapping with High-Field Magnetic Resonance Imaging. <b>2011</b> , 5, 19	175
1153	Integrated multi-channel subsystem for MR signal acquisition. <b>2011</b> ,	0
1152	De Gruyter. <b>2011</b> , 11,	3
1151	Multilayer phased microcoil array for magnetic resonance imaging. <b>2011</b> ,	
1150	Hyperpolarized <sup>13</sup> C dehydroascorbate as an endogenous redox sensor for in vivo metabolic imaging. <b>2011</b> , 108, 18606-11	126
1149	Geometrical models for cardiac MRI in rodents: comparison of quantification of left ventricular volumes and function by various geometrical models with a full-volume MRI data set in rodents. <b>2012</b> , 302, H709-15	22
1148	Methods and Applications of Phosphorus NMR Spectroscopy In Vivo. <b>2012</b> , 75, 115-160	6
1147	SiPM-PET with a short optical fiber bundle for simultaneous PET-MR imaging. <b>2012</b> , 57, 3869-83	39
1146	Parallel imaging of the cervical spine at 3T: optimized trade-off between speed and image quality. <b>2012</b> , 33, 1867-74	6



1145	Neuroradiology back to the future: spine imaging. <b>2012</b> , 33, 999-1006	21
1144	Increasing the signal-to-noise ratio by using vertically stacked phased array coils for low-field magnetic resonance imaging. <b>2012</b> , 16, 1150-6	6
1143	Parallel imaging acceleration of spiral Fourier velocity encoded MRI using SPIRiT. <b>2012</b> , 2012, 416-9	1
1142	Development of NMR: Biological and Medical MR Spectroscopy. <b>2012</b> ,	
1141	A phased coil array for efficient wireless power transmission. <b>2012</b> ,	3
1140	Improvements in lumbar spine MRI at 3 T using parallel transmission. <b>2012</b> , 199, 861-7	4
1139	Radiofrequency Coils. <b>2012</b> , 41-56	
1138	A historical overview of magnetic resonance imaging, focusing on technological innovations. <b>2012</b> , 47, 725-41	43
1137	[Examination of sensitivity distribution characteristics depending on the position of the array coil]. <b>2012</b> , 68, 40-9	
1136	[Position dependent influence that sensitivity correction processing gives the signal-to-noise ratio measurement in parallel imaging]. <b>2012</b> , 68, 65-74	
1135	Elimination of mutual inductance in NMR phased arrays: the paddle design revisited. <b>2012</b> , 222, 59-67	8
1134	Improving RF field strength and uniformity in a local region by controlling individual transmitting RF phase in a 7T transceive array coil. <b>2012</b> , 2, 223-232	3
1133	Recent advances in MRI technology: Implications for image quality and patient safety. <b>2012</b> , 26, 393-9	22
1132	Lab on a chip phased-array MR multi-platform analysis system. <b>2012</b> , 12, 495-502	43
1131	Design of a Two-Channel NMR Coil Using an Impedance Transformation Approach. <b>2012</b> , 12, 1801-1808	10
1130	Implementation of an absolute brain <sup>1</sup> H-MRS quantification method to assess different tissue alterations in multiple sclerosis. <b>2012</b> , 59, 2687-94	24
1129	Resolution evaluation of MR images reconstructed by iterative thresholding algorithms for compressed sensing. <b>2012</b> , 39, 4328-38	16
1128	Imaging in electrically conductive porous media without frequency encoding. <b>2012</b> , 220, 62-9	0

1127	Comparison of 3T and 7T MRI clinical sequences for ankle imaging. <b>2012</b> , 81, 1846-50	27
1126	Prospective and retrospective motion correction in diffusion magnetic resonance imaging of the human brain. <b>2012</b> , 59, 389-98	51
1125	The future of acquisition speed, coverage, sensitivity, and resolution. <b>2012</b> , 62, 1221-9	34
1124	A multi-center study: intra-scan and inter-scan variability of diffusion spectrum imaging. <b>2012</b> , 62, 87-94	19
1123	An implanted 8-channel array coil for high-resolution macaque MRI at 3T. <b>2012</b> , 62, 1529-36	38
1122	Investigation of the spatial correlation in human white matter and the influence of age using 3-dimensional variography applied to MP-RAGE data. <b>2012</b> , 63, 1374-83	5
1121	Minimum SNR and acquisition for bias-free estimation of fractional anisotropy in diffusion tensor imaging - a comparison of two analytical techniques and field strengths. <b>2012</b> , 30, 1123-33	17
1120	Signal-to-noise ratio, contrast-to-noise ratio and pharmacokinetic modeling considerations in dynamic contrast-enhanced magnetic resonance imaging. <b>2012</b> , 30, 1313-22	37
1119	Integrated variable projection approach (IVAPA) for parallel magnetic resonance imaging. <b>2012</b> , 36, 552-9	
1118	Transceiver Loop Arrays. <b>2012</b> ,	
1117	Characterization of Multichannel Coil Arrays on the Benchtop. <b>2012</b> ,	2
1116	Biplanar MRI for the assessment of the spinal cord in multiple sclerosis. <b>2012</b> , 18, 1560-9	59
1115	An analysis approach for high-field fMRI data from awake non-human primates. <b>2012</b> , 7, e29697	7
1114	Multi-reception strategy with improved SNR for multichannel MR imaging. <b>2012</b> , 7, e42237	5
1113	Improvement of a 4-Channel Spiral-Loop RF Coil Array for TMJ MR Imaging at 7T. <b>2012</b> , 16, 103	3
1112	High resolution three-dimensional cine phase contrast MRI of small intracranial aneurysms using a stack of stars k-space trajectory. <b>2012</b> , 35, 518-27	40
1111	Parallel MR imaging. <b>2012</b> , 36, 55-72	263
1110	Effects of MRI scan acceleration on brain volume measurement consistency. <b>2012</b> , 36, 1234-40	17

1109	Parallel traveling-wave MRI: a feasibility study. <i>Magnetic Resonance in Medicine</i> , <b>2012</b> , 67, 965-78	4.4	22
1108	Improving GRAPPA using cross-sampled autocalibration data. <i>Magnetic Resonance in Medicine</i> , <b>2012</b> , 67, 1042-53	4.4	16
1107	Quantitative assessment of the effects of high-permittivity pads in 7 Tesla MRI of the brain. <i>Magnetic Resonance in Medicine</i> , <b>2012</b> , 67, 1285-93	4.4	135
1106	Stretchable coil arrays: application to knee imaging under varying flexion angles. <i>Magnetic Resonance in Medicine</i> , <b>2012</b> , 67, 872-9	4.4	43
1105	A parallel imaging approach to wide-field MR microscopy. <i>Magnetic Resonance in Medicine</i> , <b>2012</b> , 68, 850-6	4.4	5
1104	Decoupled circular-polarized dual-head volume coil pair for studying two interacting human brains with dyadic fMRI. <i>Magnetic Resonance in Medicine</i> , <b>2012</b> , 68, 1087-96	4.4	23
1103	Patient-individual local SAR determination: in vivo measurements and numerical validation. <i>Magnetic Resonance in Medicine</i> , <b>2012</b> , 68, 1117-26	4.4	78
1102	Null space imaging: nonlinear magnetic encoding fields designed complementary to receiver coil sensitivities for improved acceleration in parallel imaging. <i>Magnetic Resonance in Medicine</i> , <b>2012</b> , 68, 1166-75	4.4	25
1101	Reconstruction of MRI data encoded by multiple nonbijective curvilinear magnetic fields. <i>Magnetic Resonance in Medicine</i> , <b>2012</b> , 68, 1145-56	4.4	29
1100	Denosing sparse images from GRAPPA using the nullspace method. <i>Magnetic Resonance in Medicine</i> , <b>2012</b> , 68, 1176-89	4.4	17
1099	Flexible transceiver array for ultrahigh field human MR imaging. <i>Magnetic Resonance in Medicine</i> , <b>2012</b> , 68, 1332-8	4.4	37
1098	Spatially resolved extended phase graphs: modeling and design of multipulse sequences with parallel transmission. <i>Magnetic Resonance in Medicine</i> , <b>2012</b> , 68, 1481-94	4.4	20
1097	DREAM--a novel approach for robust, ultrafast, multislice B <sub>1</sub> mapping. <i>Magnetic Resonance in Medicine</i> , <b>2012</b> , 68, 1517-26	4.4	182
1096	Metabolic MR imaging of regional triglyceride and creatine content in the human heart. <i>Magnetic Resonance in Medicine</i> , <b>2012</b> , 68, 1696-704	4.4	14
1095	Sodium imaging of human brain at 7 T with 15-channel array coil. <i>Magnetic Resonance in Medicine</i> , <b>2012</b> , 68, 1807-14	4.4	33
1094	Retrospective image correction in the presence of nonlinear temporal magnetic field changes using multichannel navigator echoes. <i>Magnetic Resonance in Medicine</i> , <b>2012</b> , 68, 1836-45	4.4	32
1093	Correlation imaging for multiscan MRI with parallel data acquisition. <i>Magnetic Resonance in Medicine</i> , <b>2012</b> , 68, 2005-17	4.4	17
1092	Classical and lateral skin effect contributions estimation in strip MR coils. <b>2012</b> , 41B, 57-61		12

1091	Filter design for phased-array mr image reconstruction using super algorithm. <b>2012</b> , 41B, 85-93			1
1090	A 28-channel coil array for improved imaging of the optic nerve. <b>2012</b> , 41B, 73-84			
1089	Hyperpolarized 13C MRS Cardiac Metabolism Studies in Pigs: Comparison Between Surface and Volume Radiofrequency Coils. <b>2012</b> , 42, 413-428			16
1088	Coil Sensitivity Estimation with Perturbing Sphere Method: Application to 13C Birdcages. <b>2012</b> , 42, 511-518			9
1087	Optimal real-time estimation in diffusion tensor imaging. <b>2012</b> , 30, 506-17			2
1086	Multichannel transceiver dual-tuned RF coil for proton/sodium MR imaging of knee cartilage at 3 T. <b>2012</b> , 30, 562-71			24
1085	Autobiographical memory in depression: an fMRI study. <b>2012</b> , 201, 98-106			33
1084	Electromechanical design and construction of a rotating radio-frequency coil system for applications in magnetic resonance. <b>2012</b> , 59, 1068-75			6
1083	Multi-channel microstrip transceiver arrays using harmonics for high field MR imaging in humans. <b>2012</b> , 31, 183-91			33
1082	Practical exercises for learning to construct NMR/MRI probe circuits. <b>2012</b> , 40A, 1-13			13
1081	An orthogonal-based decoupling method for MRI phased array coil design. <b>2012</b> , 25, 835-42			3
1080	Rat brain MRI at 16.4T using a capacitively tunable patch antenna in combination with a receive array. <b>2012</b> , 25, 1170-6			11
1079	Generalized double-acquisition imaging for radiofrequency inhomogeneity mitigation in high-field MRI: experimental proof and performance analysis. <i>Magnetic Resonance in Medicine</i> , <b>2012</b> , 67, 175-82	4-4		6
1078	Influence of noise correlation in multiple-coil statistical models with sum of squares reconstruction. <i>Magnetic Resonance in Medicine</i> , <b>2012</b> , 67, 580-5	4-4		32
1077	Automatic coil selection for streak artifact reduction in radial MRI. <i>Magnetic Resonance in Medicine</i> , <b>2012</b> , 67, 470-6	4-4		21
1076	Reverse polarized inductive coupling to transmit and receive radiofrequency coil arrays. <i>Magnetic Resonance in Medicine</i> , <b>2012</b> , 67, 446-56	4-4		5
1075	Comparison of a 28-channel receive array coil and quadrature volume coil for morphologic imaging and T2 mapping of knee cartilage at 7T. <b>2012</b> , 35, 441-8			31
1074	In vivo estimation of bone stiffness at the distal femur and proximal tibia using ultra-high-field 7-Tesla magnetic resonance imaging and micro-finite element analysis. <b>2012</b> , 30, 243-51			19

1073	Phase informed model for motion and susceptibility. <b>2013</b> , 34, 3086-100		14
1072	Dynamically applied B1+ shimming solutions for non-contrast enhanced renal angiography at 7.0 Tesla. <i>Magnetic Resonance in Medicine</i> , <b>2013</b> , 69, 114-26	4.4	50
1071	An 11-channel radio frequency phased array coil for magnetic resonance guided high-intensity focused ultrasound of the breast. <i>Magnetic Resonance in Medicine</i> , <b>2013</b> , 69, 295-302	4.4	22
1070	Coil compression for accelerated imaging with Cartesian sampling. <i>Magnetic Resonance in Medicine</i> , <b>2013</b> , 69, 571-82	4.4	128
1069	Noncontrast-enhanced three-dimensional (3D) intracranial MR angiography using pseudocontinuous arterial spin labeling and accelerated 3D radial acquisition. <i>Magnetic Resonance in Medicine</i> , <b>2013</b> , 69, 708-15	4.4	50
1068	Improved parallel MR imaging using a coefficient penalized regularization for GRAPPA reconstruction. <i>Magnetic Resonance in Medicine</i> , <b>2013</b> , 69, 1109-14	4.4	10
1067	Increased vessel depiction of the carotid bifurcation with a specialized 16-channel phased array coil at 3T. <i>Magnetic Resonance in Medicine</i> , <b>2013</b> , 69, 1486-93	4.4	10
1066	Estimating T1 from multichannel variable flip angle SPGR sequences. <i>Magnetic Resonance in Medicine</i> , <b>2013</b> , 69, 1787-94	4.4	22
1065	Hybrid ultra-low-field MRI and magnetoencephalography system based on a commercial whole-head neuromagnetometer. <i>Magnetic Resonance in Medicine</i> , <b>2013</b> , 69, 1795-804	4.4	90
1064	Axial 3D gradient-echo imaging for improved multiple sclerosis lesion detection in the cervical spinal cord at 3T. <b>2013</b> , 55, 431-9		25
1063	MRI and MR Arthrography. <b>2013</b> , 37-52		
1062	Stacked planar micro coils for single-sided NMR applications. <b>2013</b> , 230, 176-85		29
1061	Ultra-high field MRI for primate imaging using the travelling-wave concept. <b>2013</b> , 26, 389-400		5
1060	Effects of image reconstruction on fiber orientation mapping from multichannel diffusion MRI: reducing the noise floor using SENSE. <i>Magnetic Resonance in Medicine</i> , <b>2013</b> , 70, 1682-9	4.4	132
1059	Radiofrequency (RF) coil impacts the value and reproducibility of cartilage spin-spin (T2) relaxation time measurements. <b>2013</b> , 21, 710-20		27
1058	Distinct disease phenotypes linked to different combinations of GAA mutations in a large late-onset GSDII sibship. <b>2013</b> , 8, 159		12
1057	A MRI rotary phased array head coil. <b>2013</b> , 7, 548-56		3
1056	Capacitive approach to restore decoupling between channels for four-element MR coil array. <b>2013</b> , 49, 815-816		

1055	Stacked phased array coils for increasing the signal-to-noise ratio in magnetic resonance imaging. <b>2013</b> , 7, 24-30	9
1054	Parasitic capacitance in MRI coil arrays: Models and application to array decoupling. <b>2013</b> ,	1
1053	Retrospective 3D Modeling of RF Coils Using a 3D Tracker for EM Simulation. <b>2013</b> , 43, 126-132	3
1052	A dual-tuned transceive resonator for $(13) C\{(1) H\}$ MRS: two open coils in one. <b>2013</b> , 26, 533-41	6
1051	Stray Capacitance Between Magnetic Resonance Imaging Coil Elements: Models and Application to Array Decoupling. <b>2013</b> , 61, 4667-4677	10
1050	Design of a Four-Channel Surface Receiver Coil Array Without Preamplifiers for the Decoupling Between Elements: Validation for High-Resolution Rat Knee MR Imaging. <b>2013</b> , 13, 2450-2458	1
1049	Sparsity-promoting calibration for GRAPPA accelerated parallel MRI reconstruction. <b>2013</b> , 32, 1325-35	51
1048	Improved signal-to-noise ratio performance in magnetic resonance imaging by using a multilayered surface coil array—a simulation study. <b>2013</b> , 17, 756-62	6
1047	Accelerated regularized estimation of MR coil sensitivities using augmented Lagrangian methods. <b>2013</b> , 32, 556-64	21
1046	Improvement of power gain for efficient wireless power transmission by using 2Tx $\times$ 2Rx coil array. <b>2013</b> ,	1
1045	A 64-channel 3T array coil for accelerated brain MRI. <i>Magnetic Resonance in Medicine</i> , <b>2013</b> , 70, 248-58	4.4 148
1044	Toward in vivo histology: a comparison of quantitative susceptibility mapping (QSM) with magnitude-, phase-, and $R2^*$ -imaging at ultra-high magnetic field strength. <b>2013</b> , 65, 299-314	306
1043	Radiofrequency microcoils for magnetic resonance imaging and spectroscopy. <b>2013</b> , 229, 55-66	47
1042	Phase errors in FSE signals due to low frequency electromagnetic interference. <b>2013</b> , 31, 1384-9	2
1041	Parallel EPI artifact correction (PEAC) for $N/2$ ghost suppression in neuroimaging applications. <b>2013</b> , 31, 1022-8	6
1040	RF surface receive array coils: the art of an LC circuit. <b>2013</b> , 38, 12-25	26
1039	Temperature dependence of relaxation times and temperature mapping in ultra-low-field MRI. <b>2013</b> , 235, 50-7	18
1038	Evaluation of slice accelerations using multiband echo planar imaging at 3 T. <b>2013</b> , 83, 991-1001	306

1037	Massively parallel MRI detector arrays. <b>2013</b> , 229, 75-89		118
1036	Four-channel surface coil array for sequential CW-EPR image acquisition. <b>2013</b> , 234, 21-9		8
1035	Error bounds in diffusion tensor estimation using multiple-coil acquisition systems. <b>2013</b> , 31, 1372-83		5
1034	Quantitative susceptibility mapping differentiates between blood depositions and calcifications in patients with glioblastoma. <b>2013</b> , 8, e57924		106
1033	3D multi-parametric breast MRI segmentation using hierarchical support vector machine with coil sensitivity correction. <b>2013</b> , 20, 137-47		24
1032	Effective noise estimation and filtering from correlated multiple-coil MR data. <b>2013</b> , 31, 272-85		29
1031	An fMRI investigation of posttraumatic flashbacks. <b>2013</b> , 81, 151-9		76
1030	Pushing spatial and temporal resolution for functional and diffusion MRI in the Human Connectome Project. <b>2013</b> , 80, 80-104		534
1029	To improve wireless power transmission efficiency by using coil arrays. <b>2013</b> ,		2
1028	Design of a nested eight-channel sodium and four-channel proton coil for 7T knee imaging. <i>Magnetic Resonance in Medicine</i> , <b>2013</b> , 70, 259-68	4.4	43
1027	SNR-optimized phase-sensitive dual-acquisition turbo spin echo imaging: a fast alternative to FLAIR. <i>Magnetic Resonance in Medicine</i> , <b>2013</b> , 70, 106-16	4.4	1
1026	Multichannel receiver coils for improved coverage in cardiac metabolic imaging using prepolarized <sup>13</sup> C substrates. <i>Magnetic Resonance in Medicine</i> , <b>2013</b> , 70, 295-300	4.4	12
1025	On-coil multiple channel transmit system based on class-D amplification and pre-amplification with current amplitude feedback. <i>Magnetic Resonance in Medicine</i> , <b>2013</b> , 70, 276-89	4.4	17
1024	A throughput-optimized array system for multiple-mouse MRI. <b>2013</b> , 26, 237-47		2
1023	Application of 3D Sampling Trajectory in EVDRS Algorithm. <b>2013</b> ,		
1022	MRI: recent advances and new horizons. <b>2013</b> , 34-49		
1021	3T diffusion-weighted MRI of the thyroid gland with reduced distortion: preliminary results. <b>2013</b> , 86, 20130022		14
1020	Improvement of SNR and acquisition acceleration using a 32-channel head coil compared to a 12-channel head coil at 3T. <b>2013</b> , 54, 702-8		13

1019	Clinical image quality assessment of accelerated magnetic resonance neuroimaging using compressed sensing. <b>2013</b> , 48, 638-45	61
1018	Wireless amplified nuclear MR detector (WAND) for high-spatial-resolution MR imaging of internal organs: preclinical demonstration in a rodent model. <b>2013</b> , 268, 228-36	28
1017	Accelerating free breathing myocardial perfusion MRI using multi coil radial k-t SLR. <b>2013</b> , 58, 7309-27	21
1016	Designing shielded radio-frequency phased-array coils for magnetic resonance imaging. <b>2013</b> , 22, 010203	3
1015	CMOS 8-channel frequency division multiplexer for 9.4 T magnetic resonance imaging. <b>2013</b> ,	1
1014	Combination of multichannel single-voxel MRS signals using generalized least squares. <b>2013</b> , 37, 1445-50	21
1013	Exploring functional connectivity networks with multichannel brain array coils. <b>2013</b> , 3, 302-15	12
1012	Ultra high spatial and temporal resolution breast imaging at 7T. <b>2013</b> , 26, 367-75	33
1011	Combined parallel and partial fourier MR reconstruction for accelerated 8-channel hyperpolarized carbon-13 in vivo magnetic resonance Spectroscopic imaging (MRSI). <b>2013</b> , 38, 701-13	31
1010	Volumetric late gadolinium-enhanced myocardial imaging with retrospective inversion time selection. <b>2013</b> , 38, 1276-82	11
1009	Saw-tooth shaped legs birdcage RF coil for small animal NMR imaging at 1.5T MRI system. <b>2013</b> ,	
1008	Image reconstruction method based on phased array coil sensitivity estimation in parallel MRI. <b>2013</b> ,	
1007	Design of a low cross-talk micro-coil array for micro-scale MRI. <b>2013</b> , 23, 353-359	1
1006	Reduction of noise correlation in magnetic resonance imaging coil arrays with metamaterials. <b>2013</b> ,	
1005	Bilateral kidney sodium-MRI: Enabling accurate quantification of renal sodium concentration through a two-element phased array system. <b>2013</b> , 38, 564-72	11
1004	Analysis of circumferential shielding as a method to decouple radiofrequency coils for high-field MRI. <b>2013</b> , 43B, 11-21	4
1003	Density weighted turbo spin echo imaging. <b>2013</b> , 37, 965-73	3
1002	Radiofrequency field enhancement with high dielectric constant (HDC) pads in a receive array coil at 3.0T. <b>2013</b> , 38, 435-40	34



1001	Coil combination of multichannel MRSI data at 7 T: MUSICAL. <b>2013</b> , 26, 1796-805		32
1000	Body MRI artifacts in clinical practice: a physicist's and radiologist's perspective. <b>2013</b> , 38, 269-87		37
999	Resonant inductive decoupling (RID) for transceiver arrays to compensate for both reactive and resistive components of the mutual impedance. <b>2013</b> , 26, 1547-54		42
998	An embedded four-channel receive-only RF coil array for fMRI experiments of the somatosensory pathway in conscious awake marmosets. <b>2013</b> , 26, 1395-402		29
997	A 22-channel receive array with Helmholtz transmit coil for anesthetized macaque MRI at 3 T. <b>2013</b> , 26, 1431-40		16
996	Marriage of CT and MRI for vulnerable plaque characterization. <b>2013</b> , 5, 95-97		1
995	Quiescent-inflow single-shot magnetic resonance angiography using a highly undersampled radial k-space trajectory. <i>Magnetic Resonance in Medicine</i> , <b>2013</b> , 70, 1662-8	4.4	17
994	Multi-turn transmit coil to increase b1 efficiency in current source amplification. <i>Magnetic Resonance in Medicine</i> , <b>2013</b> , 69, 1180-5	4.4	6
993	32-channel phased-array receive with asymmetric birdcage transmit coil for hyperpolarized xenon-129 lung imaging. <i>Magnetic Resonance in Medicine</i> , <b>2013</b> , 70, 576-83	4.4	22
992	Noise amplification in parallel whole-head ultra-low-field magnetic resonance imaging using 306 detectors. <i>Magnetic Resonance in Medicine</i> , <b>2013</b> , 70, 595-600	4.4	7
991	Highly accelerated T1-weighted abdominal imaging using 2-dimensional controlled aliasing in parallel imaging results in higher acceleration: a comparison with generalized autocalibrating partially parallel acquisitions parallel imaging. <b>2013</b> , 48, 554-61		38
990	A comparison of radial keyhole strategies for high spatial and temporal resolution 4D contrast-enhanced MRI in small animal tumor models. <b>2013</b> , 40, 022304		18
989	Suppressing multi-channel ultra-low-field MRI measurement noise using data consistency and image sparsity. <b>2013</b> , 8, e61652		6
988	In vivo quantitative susceptibility mapping (QSM) in Alzheimer's disease. <b>2013</b> , 8, e81093		165
987	High-Resolution MR Imaging of the Human Brainstem In vivo at 7 Tesla. <b>2013</b> , 7, 710		68
986	Sparse constrained reconstruction for accelerating parallel imaging based on variable splitting method. <b>2013</b> , 2013, 605632		
985	Accelerated fast spin-echo magnetic resonance imaging of the heart using a self-calibrated split-echo approach. <b>2014</b> , 9, e94654		3
984	Automatic high-bandwidth calibration and reconstruction of arbitrarily sampled parallel MRI. <b>2014</b> , 9, e98937		2

983	A Tool Box to Evaluate the Phased Array Coil Performance Using Retrospective 3D Coil Modeling. <b>2014</b> , 18, 107		1
982	Array Coils. <b>2014</b> , 59-67		4
981	Application of a protocol for magnetic resonance spectroscopy of adrenal glands: an experiment with over 100 cases. <b>2014</b> , 47, 333-41		13
980	Magnetic Resonance Imaging. <b>2014</b> , 73-262		1
979	Feasibility study of a new RF coil design for prostate MRI. <b>2014</b> , 59, N163-9		0
978	High-spatial and high-temporal resolution dynamic contrast-enhanced perfusion imaging of the liver with time-resolved three-dimensional radial MRI. <i>Magnetic Resonance in Medicine</i> , <b>2014</b> , 71, 934-41	4.4	26
977	The accuracy and precision of two non-invasive, magnetic resonance-guided focused ultrasound-based thermal diffusivity estimation methods. <b>2014</b> , 30, 362-71		13
976	Diffusion Acquisition. <b>2014</b> , 35-61		0
975	Tilted microstrip phased arrays with improved electromagnetic decoupling for ultrahigh-field magnetic resonance imaging. <b>2014</b> , 93, e311		5
974	Geometric decoupling of a mouse array coil using a dual plane pair design with crisscrossed return paths and custom mounting fixture. <b>2014</b> , 2014, 1394-7		
973	Phase reconstruction from multiple coil data using a virtual reference coil. <i>Magnetic Resonance in Medicine</i> , <b>2014</b> , 72, 563-9	4.4	38
972	Comparison of high-density composite and surface coil arrays for MRI of spherical imaging volumes. <b>2014</b> ,		2
971	Bloch-based MRI system simulator considering realistic electromagnetic fields for calculation of signal, noise, and specific absorption rate. <i>Magnetic Resonance in Medicine</i> , <b>2014</b> , 72, 237-47	4.4	28
970	In vivo <sup>1</sup> H MRS of human gallbladder bile at 3 T in one and two dimensions: detection and quantification of major biliary lipids. <b>2014</b> , 27, 1192-202		4
969	Clinical performance of contrast enhanced abdominal pediatric MRI with fast combined parallel imaging compressed sensing reconstruction. <b>2014</b> , 40, 13-25		61
968	Nineteen-channel receive array and four-channel transmit array coil for cervical spinal cord imaging at 7T. <i>Magnetic Resonance in Medicine</i> , <b>2014</b> , 72, 291-300	4.4	42
967	An improved trap design for decoupling multinuclear RF coils. <i>Magnetic Resonance in Medicine</i> , <b>2014</b> , 72, 584-90	4.4	39
966	Transmit and receive RF fields determination from a single low-tip-angle gradient-echo scan by scaling of SVD data. <i>Magnetic Resonance in Medicine</i> , <b>2014</b> , 72, 248-59	4.4	7

965	A 3 T sodium and proton composite array breast coil. <i>Magnetic Resonance in Medicine</i> , <b>2014</b> , 71, 2231-42	4.4	32
964	Magnetic resonance image enhancement by reducing receptors' effective size and enabling multiple channel acquisition. <b>2014</b> , 2014, 2420-3		
963	Pseudocontinuous arterial spin labeling with prospective motion correction (PCASL-PROMO). <i>Magnetic Resonance in Medicine</i> , <b>2014</b> , 72, 1049-56	4.4	16
962	MRI of the hip at 7T: feasibility of bone microarchitecture, high-resolution cartilage, and clinical imaging. <b>2014</b> , 39, 1384-93		31
961	Feasibility of three-dimensional MRI of proximal femur microarchitecture at 3 tesla using 26 receive elements without and with parallel imaging. <b>2014</b> , 40, 229-38		24
960	Design of k-space channel combination kernels and integration with parallel imaging. <i>Magnetic Resonance in Medicine</i> , <b>2014</b> , 71, 2139-54	4.4	8
959	In memoriam: William A. Edelstein, 1944-2014. <i>Magnetic Resonance in Medicine</i> , <b>2014</b> , 72, 301-3	4.4	
958	Robust abdominal imaging with incomplete breath-holds. <i>Magnetic Resonance in Medicine</i> , <b>2014</b> , 71, 1733-42	4.4	13
957	Toward real-time temperature monitoring in fat and aqueous tissue during magnetic resonance-guided high-intensity focused ultrasound using a three-dimensional proton resonance frequency T1 method. <i>Magnetic Resonance in Medicine</i> , <b>2014</b> , 72, 178-87	4.4	17
956	Referenceless acquisition of phase-sensitive inversion-recovery with decisive reconstruction (RAPID) imaging. <i>Magnetic Resonance in Medicine</i> , <b>2014</b> , 72, 806-15	4.4	3
955	An analysis of the uncertainty and bias in DCE-MRI measurements using the spoiled gradient-recalled echo pulse sequence. <b>2014</b> , 41, 032301		13
954	MR guidance in radiotherapy. <b>2014</b> , 59, R349-69		146
953	Design and application of combined 8-channel transmit and 10-channel receive arrays and radiofrequency shimming for 7-T shoulder magnetic resonance imaging. <b>2014</b> , 49, 35-47		16
952	MRI of the Breast. <b>2014</b> , 205-220		1
951	Model for b1 imaging in MRI using the rotating RF field. <b>2014</b> , 2014, 461647		6
950	Initial clinical experience with a quadrupole butterfly coil for spinal injection interventions in an open MRI system at 1.0 tesla. <b>2014</b> , 59, 39-45		1
949	Effective arrangement of separated transmit-only/receive-only RF coil for improvement of B1 homogeneity at 7 Tesla. <b>2014</b> , 65, 616-624		2
948	Super-resolved parallel MRI by spatiotemporal encoding. <b>2014</b> , 32, 60-70		22

947	Highly accelerated acquisition and homogeneous image reconstruction with rotating RF coil array at 7T-A phantom based study. <b>2014</b> , 240, 102-12	6
946	Two-dimensional accelerated MP-RAGE imaging with flexible linear reordering. <b>2014</b> , 27, 455-62	24
945	Comprehensive and quantitative study of rank-4 order diffusion tensor imaging and positive definite rank-4 order diffusion tensor imaging: A higher order tensor imaging study. <b>2014</b> , 24, 83-93	
944	Effects of receive-only inserts on specific absorption rate, B1 (+) field, and Tx coil performance. <b>2014</b> , 39, 475-84	19
943	Multi-flux-transformer MRI detection with an atomic magnetometer. <b>2014</b> , 249, 49-52	10
942	Stationary wavelet transform for under-sampled MRI reconstruction. <b>2014</b> , 32, 1353-64	20
941	Cavity- and waveguide-resonators in electron paramagnetic resonance, nuclear magnetic resonance, and magnetic resonance imaging. <b>2014</b> , 83, 1-20	13
940	7T transmit/receive arrays using ICE decoupling for human head MR imaging. <b>2014</b> , 33, 1781-7	36
939	Data distributions in magnetic resonance images: a review. <b>2014</b> , 30, 725-41	44
938	Differentiation of calcified regions and iron deposits in the ageing brain on conventional structural MR images. <b>2014</b> , 40, 324-33	16
937	An eight-channel T/R head coil for parallel transmit MRI at 3T using ultra-low output impedance amplifiers. <b>2014</b> , 246, 62-8	4
936	H.M.'s contributions to neuroscience: a review and autopsy studies. <b>2014</b> , 24, 1267-86	67
935	Augmented Lagrangian with variable splitting for faster non-Cartesian L1-SPIRiT MR image reconstruction. <b>2014</b> , 33, 351-61	34
934	3D GABA imaging with real-time motion correction, shim update and reacquisition of adiabatic spiral MRSI. <b>2014</b> , 103, 290-302	89
933	A survey on the magnetic resonance image denoising methods. <b>2014</b> , 9, 56-69	145
932	Denoising Multi-Channel Images in Parallel MRI by Low Rank Matrix Decomposition. <b>2014</b> , 24, 1-5	6
931	An iterative method for coil sensitivity estimation in multi-coil MRI systems. <b>2014</b> , 32, 1365-76	3
930	Real-time imaging with radial GRAPPA: Implementation on a heterogeneous architecture for low-latency reconstructions. <b>2014</b> , 32, 747-58	22

929	Correlation imaging with arbitrary sampling trajectories. <b>2014</b> , 32, 551-62		4
928	Parallel image-acquisition in continuous-wave electron paramagnetic resonance imaging with a surface coil array: Proof-of-concept experiments. <b>2014</b> , 239, 29-33		5
927	Adaptive smoothing of multi-shell diffusion weighted magnetic resonance data by msPOAS. <b>2014</b> , 95, 90-105		27
926	Monte Carlo SURE-based parameter selection for parallel magnetic resonance imaging reconstruction. <i>Magnetic Resonance in Medicine</i> , <b>2014</b> , 71, 1760-70	4-4	18
925	Four-channel surface coil array for 300-MHz pulsed EPR imaging: proof-of-concept experiments. <i>Magnetic Resonance in Medicine</i> , <b>2014</b> , 71, 853-8	4-4	7
924	Digital beam forming in MRI. <b>2014</b> ,		
923	Is the fastest MRI a hologram?. <b>2014</b> , 24, 537-542		1
922	Water/fat-resolved whole-heart Dixon coronary MRA: an initial comparison. <i>Magnetic Resonance in Medicine</i> , <b>2014</b> , 71, 156-63	4-4	31
921	A 16-channel dual-row transmit array in combination with a 31-element receive array for human brain imaging at 9.4 T. <i>Magnetic Resonance in Medicine</i> , <b>2014</b> , 71, 870-9	4-4	122
920	Approaching Ultimate Intrinsic SNR in a Uniform Spherical Sample with Finite Arrays of Loop Coils. <b>2014</b> , 44, 53-65		29
919	An improved RF and gradient coil system for high resolution in vivo guinea pig cochlea imaging on a 3T clinical magnet. <b>2014</b> , 44, 89-101		
918	Investigation of the B1 field distribution and RF power deposition in a birdcage coil as functions of the number of coil legs at 4.7 T, 7.0 T, and 11.7 T. <b>2015</b> , 66, 1822-1826		7
917	Travelling-wave excitation for 16.4T small-bore MRI. <b>2015</b> ,		3
916	Lipid suppression via double inversion recovery with symmetric frequency sweep for robust 2D-GRAPPA-accelerated MRSI of the brain at 7 T. <b>2015</b> , 28, 1413-25		36
915	Optimized (31)P MRS in the human brain at 7 T with a dedicated RF coil setup. <b>2015</b> , 28, 1570-8		17
914	A quantitative survey of GRAPPA reconstruction in parallel MRI: impact on noise reduction and aliasing. <b>2015</b> , 44A, 287-305		2
913	Inflection Points in Magnetic Resonance Imaging Technology-35 Years of Collaborative Research and Development. <b>2015</b> , 50, 645-56		1
912	Magnetic Resonance Spectroscopy Instrumentation. <b>2015</b> , 475-488		

911	Improved adaptive reconstruction of multichannel MR images. <b>2015</b> , 42, 637-644		5
910	Birdcage type NMR receiver coil sensor with integrated detuning circuit for 3T MRI system. <b>2015</b> ,		0
909	Numerical design of dual resonant phased array RF coil for MRI 3T and 7T system. <b>2015</b> ,		0
908	Theoretical analysis of magnetic wall decoupling method for radiative antenna arrays in ultrahigh magnetic field MRI. <b>2015</b> , 45, 183-190		2
907	Minimizing lipid signal bleed in brain (1) H chemical shift imaging by post-acquisition grid shifting. <i>Magnetic Resonance in Medicine</i> , <b>2015</b> , 74, 320-9	4-4	4
906	Experimental verification of SNR and parallel imaging improvements using composite arrays. <b>2015</b> , 28, 141-53		14
905	Thermal magnetic resonance: physics considerations and electromagnetic field simulations up to 23.5 Tesla (1GHz). <b>2015</b> , 10, 201		31
904	Implementation of an in-field CMOS frequency division multiplexer for 9.4 T magnetic resonance applications. <b>2015</b> , 43, 1861-1878		10
903	Image reconstruction: an overview for clinicians. <b>2015</b> , 41, 573-85		25
902	Combining parallel detection of proton echo planar spectroscopic imaging (PEPSI) measurements with a data-consistency constraint improves SNR. <b>2015</b> , 28, 1678-87		
901	A 31-channel MR brain array coil compatible with positron emission tomography. <i>Magnetic Resonance in Medicine</i> , <b>2015</b> , 73, 2363-75	4-4	32
900	Improved SENSE imaging using accurate coil sensitivity maps generated by a global magnitude-phase fitting method. <i>Magnetic Resonance in Medicine</i> , <b>2015</b> , 74, 217-224	4-4	13
899	Algebraic method to synthesize specified modal currents in ladder resonators: Application to noncircular birdcage coils. <i>Magnetic Resonance in Medicine</i> , <b>2015</b> , 74, 1470-81	4-4	6
898	A Nondestructive Method to Distinguish the Internal Constituent Architecture of the Intervertebral Discs Using 9.4 Tesla Magnetic Resonance Imaging. <b>2015</b> , 40, E1315-22		3
897	Magnetic Resonance Imaging of the Temporomandibular Joint at 7.0 T Using High-Permittivity Dielectric Pads: A Feasibility Study. <b>2015</b> , 50, 843-9		18
896	Inter-echo variance as a weighting factor for multi-channel combination in multi-echo acquisition for local frequency shift mapping. <i>Magnetic Resonance in Medicine</i> , <b>2015</b> , 73, 1654-61	4-4	6
895	Novel inductive decoupling technique for flexible transceiver arrays of monolithic transmission line resonators. <i>Magnetic Resonance in Medicine</i> , <b>2015</b> , 73, 1669-81	4-4	20
894	A form-fitted three channel (31) P, two channel (1) H transceiver coil array for calf muscle studies at 7 T. <i>Magnetic Resonance in Medicine</i> , <b>2015</b> , 73, 2376-89	4-4	32

893	Dedicated receiver array coil for H lung imaging with same-breath acquisition of hyperpolarized He and Xe gas. <i>Magnetic Resonance in Medicine</i> , <b>2015</b> , 74, 291-299	4-4	10
892	Power balance and loss mechanism analysis in RF transmit coil arrays. <i>Magnetic Resonance in Medicine</i> , <b>2015</b> , 74, 1165-76	4-4	22
891	Parallel-plate waveguide for volume radio frequency transmission in MRI. <i>Magnetic Resonance in Medicine</i> , <b>2015</b> , 74, 1482-91	4-4	1
890	Sodium MRI of the human heart at 7.0 T: preliminary results. <b>2015</b> , 28, 967-75		22
889	Development of double-layer coupled coil for improving S/N in 7 T small-animal MRI. <b>2015</b> , 37, 361-71		6
888	Radiofrequency-shielding Effect of a Titanium Mesh Implanted for Cranioplasty. <b>2015</b> , 14, 321-7		5
887	Imaging of reperfused intramyocardial hemorrhage with cardiovascular magnetic resonance susceptibility weighted imaging (SWI). <b>2015</b> , 10, e0123560		1
886	MRI Fundamentals: RF Aspects of Magnetic Resonance Imaging (MRI). <b>2015</b> , 16, 20-33		9
885	Fast Prototyping of Near-Field Antennas for Magnetic Resonance Imaging by Using MoM Simulations and 3D Printing Technology. <b>2015</b> , 57, 261-266		
884	Analysis of the noise correlation in MRI coil arrays loaded with metamaterial magnetoinductive lenses. <b>2015</b> , 34, 1148-54		2
883	Signal-to-noise ratio and parallel imaging performance of commercially available phased array coils in 3.0 T brain magnetic resonance imaging. <b>2015</b> , 8, 305-11		3
882	A FIELD CANCELATION SIGNAL EXTRACTION METHOD FOR MAGNETIC PARTICLE IMAGING. <b>2015</b> , 51,		14
881	Optimal parallel MRI reconstruction over a convex solution space. <b>2015</b> ,		
880	A frequency translation approach for multichannel <sup>13</sup> C spectroscopy. <b>2015</b> , 2015, 1564-7		2
879	PRIMO: Precise radiofrequency inference from multiple observations. <i>Magnetic Resonance in Medicine</i> , <b>2015</b> , 74, 372-83	4-4	4
878	Comparison of local transmit antennas for extremity imaging in MRI. <b>2015</b> ,		1
877	An efficient wireless power transmission system by employing 3 stacked coil antenna arrays. <b>2015</b> ,		1
876	Eight-channel phased array RF coils design for 3T parallel MRI system. <b>2015</b> ,		1

875	Design and implementation of MRI RF coil based on 3D printing. <b>2015,</b>		3
874	MRI of the carotid artery at 7 Tesla: quantitative comparison with 3 Tesla. <b>2015, 41, 773-80</b>		22
873	Simultaneous imaging of radiation-induced cerebral microbleeds, arteries and veins, using a multiple gradient echo sequence at 7 Tesla. <b>2015, 42, 269-79</b>		16
872	Scan time reduction for readout-segmented EPI using simultaneous multislice acceleration: Diffusion-weighted imaging at 3 and 7 Tesla. <i>Magnetic Resonance in Medicine</i> , <b>2015, 74, 136-149</b>	4.4	46
871	The Travelling-Wave Primate System: A New Solution for Magnetic Resonance Imaging of Macaque Monkeys at 7 Tesla Ultra-High Field. <b>2015, 10, e0129371</b>		10
870	Parasitic element based decoupling of 7 tesla MRI coil array. <b>2015,</b>		2
869	Design of a parallel transmit head coil at 7T with magnetic wall distributed filters. <b>2015, 34, 836-45</b>		25
868	Inductively coupled wireless RF coil arrays. <b>2015, 33, 351-7</b>		15
867	Miniaturized multi-coil arrays for functional planar imaging with a single-sided NMR sensor. <b>2015, 254, 10-8</b>		19
866	In vivo sensitivity estimation and imaging acceleration with rotating RF coil arrays at 7 Tesla. <b>2015, 252, 29-40</b>		4
865	Local estimation of the noise level in MRI using structural adaptation. <b>2015, 20, 76-86</b>		15
864	A double-quadrature radiofrequency coil design for proton-decoupled carbon-13 magnetic resonance spectroscopy in humans at 7T. <i>Magnetic Resonance in Medicine</i> , <b>2015, 73, 894-900</b>	4.4	17
863	White matter abnormalities of microstructure and physiological noise in schizophrenia. <b>2015, 9, 868-77</b>		10
862	Design and Test of Magnetic Wall Decoupling for Dipole Transmit/Receive Array for MR Imaging at the Ultrahigh Field of 7T. <b>2015, 46, 59-66</b>		18
861	Cell tracking using (19)F magnetic resonance imaging: technical aspects and challenges towards clinical applications. <b>2015, 25, 726-35</b>		27
860	Quantitative pixel-wise measurement of myocardial blood flow: the impact of surface coil-related field inhomogeneity and a comparison of methods for its correction. <b>2015, 17, 11</b>		7
859	Superconductive Passive Devices. <b>2015, 723-806</b>		
858	Anatomical MRI for Human Brain Morphometry. <b>2015, 3-28</b>		



857	Electromagnetic induction tomography. <b>2015</b> , 61-107		6
856	Susceptibility-Weighted Imaging and Quantitative Susceptibility Mapping. <b>2015</b> , 161-172		1
855	Evolution of Instrumentation for Functional Magnetic Resonance Imaging. <b>2015</b> , 89-96		
854	Resting-state networks in healthy adult subjects: a comparison between a 32-element and an 8-element phased array head coil at 3.0 Tesla. <b>2015</b> , 56, 605-13		4
853	Passive Decoupling Due to Low Q-Factors of Four-Channel Coils in 300-MHz Pulsed EPR Imaging. <b>2015</b> , 46, 671-683		2
852	Magnetic resonance imaging of the inner ear by using a hybrid radiofrequency coil at 7 T. <b>2015</b> , 66, 175-182		4
851	Multi-dimensional flow-preserving compressed sensing (MuFloCoS) for time-resolved velocity-encoded phase contrast MRI. <b>2015</b> , 34, 400-14		13
850	MRI RF array decoupling method with magnetic wall distributed filters. <b>2015</b> , 34, 825-35		20
849	High-throughput hyperpolarized (13)C metabolic investigations using a multi-channel acquisition system. <b>2015</b> , 260, 20-7		7
848	Image reconstruction from phased-array data based on multichannel blind deconvolution. <b>2015</b> , 33, 1106-11136		
847	Reducing acquisition time in clinical MRI by data undersampling and compressed sensing reconstruction. <b>2015</b> , 60, R297-322		125
846	Multi-session complex averaging for high resolution high SNR 3T MR visualization of ex vivo hippocampus and insula. <b>2015</b> ,		
845	Two-dimensional imaging in a lightweight portable MRI scanner without gradient coils. <i>Magnetic Resonance in Medicine</i> , <b>2015</b> , 73, 872-83	4.4	86
844	Recent developments in applications of MRI techniques for foods and agricultural produce—An overview. <b>2015</b> , 52, 1-26		66
843	Feasibility of multianimal hyperpolarized (13) C MRS. <i>Magnetic Resonance in Medicine</i> , <b>2015</b> , 73, 1726-32	4.4	4
842	Pseudo-random center placement O-space imaging for improved incoherence compressed sensing parallel MRI. <i>Magnetic Resonance in Medicine</i> , <b>2015</b> , 73, 2212-24	4.4	13
841	Quantitative susceptibility mapping (QSM): Decoding MRI data for a tissue magnetic biomarker. <i>Magnetic Resonance in Medicine</i> , <b>2015</b> , 73, 82-101	4.4	478
840	Magnetic Resonance Microscopy of Skin. <b>2016</b> , 415-423		

839	A 32-Channel Head Coil Array with Circularly Symmetric Geometry for Accelerated Human Brain Imaging. <b>2016</b> , 11, e0149446		3
838	Quantitative Susceptibility Mapping-Based Microscopy of Magnetic Resonance Venography (QSM-mMRV) for In Vivo Morphologically and Functionally Assessing Cerebrovasculature in Rat Stroke Model. <b>2016</b> , 11, e0149602		24
837	A g-factor metric for k-t SENSE and k-t PCA based parallel imaging. <i>Magnetic Resonance in Medicine</i> , <b>2016</b> , 75, 562-71	4.4	4
836	Signal-to-noise ratio and MR tissue parameters in human brain imaging at 3, 7, and 9.4 tesla using current receive coil arrays. <i>Magnetic Resonance in Medicine</i> , <b>2016</b> , 75, 801-9	4.4	185
835	3D interslab echo-shifted FLASH sequence for susceptibility weighted imaging. <i>Magnetic Resonance in Medicine</i> , <b>2016</b> , 76, 222-8	4.4	7
834	Diagnostic quality assessment of compressed sensing accelerated magnetic resonance neuroimaging. <b>2016</b> , 44, 433-44		17
833	MAGPI: A framework for maximum likelihood MR phase imaging using multiple receive coils. <i>Magnetic Resonance in Medicine</i> , <b>2016</b> , 75, 1218-31	4.4	12
832	General design approach and practical realization of decoupling matrices for parallel transmission coils. <i>Magnetic Resonance in Medicine</i> , <b>2016</b> , 76, 329-39	4.4	5
831	MR-based conductivity imaging using multiple receiver coils. <i>Magnetic Resonance in Medicine</i> , <b>2016</b> , 76, 530-9	4.4	31
830	A semiflexible 64-channel receive-only phased array for pediatric body MRI at 3T. <i>Magnetic Resonance in Medicine</i> , <b>2016</b> , 76, 1015-21	4.4	20
829	A flexible nested sodium and proton coil array with wideband matching for knee cartilage MRI at 3T. <i>Magnetic Resonance in Medicine</i> , <b>2016</b> , 76, 1325-34	4.4	21
828	Coil-to-coil physiological noise correlations and their impact on functional MRI time-series signal-to-noise ratio. <i>Magnetic Resonance in Medicine</i> , <b>2016</b> , 76, 1708-1719	4.4	17
827	Selective channel combination of MRI signal phase. <i>Magnetic Resonance in Medicine</i> , <b>2016</b> , 76, 1469-1477	4.4	7
826	Magnetic field sensitivity at 7-T using dual-helmholtz transmit-only coil and 12-channel receive-only bended coil. <b>2016</b> , 38, 515-524		3
825	Self-calibrated trajectory estimation and signal correction method for robust radial imaging using GRAPPA operator gridding. <i>Magnetic Resonance in Medicine</i> , <b>2016</b> , 75, 883-96	4.4	17
824	Flexible, 31-Channel breast coil for enhanced parallel imaging performance at 3T. <i>Magnetic Resonance in Medicine</i> , <b>2016</b> , 75, 897-905	4.4	6
823	Alternating steady state free precession for estimation of current-induced magnetic flux density: A feasibility study. <i>Magnetic Resonance in Medicine</i> , <b>2016</b> , 75, 2009-19	4.4	8
822	Phased-array combination for MR spectroscopic imaging using a water reference. <i>Magnetic Resonance in Medicine</i> , <b>2016</b> , 76, 733-41	4.4	8

821	Novel splittable N-Tx/2N-Rx transceiver phased array to optimize both signal-to-noise ratio and transmit efficiency at 9.4T. <i>Magnetic Resonance in Medicine</i> , <b>2016</b> , 76, 1621-1628	4.4	4
820	Enhancement of Magnetic Resonance Imaging with Metasurfaces. <b>2016</b> , 28, 1832-8		96
819	Three-layered radio frequency coil arrangement for sodium MRI of the human brain at 9.4 Tesla. <i>Magnetic Resonance in Medicine</i> , <b>2016</b> , 75, 906-16	4.4	38
818	Safety testing and operational procedures for self-developed radiofrequency coils. <b>2016</b> , 29, 1131-44		56
817	The technological future of 7 T MRI hardware. <b>2016</b> , 29, 1305-15		13
816	MPnRAGE: A technique to simultaneously acquire hundreds of differently contrasted MPRAGE images with applications to quantitative T1 mapping. <i>Magnetic Resonance in Medicine</i> , <b>2016</b> , 75, 1040-53 <sup>4.4</sup>		35
815	CSI and SENSE CSI. <b>2016</b> , 1291-1306		1
814	Detection Coils for MRS. <b>2016</b> , 1363-1376		
813	Effects of coplanar shielding for high field MRI. <b>2016</b> , 2016, 6250-6253		3
812	A sub 1 dB NF high dynamic range low-input impedance CMOS amplifier. <b>2016</b> ,		1
811	Full mutual coupling suppression in NMR transmit arrays in the presence of high-permittivity pads. <b>2016</b> ,		1
810	An 8-channel RF coil array for carotid artery MR imaging in humans at 3 T. <b>2016</b> , 43, 1897		9
809	Volume coil based on hybridized resonators for magnetic resonance imaging. <b>2016</b> , 108, 023503		32
808	Magnetic resonance imaging receiver coil decoupling using circumferential shielding structures. <b>2016</b> , 2016, 6254-6257		1
807	Developing a spectral parallelism electronic system for magnetic resonance imaging. <b>2016</b> ,		
806	Morphological component analysis based compressed sensing technique on dynamic MRI reconstruction. <b>2016</b> ,		
805	Ultra-high-field RF coil development for evaluating upper extremity imaging applications. <b>2016</b> , 29, 1768-1779 <sup>7</sup>		
804	Atomic Magnetometer Multisensor Array for rf Interference Mitigation and Unshielded Detection of Nuclear Quadrupole Resonance. <b>2016</b> , 6,		22

803	EBG metasurfaces for MRI application. <b>2016,</b>	0
802	Eight-channel decoupled array for cervical spinal cord imaging at 3T: six-channel posterior and two-channel anterior array coil. <b>2016, 46B, 90-99</b>	5
801	Magnetic Resonance Imaging of Phosphocreatine and Determination of BOLD Kinetics in Lower Extremity Muscles using a Dual-Frequency Coil Array. <b>2016, 6, 30568</b>	10
800	Sensitivity of tissue properties derived from MRgFUS temperature data to input errors and data inclusion criteria: ex vivo study in porcine muscle. <b>2016, 61, N373-85</b>	4
799	Decoupling of antennas with wire metasurface structures: MRI applications. <b>2016,</b>	
798	A three-element <sup>1</sup> H- <sup>31</sup> P dual-tuned array for magnetic resonance spectroscopy at 4.7 T. <b>2016, 2016, 6258-6261</b>	
797	Multi-turn multi-gap transmission line resonators - Concept, design and first implementation at 4.7T and 7T. <b>2016, 273, 65-72</b>	15
796	A Riemannian Bayesian Framework for Estimating Diffusion Tensor Images. <b>2016, 120, 272-299</b>	5
795	A nested phosphorus and proton coil array for brain magnetic resonance imaging and spectroscopy. <b>2016, 124, 602-611</b>	14
794	Eight-Channel Monopole Array Using ICE Decoupling for Human Head MR Imaging at 7 T. <b>2016, 47, 527-538</b>	6
793	General Coupling Matrix Synthesis for Decoupling MRI RF Arrays. <b>2016, 35, 2229-2242</b>	4
792	A robust method for suppressing motion-induced coil sensitivity variations during prospective correction of head motion in fMRI. <b>2016, 34, 1206-19</b>	18
791	Low SNR in Diffusion MRI Models. <b>2016, 111, 1480-1490</b>	4
790	Multi-compartment microscopic diffusion imaging. <b>2016, 139, 346-359</b>	186
789	A method for imaging and spectroscopy using E-rays and magnetic resonance. <b>2016, 537, 652-5</b>	14
788	fMRI of Emotion. <b>2016, 451-494</b>	1
787	Introduction to Functional MRI Hardware. <b>2016, 29-67</b>	2
786	Design and Optimization of a Four-Channel Received Coil for Vertical-Field MRI. <b>2016, 47, 1147-1158</b>	2

785	A novel method for evaluating enhancement using gadolinium-ethoxybenzyl-diethylenetriamine penta-acetic acid in the hepatobiliary phase of magnetic resonance imaging. <b>2016</b> , 40, 1112-1117		6
784	Spatial variability and reproducibility of GABA-edited MEGA-LASER 3D-MRSI in the brain at 3T. <b>2016</b> , 29, 1656-1665		24
783	Optimizing the ICE decoupling element distance to improve monopole antenna arrays for 7 Tesla MRI. <b>2016</b> , 34, 1264-1268		2
782	Zero TE MR bone imaging in the head. <i>Magnetic Resonance in Medicine</i> , <b>2016</b> , 75, 107-114	4.4	142
781	POCS-enhanced inherent correction of motion-induced phase errors (POCS-ICE) for high-resolution multishot diffusion MRI. <i>Magnetic Resonance in Medicine</i> , <b>2016</b> , 75, 169-80	4.4	28
780	Coil combination for receive array spectroscopy: Are data-driven methods superior to methods using computed field maps?. <i>Magnetic Resonance in Medicine</i> , <b>2016</b> , 75, 473-87	4.4	34
779	Quantitative mapping of the per-axon diffusion coefficients in brain white matter. <i>Magnetic Resonance in Medicine</i> , <b>2016</b> , 75, 1752-63	4.4	138
778	Validation of a new T2* algorithm and its uncertainty value for cardiac and liver iron load determination from MRI magnitude images. <i>Magnetic Resonance in Medicine</i> , <b>2016</b> , 75, 1717-29	4.4	7
777	Dense, shape-optimized posterior 32-channel coil for submillimeter functional imaging of visual cortex at 3T. <i>Magnetic Resonance in Medicine</i> , <b>2016</b> , 76, 321-8	4.4	8
776	MR laging. <b>2016</b> , 121-139		1
775	A new parallel MRI image reconstruction model with elastic net regularization. <b>2016</b> ,		0
774	Comprehensive cellular-resolution atlas of the adult human brain. <b>2016</b> , 524, 3127-481		174
773	Depletion-Mode GaN HEMT Q-Spoil Switches for MRI Coils. <b>2016</b> , 35, 2558-2567		11
772	Perianal Crohn's: Review of endoscopic and cross-sectional imaging. <b>2016</b> , 18, 131-135		
771	Screen-printed flexible MRI receive coils. <b>2016</b> , 7, 10839		102
770	Antennas in MRI Systems. <b>2016</b> , 2839-2911		
769	A new fully integrated multichannel receiver design for magnetic resonance imaging. <b>2016</b> , 46B, 134-145		5
768	Concept and Applications of Receiving Mutual Impedance. <b>2016</b> , 235-283		1

767	Multiparametric imaging with heterogeneous radiofrequency fields. <b>2016</b> , 7, 12445		112
766	Superconducting Pickup Coils for NMR and MRI Applications. <b>2016</b> , 1-21		
765	On the optimal reconstruction of dMRI images with multi-coil acquisition system. <b>2016</b> ,		
764	Evaluation of adaptive combination of 30-channel head receive coil array data in <sup>23</sup> Na MR imaging. <i>Magnetic Resonance in Medicine</i> , <b>2016</b> , 75, 527-36	4.4	17
763	Intensity correction for multichannel hyperpolarized <sup>13</sup> C imaging of the heart. <i>Magnetic Resonance in Medicine</i> , <b>2016</b> , 75, 859-65	4.4	16
762	High-performance radiofrequency coils for ( <sup>23</sup> )Na MRI: brain and musculoskeletal applications. <b>2016</b> , 29, 96-106		29
761	Theory of Parallel MRI and Cartesian SENSE Reconstruction: Highlight. <b>2016</b> , 311-328		
760	Optimized parallel transmit and receive radiofrequency coil for ultrahigh-field MRI of monkeys. <b>2016</b> , 125, 153-161		31
759	Estimation of the measurement uncertainty in magnetic resonance velocimetry based on statistical models. <b>2016</b> , 57, 1		22
758	Element decoupling of 7T dipole body arrays by EBG metasurface structures: Experimental verification. <b>2016</b> , 269, 87-96		22
757	Improved multi-shot diffusion imaging using GRAPPA with a compact kernel. <b>2016</b> , 138, 88-99		26
756	Imaging of Epidural Spinal Cord Compression. <b>2016</b> , 723-744		1
755	Electrodynamics and radiofrequency antenna concepts for human magnetic resonance at 23.5 T (1 GHz) and beyond. <b>2016</b> , 29, 641-56		23
754	A subspace-based coil combination method for phased-array magnetic resonance imaging. <i>Magnetic Resonance in Medicine</i> , <b>2016</b> , 75, 762-74	4.4	1
753	Triple-quantum-filtered sodium imaging at 9.4 Tesla. <i>Magnetic Resonance in Medicine</i> , <b>2016</b> , 75, 1278-89	4.4	5
752	Adaptively optimized combination (AOC) of magnetic resonance spectroscopy data from phased array coils. <i>Magnetic Resonance in Medicine</i> , <b>2016</b> , 75, 2235-44	4.4	5
751	SVD analysis of Array transmission and reception and its use for bootstrapping calibration. <i>Magnetic Resonance in Medicine</i> , <b>2016</b> , 76, 1730-1740	4.4	1
750	Passive radiofrequency shimming in the thighs at 3 Tesla using high permittivity materials and body coil receive uniformity correction. <i>Magnetic Resonance in Medicine</i> , <b>2016</b> , 76, 1951-1956	4.4	10

749	Sodium MRI radiofrequency coils for body imaging. <b>2016</b> , 29, 107-18	14
748	Spinal Cord Infarction and Differential Diagnosis. <b>2016</b> , 1125-1183	
747	Volumetric Arterial Spin-labeled Perfusion Imaging of the Kidneys with a Three-dimensional Fast Spin Echo Acquisition. <b>2016</b> , 23, 144-54	21
746	Simulation verification of SNR and parallel imaging improvements by ICE-decoupled loop array in MRI. <b>2016</b> , 47, 395-403	7
745	DWI using navigated interleaved multishot EPI with realigned GRAPPA reconstruction. <i>Magnetic Resonance in Medicine</i> , <b>2016</b> , 75, 280-6	4.4 21
744	SNR in MI Catheter Receivers for MRI. <b>2016</b> , 16, 1700-1707	5
743	Decoupling and shielding numerical optimization of MRI phased-array coils. <b>2016</b> , 82, 450-460	6
742	The Design of an Open MRI 4-Channel Receive-Only Phased Array Knee Coil. <b>2016</b> , 47, 499-510	3
741	Comparison of a 32-channel head coil and a 2-channel surface coil for MR imaging of the temporomandibular joint at 3.0 T. <b>2016</b> , 45, 20150420	9
740	Design of a 3T preamplifier which stability is insensitive to coil loading. <b>2016</b> , 265, 215-23	3
739	Foundations of MRI phase imaging and processing for Quantitative Susceptibility Mapping (QSM). <b>2016</b> , 26, 6-34	78
738	Quantitative assessment of microvasculopathy in arcA mice with USPIO-enhanced gradient echo MRI. <b>2016</b> , 36, 1614-24	23
737	Efficient Compressed Sensing SENSE pMRI Reconstruction With Joint Sparsity Promotion. <b>2016</b> , 35, 354-68	60
736	Magnetic resonance thermometry: Methodology, pitfalls and practical solutions. <b>2016</b> , 32, 63-75	115
735	Sodium-23 MRI of whole spine at 3 Tesla using a 5-channel receive-only phased-array and a whole-body transmit resonator. <b>2016</b> , 26, 95-100	13
734	Improved receiver arrays and optimized parallel imaging accelerations applied to time-resolved 3D fluoroscopically tracked peripheral runoff CE-MRA. <b>2016</b> , 34, 280-8	2
733	Quantitative and qualitative comparison of MR imaging of the temporomandibular joint at 1.5 and 3.0 T using an optimized high-resolution protocol. <b>2016</b> , 45, 20150240	11
732	Thermal noise variance of a receive radiofrequency coil as a respiratory motion sensor. <i>Magnetic Resonance in Medicine</i> , <b>2017</b> , 77, 221-228	4.4 18

731	Susceptibility-weighted imaging: current status and future directions. <b>2017</b> , 30, e3552		85
730	Image Reconstruction for a Rotating Radiofrequency Coil (RRFC) Using Self-Calibrated Sensitivity From Radial Sampling. <b>2017</b> , 64, 274-283		5
729	Automatic T2* determination for quantification of iron load in heart and liver: a comparison between automatic inline Maximum Likelihood Estimate and the truncation and offset methods. <b>2017</b> , 37, 299-304		4
728	Investigating hyperoxic effects in the rat brain using quantitative susceptibility mapping based on MRI phase. <i>Magnetic Resonance in Medicine</i> , <b>2017</b> , 77, 592-602	4.4	11
727	Electromagnetic computation and modeling in MRI. <b>2017</b> , 44, 1186-1203		6
726	Sliding window prior data assisted compressed sensing for MRI tracking of lung tumors. <b>2017</b> , 44, 84-98		11
725	A 32-channel coil system for MR vessel wall imaging of intracranial and extracranial arteries at 3T. <b>2017</b> , 36, 86-92		9
724	Three-dimensional ultrashort echo-time imaging using a FLORET trajectory. <i>Magnetic Resonance in Medicine</i> , <b>2017</b> , 78, 1038-1049	4.4	10
723	Susceptibility-weighted imaging using inter-echo-variance channel combination for improved contrast at 7 tesla. <b>2017</b> , 45, 1113-1124		4
722	Imaging and T relaxometry of short-T connective tissues in the knee using ultrashort echo-time double-echo steady-state (UTEDESS). <i>Magnetic Resonance in Medicine</i> , <b>2017</b> , 78, 2136-2148	4.4	24
721	New resonator geometries for ICE decoupling of loop arrays. <b>2017</b> , 277, 59-67		9
720	Simultaneous PET/MR imaging with a radio frequency-penetrable PET insert. <b>2017</b> , 44, 112-120		19
719	Phosphodiester content measured in human liver by in vivo P MR spectroscopy at 7 tesla. <i>Magnetic Resonance in Medicine</i> , <b>2017</b> , 78, 2095-2105	4.4	17
718	Control of Mutual Coupling in High-Field MRI Transmit Arrays in the Presence of High-Permittivity Liners. <b>2017</b> , 65, 3485-3491		4
717	MEMS switch integrated radio frequency coils and arrays for magnetic resonance imaging. <b>2017</b> , 88, 025003		9
716	Model-based iterative reconstruction for single-shot EPI at 7T. <i>Magnetic Resonance in Medicine</i> , <b>2017</b> , 78, 2250-2264	4.4	7
715	An improved FSL-FIRST pipeline for subcortical gray matter segmentation to study abnormal brain anatomy using quantitative susceptibility mapping (QSM). <b>2017</b> , 39, 110-122		22
714	On the Contribution of Curl-Free Current Patterns to the Ultimate Intrinsic Signal-to-Noise Ratio at Ultra-High Field Strength. <b>2017</b> , 30, e3691		12



713	Partially orthogonal resonators for magnetic resonance imaging. <b>2017</b> , 7, 42347		4
712	Simultaneous Time Interleaved MultiSlice (STIMS) for Rapid Susceptibility Weighted acquisition. <b>2017</b> , 155, 577-586		17
711	Radio-frequency coils for ultra-high field magnetic resonance. <b>2017</b> , 529, 10-16		8
710	A geometrically adjustable receive array for imaging marmoset cohorts. <b>2017</b> , 156, 78-86		12
709	Detection of Focal Longitudinal Changes in the Brain by Subtraction of MR Images. <b>2017</b> , 38, 923-927		12
708	Recent advances in parallel imaging for MRI. <b>2017</b> , 101, 71-95		76
707	Design and Demonstration of Four-Channel Received Coil Arrays for Vertical-Field MRI. <b>2017</b> , 48, 501-515		
706	A purpose-built neck coil for black-blood DANTE-prepared carotid artery imaging at 7T. <b>2017</b> , 40, 53-61		5
705	Imaging of pH in vivo using hyperpolarized C-labelled zymonic acid. <b>2017</b> , 8, 15126		69
704	Analytical modeling provides new insight into complex mutual coupling between surface loops at ultrahigh fields. <b>2017</b> , 30, e3759		6
703	Patch-Probe Excitation for Ultrahigh Magnetic Field Wide-Bore MRI. <b>2017</b> , 65, 2547-2557		3
702	Compressed sensing MRI reconstruction from 3D multichannel data using GPUs. <i>Magnetic Resonance in Medicine</i> , <b>2017</b> , 78, 2265-2274	4-4	12
701	Brain Imaging with Slotted Hybridized Magnetic Metamaterial Hat at 7-T MRI. <b>2017</b> , 48, 67-83		5
700	Method of B0 mapping with magnitude-based correction for bipolar two-point Dixon cardiac MRI. <i>Magnetic Resonance in Medicine</i> , <b>2017</b> , 78, 1862-1869	4-4	5
699	Evaluation of transmit efficiency and SAR for a tight fit transceiver human head phased array at 9.4T. <b>2017</b> , 30, e3680		25
698	Impacting the effect of fMRI noise through hardware and acquisition choices - Implications for controlling false positive rates. <b>2017</b> , 154, 15-22		23
697	Construction and modeling of a reconfigurable MRI coil for lowering SAR in patients with deep brain stimulation implants. <b>2017</b> , 147, 577-588		40
696	Design of a dielectric resonator receive array at 7 Tesla using detunable ceramic resonators. <b>2017</b> , 284, 94-98		6

695	An 8-channel transceiver 7-channel receive RF coil setup for high SNR ultrahigh-field MRI of the shoulder at 7T. <b>2017</b> , 44, 6195-6208		8
694	Optimizing MR imaging-guided navigation for focused ultrasound interventions in the brain. <b>2017</b> ,		2
693	Adsorbed Eutectic GaIn Structures on a Neoprene Foam for Stretchable MRI Coils. <b>2017</b> , 29, 1703744		16
692	Transmit coil design for Wireless Power Transfer for medical implants. <b>2017</b> , 2017, 2158-2161		5
691	Real-time probing of granular dynamics with magnetic resonance. <b>2017</b> , 3, e1701879		34
690	Accelerated Magnetic Resonance Imaging by Adversarial Neural Network. <b>2017</b> , 30-38		9
689	Decoupling capabilities of split-loop resonator structure for 7 Tesla MRI surface array coils. <b>2017</b> ,		
688	Decoupled dynamic magnetic field measurements improves diffusion-weighted magnetic resonance images. <b>2017</b> , 7, 11630		4
687	3D-MB-MUSE: A robust 3D multi-slab, multi-band and multi-shot reconstruction approach for ultrahigh resolution diffusion MRI. <b>2017</b> , 159, 46-56		23
686	Radiofrequency magnetic resonance coils and communication antennas: Simulation and design strategies. <b>2017</b> , 44, 1-7		2
685	7 Tesla 22-channel wrap-around coil array for cervical spinal cord and brainstem imaging. <i>Magnetic Resonance in Medicine</i> , <b>2017</b> , 78, 1623-1634	4-4	19
684	Multiple-input multiple-output (MIMO) MRI: An efficient pulse design algorithm to combine parallel excitation and parallel imaging. <b>2017</b> ,		1
683	Helmholtz transceiver array for improving the  B <sub>1</sub>  -field homogeneity at 7-T magnetic resonance imaging. <b>2017</b> , 25, 147-150		3
682	Hyperpolarized C urea myocardial first-pass perfusion imaging using velocity-selective excitation. <b>2017</b> , 19, 46		14
681	Speed in Clinical Magnetic Resonance. <b>2017</b> , 52, 1-17		50
680	Wireless MRI Colonoscopy for Sensitive Imaging of Vascular Walls. <b>2017</b> , 7, 4228		6
679	Prospective motion correction in functional MRI. <b>2017</b> , 154, 33-42		71
678	Compartmentalized low-rank recovery for high-resolution lipid unsuppressed MRSI. <i>Magnetic Resonance in Medicine</i> , <b>2017</b> , 78, 1267-1280	4-4	12

677	MR imaging of the temporomandibular joint: comparison between acquisitions at 7.0 T using dielectric pads and 3.0 T. <b>2017</b> , 46, 20160280		8
676	The noise factor of receiver coil matching networks in MRI. <b>2017</b> , 37, 252-259		2
675	SNR efficiency of combined bipolar gradient echoes: Comparison of three-dimensional FLASH, MPRAGE, and multiparameter mapping with VFA-FLASH and MP2RAGE. <i>Magnetic Resonance in Medicine</i> , <b>2017</b> , 77, 2186-2202	4-4	7
674	Combining phase images from array coils using a short echo time reference scan (COMPOSER). <i>Magnetic Resonance in Medicine</i> , <b>2017</b> , 77, 318-327	4-4	37
673	Chemical exchange saturation transfer (CEST) imaging with fast variably-accelerated sensitivity encoding (vSENSE). <i>Magnetic Resonance in Medicine</i> , <b>2017</b> , 77, 2225-2238	4-4	22
672	Design and implementation of embedded 8-channel receive-only arrays for whole-brain MRI and fMRI of conscious awake marmosets. <i>Magnetic Resonance in Medicine</i> , <b>2017</b> , 78, 387-398	4-4	14
671	High resolution CBV assessment with PEAK-EPI: k-t-undersampling and reconstruction in echo planar imaging. <i>Magnetic Resonance in Medicine</i> , <b>2017</b> , 77, 2153-2166	4-4	2
670	Materials and methods for higher performance screen-printed flexible MRI receive coils. <i>Magnetic Resonance in Medicine</i> , <b>2017</b> , 78, 775-783	4-4	21
669	Analytical performance bounds for multi-tensor diffusion-MRI. <b>2017</b> , 36, 146-158		4
668	Overview of quantitative susceptibility mapping. <b>2017</b> , 30, e3569		138
667	Adaptively Optimized Combination (AOC) of Phased-Array MR Spectroscopy Data in the Presence of Correlated Noise: Compared with Noise-Decorrelated or Whitened Methods. <i>Magnetic Resonance in Medicine</i> , <b>2017</b> , 78, 848-859	4-4	4
666	Stacked magnetic resonators for MRI RF coils decoupling. <b>2017</b> , 275, 11-18		16
665	Accelerating MRI fat quantification using a signal model-based dictionary to assess gastric fat volume and distribution of fat fraction. <b>2017</b> , 37, 81-89		4
664	An illustrated comparison of processing methods for MR phase imaging and QSM: combining array coil signals and phase unwrapping. <b>2017</b> , 30, e3601		78
663	Flexible RF coil array system utilizing electro-textiles for 3T MRI carotid artery imaging. <b>2017</b> ,		1
662	A Fully Integrated Dual-Channel On-Coil CMOS Receiver for Array Coils in 1.5-10.5 T MRI. <b>2017</b> , 11, 1245-1255		15
661	Electrical Properties Tomography Based on $B_{1\rho}$ Maps in MRI: Principles, Applications, and Challenges. <b>2017</b> , 64, 2515-2530		34
660	CS regularized SENSE pMRI reconstruction via interferometric modulation. <b>2017</b> ,		1

659	Metasurface-based wireless coils for magnetic resonance imaging. <b>2017,</b>		
658	A low-IF bandpass ADC for fully-integrated CMOS magnetic resonance imaging receivers. <b>2017,</b>		1
657	Majorization-minimization algorithms for maximum likelihood estimation of magnetic resonance images. <b>2017,</b>		1
656	An RF-gated wireless power transfer system for wireless MRI receive arrays. <b>2017, 47B,</b>		11
655	Towards new vistas in preamplifier design for MRI. <b>2017,</b>		
654	Towards new vistas in preamplifier design for MRI. <b>2017,</b>		
653	Iterative Schemes to Solve Low-Dimensional Calibration Equations in Parallel MR Image Reconstruction with GRAPPA. <b>2017, 2017, 3872783</b>		5
652	Ultra-high field upper extremity peripheral nerve and non-contrast enhanced vascular imaging. <b>2017, 12, e0175629</b>		9
651	Optimization and simulation of a 16-channel loop and dipole array for head MRI applications at 10.5 Tesla. <b>2017,</b>		2
650	Double-layered dual-tuned RF coil using frequency-selectable PIN-diode control at 7-T MRI. <b>2017, 47B, e21363</b>		8
649	Printed Receive Coils with High Acoustic Transparency for Magnetic Resonance Guided Focused Ultrasound. <b>2018, 8, 3392</b>		16
648	A mixed-order nonlinear diffusion compressed sensing MR image reconstruction. <i>Magnetic Resonance in Medicine</i> , <b>2018, 80, 2215-2222</b>	4.4	3
647	A simple head-sized phantom for realistic static and radiofrequency characterization at high fields. <i>Magnetic Resonance in Medicine</i> , <b>2018, 80, 1738-1745</b>	4.4	11
646	7T ultra-high field body MR imaging with an 8-channel transmit/32-channel receive radiofrequency coil array. <b>2018, 45, 2978-2990</b>		22
645	Simultaneous multislice acquisition without trajectory modification for hyperpolarized C experiments. <i>Magnetic Resonance in Medicine</i> , <b>2018, 80, 1588-1594</b>	4.4	10
644	A highly decoupled transmit-receive array design with triangular elements at 7T. <i>Magnetic Resonance in Medicine</i> , <b>2018, 80, 2267-2274</b>	4.4	6
643	Novel practical SNR determination method for MRI using double echo with longest second echo time (DELSET). <b>2018, 91, 20170652</b>		4
642	The ultimate intrinsic signal-to-noise ratio of loop- and dipole-like current patterns in a realistic human head model. <i>Magnetic Resonance in Medicine</i> , <b>2018, 80, 2122-2138</b>	4.4	19

641	Radiative MRI Coil Design Using Parasitic Scatterers: MRI Yagi. <b>2018</b> , 66, 1570-1575	4
640	Electromagnetic Field and Radio Frequency Circuit Co-Simulation for Magnetic Resonance Imaging Dual-Tuned Radio Frequency Coils. <b>2018</b> , 54,	4
639	An EM Simulation-Based Design Flow for Custom-Built MR Coils Incorporating Signal and Noise. <b>2018</b> , 37, 527-535	4
638	Susceptibility Weighted MRI in Rodents at 9.4 T. <b>2018</b> , 1718, 205-234	2
637	Whole Body MRI and oncology: recent major advances. <b>2018</b> , 91, 20170664	20
636	Combination of surface and 'vertical' loop elements improves receive performance of a human head transceiver array at 9.4 T. <b>2018</b> , 31, e3878	22
635	Radial magnetic resonance imaging (MRI) using a rotating radiofrequency (RF) coil at 9.4 T. <b>2018</b> , 31, e3860	3
634	PET System Technology Designs for Achieving Simultaneous PET/MRI. <b>2018</b> , 1-26	1
633	Locally Enhanced Image Quality with Tunable Hybrid Metasurfaces. <b>2018</b> , 9,	27
632	Diffusion tensor cardiovascular magnetic resonance with a spiral trajectory: An in vivo comparison of echo planar and spiral stimulated echo sequences. <i>Magnetic Resonance in Medicine</i> , <b>2018</b> , 80, 648-654 <sup>4,4</sup>	9
631	An eight-channel sodium/proton coil for brain MRI at 3 T. <b>2018</b> , 31, e3867	10
630	Vascular and Tissue Changes of Magnetic Susceptibility in the Mouse Brain After Transient Cerebral Ischemia. <b>2018</b> , 9, 426-435	17
629	RF pulse methods for use with surface coils: Frequency-modulated pulses and parallel transmission. <b>2018</b> , 291, 84-93	3
628	A new quadrature annular resonator for 3 T MRI based on artificial-dielectrics. <b>2018</b> , 291, 47-52	10
627	B non-uniformity correction of phased-array coils without measuring coil sensitivity. <b>2018</b> , 51, 20-28	1
626	Characterization and evaluation of a flexible MRI receive coil array for radiation therapy MR treatment planning using highly decoupled RF circuits. <b>2018</b> , 63, 08NT02	21
625	Recovering task fMRI signals from highly under-sampled data with low-rank and temporal subspace constraints. <b>2018</b> , 174, 97-110	8
624	Direct matching methods for coils and preamplifiers in MRI. <b>2018</b> , 290, 85-91	1

623	Placental perfusion imaging using velocity-selective arterial spin labeling. <i>Magnetic Resonance in Medicine</i> , <b>2018</b> , 80, 1036-1047	4.4	24
622	A 2-in-1 single-element coil design for transcranial magnetic stimulation and magnetic resonance imaging. <i>Magnetic Resonance in Medicine</i> , <b>2018</b> , 79, 582-587	4.4	2
621	High resolution anatomical and quantitative MRI of the entire human occipital lobe ex vivo at 9.4T. <b>2018</b> , 168, 162-171		17
620	Decoupling of a tight-fit transceiver phased array for human brain imaging at 9.4T: Loop overlapping rediscovered. <i>Magnetic Resonance in Medicine</i> , <b>2018</b> , 79, 1200-1211	4.4	19
619	Rigid-body motion correction of the liver in image reconstruction for golden-angle stack-of-stars DCE MRI. <i>Magnetic Resonance in Medicine</i> , <b>2018</b> , 79, 1345-1353	4.4	12
618	Imaging at ultrahigh magnetic fields: History, challenges, and solutions. <b>2018</b> , 168, 7-32		60
617	Multiecho pseudo-golden angle stack of stars thermometry with high spatial and temporal resolution using k-space weighted image contrast. <i>Magnetic Resonance in Medicine</i> , <b>2018</b> , 79, 1407-1419	4.4	15
616	Computationally Efficient Combination of Multi-channel Phase Data From Multi-echo Acquisitions (ASPIRE). <i>Magnetic Resonance in Medicine</i> , <b>2018</b> , 79, 2996-3006	4.4	40
615	Accelerated multicontrast volumetric imaging with isotropic resolution for improved peri-infarct characterization using parallel imaging, low-rank and spatially varying edge-preserving sparse modeling. <i>Magnetic Resonance in Medicine</i> , <b>2018</b> , 79, 3018-3031	4.4	2
614	Holographic Imaging Approach. <b>2018</b> , 451-482		
613	Exact Calculation of Noise Maps and $\{g\}$ -Factor in GRAPPA Using a $\{k\}$ -Space Analysis. <b>2018</b> , 37, 480-490		4
612	Effects of proximity and noise level of phased array coil elements on overall signal-to-noise in parallel MR spectroscopy. <b>2018</b> , 47, 125-130		4
611	A rigid, stand-off hybrid dipole, and birdcage coil array for 7 T body imaging. <i>Magnetic Resonance in Medicine</i> , <b>2018</b> , 80, 822-832	4.4	14
610	Efficient operator splitting algorithm for joint sparsity-regularized SPIRiT-based parallel MR imaging reconstruction. <b>2018</b> , 46, 81-89		5
609	Manipulating transmit and receive sensitivities of radiofrequency surface coils using shielded and unshielded high-permittivity materials. <b>2018</b> , 31, 355-366		9
608	Self-calibrated correlation imaging with k-space variant correlation functions. <i>Magnetic Resonance in Medicine</i> , <b>2018</b> , 79, 1483-1494	4.4	2
607	Quantitative susceptibility mapping: Report from the 2016 reconstruction challenge. <i>Magnetic Resonance in Medicine</i> , <b>2018</b> , 79, 1661-1673	4.4	95
606	Modular transmit/receive arrays using very-high permittivity dielectric resonator antennas. <i>Magnetic Resonance in Medicine</i> , <b>2018</b> , 79, 1781-1788	4.4	9

605	Rapid anatomical brain imaging using spiral acquisition and an expanded signal model. <b>2018</b> , 168, 88-100	21
604	Diaphragm position can be accurately estimated from the scattering of a parallel transmit RF coil at 7 T. <i>Magnetic Resonance in Medicine</i> , <b>2018</b> , 79, 2164-2169	4-4 10
603	A Wireless Power Transfer System for MRI Scanners. <b>2018</b> ,	5
602	Spectral Quantification. <b>2018</b> , 439-471	
601	Monopole Antenna Array with Individual Shields for Ultra High Field Magnetic Resonance Imaging. <b>2018</b> ,	
600	Multi-channel helical-antenna inner-volume RF coils for ultra-high field MR scanners. <b>2018</b> , 48B,	2
599	Hardware. <b>2018</b> , 473-539	
598	Accelerated Simultaneous Multi-Slice MRI using Subject-Specific Convolutional Neural Networks. <b>2018</b> , 2018, 1636-1640	5
597	. <b>2018</b> ,	
596	Design and Simulation of a Double Tuned RF Coil for 1H and 31P MR imaging at 7T.. <b>2018</b> ,	
595	Design and Analysis of Four Channel Phased Array RF Coil for Spine Scan Using 1.5T MR System. <b>2018</b> ,	
594	SNR improvement when a High Permittivity Material helmet-shaped former is used with a close-fitting Head Array. <b>2018</b> ,	
593	Quantitative myocardial first-pass cardiovascular magnetic resonance perfusion imaging using hyperpolarized [1-C] pyruvate. <b>2018</b> , 20, 73	8
592	Fast GPU Implementation of a Scan-Specific Deep Learning Reconstruction for Accelerated Magnetic Resonance Imaging. <b>2018</b> , 2018, 399-403	2
591	Analysis of Coupling and Loading in RF Coils for Magnetic-Resonance Imaging. <b>2018</b> ,	
590	Passive Decoupling Techniques in Ultra-High Field MRI. <b>2018</b> , 1092, 012049	
589	Super Slice Interpolation For Generating Thin-Slice Images From Multichannel Multislice MRI Data. <b>2018</b> , 2018, 1351-1355	
588	Design Decoupling Methods of Multichannel Phased Array Receive Only RF Coil for Different Structures of 1.5T MRI. <b>2018</b> ,	

587	The impact of 2D cine MR imaging parameters on automated tumor and organ localization for MR-guided real-time adaptive radiotherapy. <b>2018</b> , 63, 235005	4
586	Passive electromagnetic decoupling in an active metasurface of dipoles. <b>2018</b> , 32, 53-61	6
585	Signal Loss Compensation of RF Crossbar Switch Matrix System in Ultra-High Field MRI. <b>2018</b> , 12, 1458-1466	1
584	Simultaneous and inherent correction of B and eddy-current induced distortions in high-resolution diffusion MRI using reversed polarity gradients and multiplexed sensitivity encoding (RPG-MUSE). <b>2018</b> , 183, 985-993	5
583	Association and Dissociation of Optimal Noise and Input Impedance for Low-Noise Amplifiers. <b>2018</b> , 66, 5290-5299	2
582	Nuts and bolts of 4D-MRI for radiotherapy. <b>2018</b> , 63, 21TR01	64
581	Quantitative susceptibility mapping (QSM) with an extended physical model for MRI frequency contrast in the brain: a proof-of-concept of quantitative susceptibility and residual (QUASAR) mapping. <b>2018</b> , 31, e3999	12
580	Feature-dependent intrinsic functional connectivity across cortical depths in the human auditory cortex. <b>2018</b> , 8, 13287	2
579	Flexible 23-channel coil array for high-resolution magnetic resonance imaging at 3 Tesla. <b>2018</b> , 13, e0206963	15
578	Radiofrequency Coil Design for in vivo Sodium Magnetic Resonance Imaging of Mouse Kidney at 9.4T. <b>2018</b> , 22, 65	1
577	Subject-Specific Convolutional Neural Networks for Accelerated Magnetic Resonance Imaging. <b>2018</b> , 2018,	
576	Broadband Huygens Metasurface Based on Hybrid Resonances. <b>2018</b> , 10,	16
575	A flexible 12-channel transceiver array of transmission line resonators for 7 T MRI. <b>2018</b> , 296, 47-59	9
574	Self-decoupled radiofrequency coils for magnetic resonance imaging. <b>2018</b> , 9, 3481	35
573	Electromagnetic Field and Radio Frequency Circuit Co-simulation Approach for Strongly Coupled Coil Array in Magnetic Resonance Imaging. <b>2018</b> ,	
572	Wave Guides for Micromagnetic Resonance. <b>2018</b> , 75-108	
571	Thin-Film Catheter-Based Receivers for Internal MRI. <b>2018</b> , 237-263	
570	Microarrays and Microelectronics for Magnetic Resonance. <b>2018</b> , 59-73	



569	Concentric radiofrequency arrays to increase the statistical power of resting-state maps in monkeys. <b>2018</b> , 178, 287-294	8
568	Decoupling of a double-row 16-element tight-fit transceiver phased array for human whole-brain imaging at 9.4 T. <b>2018</b> , 31, e3964	7
567	Size-adaptable 13-channel receive array for brain MRI in human neonates at 3 T. <b>2018</b> , 31, e3944	12
566	Content-aware compressive magnetic resonance image reconstruction. <b>2018</b> , 52, 118-130	
565	De-noising of 3D multiple-coil MR images using modified LMMSE estimator. <b>2018</b> , 52, 102-117	4
564	Improved sensitivity and limit-of-detection using a receive-only coil in magnetic particle imaging. <b>2018</b> , 63, 13NT02	21
563	A Fast Electromagnetic Field and Radio Frequency Circuit Co-Simulation Approach for Strongly Coupled Coil Array in Magnetic Resonance Imaging. <b>2018</b> , 54, 1-5	4
562	Robust Motion Correction Strategy for Structural MRI in Unsedated Children Demonstrated with Three-dimensional Radial MPnRAGE. <b>2018</b> , 289, 509-516	19
561	Reducing signal-to-noise ratio degradation due to coil coupling in a receiver array for 35 CI MRI at 9.4 T: A comparison of matching and decoupling strategies. <b>2018</b> , 48B, e21383	4
560	Fast, free-breathing and motion-minimized techniques for pediatric body magnetic resonance imaging. <b>2018</b> , 48, 1197-1208	29
559	DRF-GRAPPA: A Parallel MRI Method with a Direct Reconstruction Filter. <b>2018</b> , 73, 130-137	0
558	Design of a forward view antenna for prostate imaging at 7 T. <b>2018</b> , 31, e3993	3
557	Improvements in High Resolution Laryngeal Magnetic Resonance Imaging for Preoperative Transoral Laser Microsurgery and Radiotherapy Considerations in Early Lesions. <b>2018</b> , 8, 216	14
556	Radio Frequency Modeling of Receive Coil Arrays for Magnetic Resonance Imaging. <b>2018</b> , 4, 67	5
555	Pros and cons of ultra-high-field MRI/MRS for human application. <b>2018</b> , 109, 1-50	184
554	A high-impedance detector-array glove for magnetic resonance imaging of the hand. <b>2018</b> , 2, 570-577	38
553	Proton-decoupled carbon magnetic resonance spectroscopy in human calf muscles at 7 T using a multi-channel radiofrequency coil. <b>2018</b> , 8, 6211	9
552	Technical Note: Retrospective reduction in systematic differences across scanner changes by accounting for noise floor effects in diffusion tensor imaging. <b>2018</b> , 45, 4171	5

551	Handy magnetic resonance coils. <b>2018</b> , 2, 557-558		7
550	Evaluation of stacked resonators to enhance the performance of a surface receive-only array for prostate MRI at 3 Tesla. <b>2018</b> , 53, 164-172		1
549	Numerical Simulation and Evaluation of a Four-Channel-by-Four-Channel Double-Nuclear RF Coil for 1H MRI and 31P MRSI at 7 T. <b>2018</b> , 54, 1-5		2
548	Comparision of new element designs for combined RF-Shim arrays at 7 T. <b>2018</b> , 48B,		1
547	Design of a Quadrature 1H/31P Coil Using Bent Dipole Antenna and Four-Channel Loop at 3T MRI. <b>2018</b> , 37, 2613-2618		5
546	Metamaterial-based transmit and receive system for whole-body magnetic resonance imaging at ultra-high magnetic fields. <b>2018</b> , 13, e0191719		7
545	RF coils: A practical guide for nonphysicists. <b>2018</b> , 48, 590		65
544	The Application of In Vivo MRI and MRS in Phenomic Studies of Murine Models of Disease. <b>2018</b> , 19-62		
543	Dynamic off-resonance correction for spiral real-time MRI of speech. <i>Magnetic Resonance in Medicine</i> , <b>2019</b> , 81, 234-246	4.4	18
542	Head motion measurement and correction using FID navigators. <i>Magnetic Resonance in Medicine</i> , <b>2019</b> , 81, 258-274	4.4	24
541	Modeling of Electrically Triggered Tunable Magnetic Metamaterial Hat for Multifunctional Control in MRI Applications. <b>2019</b> , 14, 91-107		4
540	MR fingerprinting as a diagnostic tool in patients with frontotemporal lobe degeneration: A pilot study. <b>2019</b> , 32, e4157		4
539	Short-T MRI: Principles and recent advances. <b>2019</b> , 114-115, 237-270		21
538	Coil profile estimation strategies for parallel imaging with hyperpolarized C MRI. <i>Magnetic Resonance in Medicine</i> , <b>2019</b> , 82, 2104-2117	4.4	6
537	Calibrationless Oscar-Based Image Reconstruction in Compressed Sensing Parallel MRI. <b>2019</b> ,		4
536	Understanding the physical relations governing the noise navigator. <i>Magnetic Resonance in Medicine</i> , <b>2019</b> , 82, 2236-2247	4.4	4
535	Design, Implementation, and Evaluation of a Head and Neck MRI RF Array Integrated with a 511 keV Transmission Source for Attenuation Correction in PET/MR. <b>2019</b> , 19,		2
534	Directionality guided non linear diffusion compressed sensing MR image reconstruction. <i>Magnetic Resonance in Medicine</i> , <b>2019</b> , 82, 2326-2342	4.4	1

533	Numerical Calculations of Multi-Channel Receiver Coil Array with High-Pass Spoke Coil for Parallel MRI. <b>2019</b> , 74, 1073-1078		
532	A variable flip angle golden-angle-ordered 3D stack-of-radial MRI technique for simultaneous proton resonant frequency shift and T <sub>2</sub> -based thermometry. <i>Magnetic Resonance in Medicine</i> , <b>2019</b> , 82, 2062-2076	4.4	9
531	Parasitic Element Based Decoupling Network for a Two-Element MRI Phased Array. <b>2019</b> ,		
530	Quantitative assessment of phased array coils with different numbers of receiving channels in terms of signal-to-noise ratio and spatial noise variation in magnetic resonance imaging. <b>2019</b> , 14, e0219407		3
529	A comparison of sLASER and MEGA-sLASER using simultaneous interleaved acquisition for measuring GABA in the human brain at 7T. <b>2019</b> , 14, e0223702		8
528	Cadaver Measurement Results Using Ultra-flexible Electro-textile MRI RF Coil. <b>2019</b> ,		
527	Stitching Stretchable Radiofrequency Coils for MRI: A Conductive Thread and Athletic Fabric Approach. <b>2019</b> , 2019, 6798-6801		1
526	Parallel magnetic resonance image reconstruction from a single-element parametric amplifier. <b>2019</b> , 63, 147-154		1
525	Bayesian Reconstruction of Undersampled Multicoil Hardi. <b>2019</b> ,		
524	A Theoretical Study on Circular Wire and Flat Strip Conductor Inductance for Magnetic Resonance-Shielded Phased-Array Circular Coils. <b>2019</b> , 50, 1391-1398		0
523	Dual-Tuned Monopole/Loop Coil Array for Concurrent RF Excitation and Reception Capability for MRI. <b>2019</b> , 75, 610-616		4
522	Deconstructing and reconstructing MRI hardware. <b>2019</b> , 306, 134-138		10
521	The advantages of radial trajectories for vessel-selective dynamic angiography with arterial spin labeling. <b>2019</b> , 32, 643-653		0
520	Reduction of bias in the evaluation of fractional anisotropy and mean diffusivity in magnetic resonance diffusion tensor imaging using region-of-interest methodology. <b>2019</b> , 9, 13095		3
519	Improved MR thermometry for laser interstitial thermotherapy. <b>2019</b> , 51, 286-300		15
518	Design and testing of a 24-channel head coil for MR imaging at 3 T. <b>2019</b> , 58, 162-173		4
517	Multiresolution radial MRI to reduce IDLE time in pre-beam imaging on an MR-Linac (MR-RIDDLE). <b>2019</b> , 64, 055011		4
516	Efficient shear wave elastography using transient acoustic radiation force excitations and MR displacement encoding. <i>Magnetic Resonance in Medicine</i> , <b>2019</b> , 81, 3153-3167	4.4	2

515	Coil combination methods for multi-channel hyperpolarized C imaging data from human studies. <b>2019</b> , 301, 73-79		11
514	Array Noise Matching via the Scattering Matrix. <b>2019</b> , 67, 2344-2353		0
513	Sodium MRI with 3D-cones as a measure of tumour cellularity in high grade serous ovarian cancer. <b>2019</b> , 6, 156-162		7
512	The MR Cap: A single-sided MRI system designed for potential point-of-care limited field-of-view brain imaging. <i>Magnetic Resonance in Medicine</i> , <b>2019</b> , 82, 1946-1960	4.4	26
511	Optimal Phased-Array Signal Combination For Polyunsaturated Fatty Acids Measurement In Breast Cancer Using Multiple Quantum Coherence MR Spectroscopy At 3T. <b>2019</b> , 9, 9259		5
510	Feasibility of absolute quantification for P MRS at 7 T. <i>Magnetic Resonance in Medicine</i> , <b>2019</b> , 82, 49-61	4.4	5
509	A dual-tuned multichannel bilateral RF coil for H/ Na breast MRI at 7 T. <i>Magnetic Resonance in Medicine</i> , <b>2019</b> , 82, 1566-1575	4.4	8
508	Multiple-Input Multiple-Output (MIMO) MRI: Combining Parallel Excitation and Parallel Reception for Enhanced Imaging. <b>2019</b> , 5, 596-605		1
507	Compressed sensing reconstruction of 7 Tesla Na multi-channel breast data using H MRI constraint. <b>2019</b> , 60, 145-156		10
506	A combined 32-channel receive-loops/8-channel transmit-dipoles coil array for whole-brain MR imaging at 7T. <i>Magnetic Resonance in Medicine</i> , <b>2019</b> , 82, 1229-1241	4.4	16
505	Full utilization of conjugate symmetry: combining virtual conjugate coil reconstruction with partial Fourier imaging for g-factor reduction in accelerated MRI. <i>Magnetic Resonance in Medicine</i> , <b>2019</b> , 82, 1073-1090	4.4	1
504	Design and Evaluation of a Novel Symmetric Multichannel Transmit/Receive Coil Array for Cardiac MRI in Pigs at 7 T. <b>2019</b> , 67, 3928-3945		8
503	Dynamic water/fat separation and inhomogeneity mapping-joint estimation using undersampled triple-echo multi-spoke radial FLASH. <i>Magnetic Resonance in Medicine</i> , <b>2019</b> , 82, 1000-1011	4.4	3
502	Feasibility study of a double resonant 8-channel H/ 8-channel Na receive-only head coil at 3 Tesla. <b>2019</b> , 59, 97-104		5
501	Integrated radiofrequency array and animal holder design for minimizing head motion during awake marmoset functional magnetic resonance imaging. <b>2019</b> , 193, 126-138		21
500	Evaluation of a Flexible 12-Channel Screen-printed Pediatric MRI Coil. <b>2019</b> , 291, 180-185		20
499	An 8-channel receive array for improved P MRSI of the whole brain at 3T. <i>Magnetic Resonance in Medicine</i> , <b>2019</b> , 82, 825-832	4.4	5
498	Comparison of four MR carotid surface coils at 3T. <b>2019</b> , 14, e0213107		4

497	Radial streak artifact reduction using phased array beamforming. <i>Magnetic Resonance in Medicine</i> , <b>2019</b> , 81, 3915-3923	4.4	5
496	Wireless coils based on resonant and nonresonant coupled-wire structure for small animal multinuclear imaging. <b>2019</b> , 32, e4079		8
495	Evaluation of short folded dipole antennas as receive elements of ultra-high-field human head array. <i>Magnetic Resonance in Medicine</i> , <b>2019</b> , 82, 811-824	4.4	8
494	Methodological consensus on clinical proton MRS of the brain: Review and recommendations. <i>Magnetic Resonance in Medicine</i> , <b>2019</b> , 82, 527-550	4.4	134
493	An MRI Compatible RF MEMs Controlled Wireless Power Transfer System. <b>2019</b> , 67, 1717-1726		11
492	Shape Optimization of an Electric Dipole Array for 7 Tesla Neuroimaging. <b>2019</b> , 38, 2177-2187		14
491	Brain imaging with improved acceleration and SNR at 7 Tesla obtained with 64-channel receive array. <i>Magnetic Resonance in Medicine</i> , <b>2019</b> , 82, 495-509	4.4	26
490	Cancer in the crosshairs: targeting cancer metabolism with hyperpolarized carbon-13 MRI technology. <b>2019</b> , 32, e3937		8
489	Feasibility study of a double resonant (H/Na) abdominal RF setup at 3T. <b>2019</b> , 29, 359-367		7
488	In vivo H MRS of human gallbladder bile in understanding the pathophysiology of primary sclerosing cholangitis (PSC): Immune-mediated disease versus bile acid-induced injury. <b>2019</b> , 32, e4065		4
487	Scan-Specific Residual Convolutional Neural Networks for Fast MRI Using Residual RAKI. <b>2019</b> ,		2
486	Adjustable acoustic pattern controlled by "Acoustic mirrors". <b>2019</b> ,		1
485	Fast Spatially Coherent Fiber Orientation Estimation in Diffusion MRI from kq-Space Sampling. <b>2019</b> ,		
484	Ultrahigh field magnetic resonance imaging: new frontiers and possibilities in human imaging. <b>2019</b> , 62, 1214-1232		1
483	Analysis of physiological noise in quantitative cardiac magnetic resonance. <b>2019</b> , 14, e0214566		
482	Implementation of Simultaneous Multi-Parameter Monitoring Based in LC-Type Passive Wireless Sensing with Partial Overlapping and Decoupling Coils. <b>2019</b> , 19,		3
481	Coil combination using linear deconvolution in k-space for phase imaging. <b>2019</b> , 9, 1792-1803		1
480	SNR Analysis of Apodization Filters on Raw Data for MR image reconstruction. <b>2019</b> ,		1

479	Quantitative Magnetic Resonance Imaging of the Skin. <b>2019</b> , 341-369		
478	Achieving electromagnetic compatibility of wireless power transfer antennas inside MRI system. <b>2019</b> , 6, 138-153		2
477	The dual-mode dipole: A new array element for 7T body imaging with reduced SAR. <i>Magnetic Resonance in Medicine</i> , <b>2019</b> , 81, 1459-1469	4.4	12
476	Computation of exact g-factor maps in 3D GRAPPA reconstructions. <i>Magnetic Resonance in Medicine</i> , <b>2019</b> , 81, 1353-1367	4.4	
475	Precision and accuracy of cross-sectional area measurements used to measure coronary endothelial function with spiral MRI. <i>Magnetic Resonance in Medicine</i> , <b>2019</b> , 81, 291-302	4.4	6
474	Functional MRS with J-edited lactate in human motor cortex at 4 T. <b>2019</b> , 184, 101-108		10
473	Performance evaluation of RF coils integrated with an RF-penetrable PET insert for simultaneous PET/MRI. <i>Magnetic Resonance in Medicine</i> , <b>2019</b> , 81, 1434-1446	4.4	5
472	A Novel Segmentation Algorithm Based on Level Set Approach with Intensity Inhomogeneity: Application to Medical Images. <b>2019</b> , 443-451		
471	Fast high-resolution brain metabolite mapping on a clinical 3T MRI by accelerated H-FID-MRSI and low-rank constrained reconstruction. <i>Magnetic Resonance in Medicine</i> , <b>2019</b> , 81, 2841-2857	4.4	17
470	Size-adaptable "Trellis" structure for tailored MRI coil arrays. <i>Magnetic Resonance in Medicine</i> , <b>2019</b> , 81, 3406-3415	4.4	7
469	Improved Decoupling for Low Frequency MRI Arrays using Non-conventional Preamplifier Impedance. <b>2018</b> ,		3
468	High resolution in-vivo DT-CMR using an interleaved variable density spiral STEAM sequence. <i>Magnetic Resonance in Medicine</i> , <b>2019</b> , 81, 1580-1594	4.4	3
467	Disentangling the effects of high permittivity materials on signal optimization and sample noise reduction via ideal current patterns. <i>Magnetic Resonance in Medicine</i> , <b>2019</b> , 81, 2746-2758	4.4	2
466	Estimation of the minimum detectable phase change of surface coil for neural current MRI. <b>2019</b> , 42, 83-90		
465	Open-source hardware designs for MRI of mice, rats, and marmosets: Integrated animal holders and radiofrequency coils. <b>2019</b> , 312, 65-72		12
464	A Novel Expandable Catheter Wireless Amplified NMR Detector for MR Sensitivity Accessing the Kidney in Rodent Model. <b>2019</b> , 13, 444-453		4
463	Low-field MRI: An MR physics perspective. <b>2019</b> , 49, 1528-1542		79
462	A surface loop array for in vivo small animal MRI/fMRI on 7T human scanners. <b>2019</b> , 64, 035009		4

461	Automatic Resonance Frequency Retuning of Stretchable Liquid Metal Receive Coil for Magnetic Resonance Imaging. <b>2019</b> , 38, 1420-1426		3
460	A Flexible and Modular Receiver Coil Array for Magnetic Resonance Imaging. <b>2019</b> , 38, 824-833		3
459	Frequency-modulated SSFP with radial sampling and subspace reconstruction: A time-efficient alternative to phase-cycled bSSFP. <i>Magnetic Resonance in Medicine</i> , <b>2019</b> , 81, 1566-1579	4.4	3
458	CORE-PI: Non-iterative convolution-based reconstruction for parallel MRI in the wavelet domain. <b>2019</b> , 46, 199-214		3
457	Comparing signal-to-noise ratio for prostate imaging at 7T and 3T. <b>2019</b> , 49, 1446-1455		9
456	Correction of B eddy current effects in spiral MRI. <i>Magnetic Resonance in Medicine</i> , <b>2019</b> , 81, 2501-2513	4.4	17
455	Double-row 18-loop transceive-32-loop receive tight-fit array provides for whole-brain coverage, high transmit performance, and SNR improvement near the brain center at 9.4T. <i>Magnetic Resonance in Medicine</i> , <b>2019</b> , 81, 3392-3405	4.4	14
454	Potential acceleration performance of a 256-channel whole-brain receive array at 7 T. <i>Magnetic Resonance in Medicine</i> , <b>2019</b> , 81, 1659-1670	4.4	10
453	Multiple-point magnetic resonance acoustic radiation force imaging. <i>Magnetic Resonance in Medicine</i> , <b>2019</b> , 81, 1104-1117	4.4	5
452	HASAN: Highly accurate sensitivity for auto-contrast-corrected pMRI reconstruction. <b>2019</b> , 55, 153-170		
451	Reactive-element based decoupling network for a two-element MRI phased array. <b>2020</b> , 32, 42-50		0
450	A Reconfigurable Platform for Magnetic Resonance Data Acquisition and Processing. <b>2020</b> , 39, 1138-1148		3
449	Toward whole-cortex enhancement with an ultrahigh dielectric constant helmet at 3T. <i>Magnetic Resonance in Medicine</i> , <b>2020</b> , 83, 1123-1134	4.4	4
448	A geometrically decoupled, twisted solenoid single-axis gradient coil set for TRASE. <i>Magnetic Resonance in Medicine</i> , <b>2020</b> , 83, 1484-1498	4.4	3
447	Shielded-coaxial-cable coils as receive and transceive array elements for 7T human MRI. <i>Magnetic Resonance in Medicine</i> , <b>2020</b> , 83, 1135-1146	4.4	16
446	A flexible 9-channel coil array for fast 3D MR thermometry in MR-guided high-intensity focused ultrasound (HIFU) studies on rabbits at 3 T. <b>2020</b> , 65, 37-44		3
445	An In-Bore Receiver for Magnetic Resonance Imaging. <b>2020</b> , 39, 997-1007		4
444	Channel-combination method for phase-based  B  mapping techniques. <b>2020</b> , 65, 1-7		

443	Signal feedback applications in low-field NMR and MRI. <b>2020</b> , 310, 106622		
442	A dual-tuned O/H head array for direct brain oximetry at 3 Tesla. <i>Magnetic Resonance in Medicine</i> , <b>2020</b> , 83, 1512-1518	4.4	4
441	Impact of (k,t) sampling on DCE MRI tracer kinetic parameter estimation in digital reference objects. <i>Magnetic Resonance in Medicine</i> , <b>2020</b> , 83, 1625-1639	4.4	4
440	Referenceless multi-channel signal combination: A demonstration in chemical-shift-encoded water-fat imaging. <i>Magnetic Resonance in Medicine</i> , <b>2020</b> , 83, 1810-1824	4.4	2
439	Comparison of optimized intensity correction methods for Na MRI of the human brain using a 32-channel phased array coil at 7 Tesla. <b>2020</b> , 30, 104-115		8
438	3D Whole-heart free-breathing qBOOST-T2 mapping. <i>Magnetic Resonance in Medicine</i> , <b>2020</b> , 83, 1673-1687	4.4	6
437	Assessment and correction of macroscopic field variations in 2D spoiled gradient-echo sequences. <i>Magnetic Resonance in Medicine</i> , <b>2020</b> , 84, 620-633	4.4	2
436	One-Stop MR Neurovascular Vessel Wall Imaging With a 48-Channel Coil System at 3 T. <b>2020</b> , 67, 2317-2327		3
435	Topological modes in radiofrequency resonator arrays. <b>2020</b> , 384, 126177		3
434	Segmented diffusion imaging with iterative motion-corrected reconstruction (SEDIMENT) for brain echo-planar imaging. <b>2020</b> , 33, e4185		4
433	Autonomous cryogenic RF receive coil for C imaging of rodents at 3 T. <i>Magnetic Resonance in Medicine</i> , <b>2020</b> , 84, 497-508	4.4	2
432	Multi-site harmonization of 7 tesla MRI neuroimaging protocols. <b>2020</b> , 206, 116335		17
431	A 16-channel AC/DC array coil for anesthetized monkey whole-brain imaging at 7T. <b>2020</b> , 207, 116396		12
430	Investigation of a Dual-Tuned RF Coil Array Decoupled Using ICE Technique for 1H/19F MR Imaging at 3T. <b>2020</b> , 56, 1-4		1
429	MRI phase offset correction method impacts quantitative susceptibility mapping. <b>2020</b> , 74, 139-151		1
428	Metamaterial Magnetic Sheet at 3.7-T MRI for Animal Imaging. <b>2020</b> , 49, 7495-7501		
427	Contemporary approaches to high-field magnetic resonance imaging with large field inhomogeneity. <b>2020</b> , 120-121, 95-108		4
426	Multi-site benchmarking of clinical C RF coils at 3T. <b>2020</b> , 318, 106798		5



425	Estimation error bound for GRAPPA diffusion-weighted MRI. <b>2020</b> , 74, 181-194	0
424	CORE-Deblur: Parallel MRI Reconstruction by Deblurring using compressed sensing. <b>2020</b> , 72, 25-33	2
423	Over-overlapped loop arrays: A numerical study. <b>2020</b> , 72, 135-142	1
422	Development and optimization of a receive-only surface array with purely geometrical decoupling for rat brain MRI at 2 T. <b>2020</b> , 36, 341-348	
421	A dedicated eight-channel receive RF coil array for monkey brain MRI at 9.4 T. <b>2020</b> , 33, e4369	0
420	Bent folded-end dipole head array for ultrahigh-field MRI turns "dielectric resonance" from an enemy to a friend. <i>Magnetic Resonance in Medicine</i> , <b>2020</b> , 84, 3453-3467	4-4 9
419	Placental MRI: Development of an MRI compatible ex vivo system for whole placenta dual perfusion. <b>2020</b> , 101, 4-12	2
418	The state-of-the-art and emerging design approaches of double-tuned RF coils for X-nuclei, brain MR imaging and spectroscopy: A review. <b>2020</b> , 72, 103-116	10
417	R-FMRI Reconstruction from K-T Undersampled Simultaneous-Multislice (SMS) MRI with Controlled Aliasing: Towards Higher Spatial Resolution. <b>2020</b> ,	1
416	Matching and decoupling networks for receive-only MRI arrays. <b>2020</b> ,	0
415	A pilot study of magnetic resonance fingerprinting in Parkinson's disease. <b>2020</b> , 33, e4389	3
414	New acquisition techniques and their prospects for the achievable resolution of fMRI. <b>2020</b> , 207, 101936	7
413	Parallel high-frequency magnetic sensing with an array of flux transformers and multi-channel optically pumped magnetometer for hand MRI application. <b>2020</b> , 128, 154503	1
412	A Review of Non-H RF Receive Arrays in Magnetic Resonance Imaging and Spectroscopy.. <b>2020</b> , 1, 290-300	1
411	Investigation of Low-Cost Op-Amps as Decoupling Preamplifiers for MRI Array Coils. <b>2020</b> , 2020, 1473-1476	
410	A Magnetic Resonance-Guided Focused Ultrasound Neuromodulation System With a Whole Brain Coil Array for Nonhuman Primates at 3 T. <b>2020</b> , 39, 4401-4412	1
409	Hardware of MRI System. <b>2020</b> ,	
408	Analysis of High Impedance Coils Both in Transmission and Reception Regimes. <b>2020</b> , 8, 129754-129762	5

407	Design of Distributed Spiral Resonators for the Decoupling of MRI Array Coils. <b>2020</b> ,		
406	Phased-array combination of 2D MRS for lipid composition quantification in patients with breast cancer. <b>2020</b> , 10, 20041		
405	Capacitive versus Overlap Decoupling of Adjacent Radio Frequency Phased Array Coil Elements: An Imaging Robustness Comparison When Sample Load Varies for 3 Tesla MRI. <b>2020</b> , 2020,		0
404	Multi-centre, multi-vendor reproducibility of 7T QSM and R* in the human brain: Results from the UK7T study. <b>2020</b> , 223, 117358		9
403	A transmit-receive array for brain imaging with a high-performance gradient insert. <i>Magnetic Resonance in Medicine</i> , <b>2020</b> , 84, 2278-2289	4.4	1
402	Towards HCP-Style macaque connectomes: 24-Channel 3T multi-array coil, MRI sequences and preprocessing. <b>2020</b> , 215, 116800		28
401	Detector clothes for MRI: A wearable array receiver based on liquid metal in elastic tubes. <b>2020</b> , 10, 8844		6
400	Microscopic susceptibility anisotropy imaging. <i>Magnetic Resonance in Medicine</i> , <b>2020</b> , 84, 2739-2753	4.4	4
399	Tunable Ultrahigh Dielectric Constant (tuHDC) Ceramic Technique to Largely Improve RF Coil Efficiency and MR Imaging Performance. <b>2020</b> , 39, 3187-3197		3
398	What scans we will read: imaging instrumentation trends in clinical oncology. <b>2020</b> , 20, 38		9
397	Subsampled brain MRI reconstruction by generative adversarial neural networks. <b>2020</b> , 65, 101747		18
396	Serial and Parallel Active Decoupling Characterization Using RF MEMS Switches for Receiver Endoluminal Coils at 1.5 T. <b>2020</b> , 20, 10511-10520		4
395	A half-century of innovation in technology-preparing MRI for the 21st century. <b>2020</b> , 93, 20200113		6
394	Advancing machine learning for MR image reconstruction with an open competition: Overview of the 2019 fastMRI challenge. <i>Magnetic Resonance in Medicine</i> , <b>2020</b> , 84, 3054-3070	4.4	77
393	Technical Note: Effect of transducer position and ground plane configuration on image quality in MR-guided focused ultrasound therapies. <b>2020</b> , 47, 2350-2355		1
392	Benchmarking MRI Reconstruction Neural Networks on Large Public Datasets. <b>2020</b> , 10, 1816		14
391	Multi-Loop Radio Frequency Coil Elements for Magnetic Resonance Imaging: Theory, Simulation, and Experimental Investigation. <b>2020</b> , 7,		2
390	Fast Quantitative Magnetic Resonance Imaging. <b>2020</b> , 15, i-124		

389	WARF: A Weighted-Sum Approach to Radial MRI Image Reconstruction With a Rotating RF Coil. <b>2020</b> , 6, 558-568		
388	Metabolite cycled liver H MRS on a 7 T parallel transmit system. <b>2020</b> , 33, e4343		5
387	Strong diffusion gradients allow the separation of intra- and extra-axonal gradient-echo signals in the human brain. <b>2020</b> , 217, 116793		11
386	Denoise magnitude diffusion magnetic resonance images via variance-stabilizing transformation and optimal singular-value manipulation. <b>2020</b> , 215, 116852		6
385	Optimized truncation to integrate multi-channel MRS data using rank-R singular value decomposition. <b>2020</b> , 33, e4297		2
384	Decoupling of folded-end dipole antenna elements of a 9.4 T human head array using an RF shield. <b>2020</b> , 33, e4351		4
383	R-fMRI reconstruction from k-t undersampled data using a subject-invariant dictionary model and VB-EM with nested minorization. <b>2020</b> , 65, 101752		2
382	Simulating single-coil MRI from the responses of multiple coils. <b>2020</b> , 15, 115-127		2
381	Design of Distributed Spiral Resonators for the Decoupling of MRI Double-Tuned RF Coils. <b>2020</b> , 67, 2806-28168		
380	Conductive Thread-Based Stretchable and Flexible Radiofrequency Coils for Magnetic Resonance Imaging. <b>2020</b> , 67, 2187-2193		7
379	Double-tuned P/ H human head array with high performance at both frequencies for spectroscopic imaging at 9.4T. <i>Magnetic Resonance in Medicine</i> , <b>2020</b> , 84, 1076-1089	4-4	10
378	A parametric study of radiative dipole body array coil for 7 Tesla MRI. <b>2020</b> , 39, 100764		5
377	Whole-brain chemical exchange saturation transfer imaging with optimized turbo spin'écho readout. <i>Magnetic Resonance in Medicine</i> , <b>2020</b> , 84, 1161-1172	4-4	7
376	A 16-channel loop array for in vivo macaque whole-brain imaging at 3 T. <b>2020</b> , 68, 167-172		6
375	H-guided reconstruction of F gas MRI in COPD patients. <i>Magnetic Resonance in Medicine</i> , <b>2020</b> , 84, 1336-1346	4-4	10
374	Imaging Safety and Technical Considerations in the Reproductive Age Female. <b>2020</b> , 58, 199-213		2
373	Optimization of a transmit/receive surface coil for squirrel monkey spinal cord imaging. <b>2020</b> , 68, 197-202		2
372	Self-navigation for 3D multishot EPI with data-reference. <i>Magnetic Resonance in Medicine</i> , <b>2020</b> , 84, 1747-1762	4-4	7

371	Single-shot EPI for ASL-CMR. <i>Magnetic Resonance in Medicine</i> , <b>2020</b> , 84, 738-750	4.4	6
370	Sensitivity and uniformity improvement of phased array MR images using inductive coupling and RF detuning circuits. <b>2020</b> , 33, 725-733		2
369	Design and verification of 5-channel 1.5T knee joint receiving coil based on wearable technology. <b>2020</b> , 28, 495-505		
368	Mathematical Models for Magnetic Resonance Imaging Reconstruction: An Overview of the Approaches, Problems, and Future Research Areas. <b>2020</b> , 37, 24-32		39
367	Optimization Methods for Magnetic Resonance Image Reconstruction: Key Models and Optimization Algorithms. <b>2020</b> , 37, 33-40		57
366	Inside-out azimuthally selective NMR tool using array coil and capacitive decoupling. <b>2020</b> , 315, 106735		3
365	Anatomically Adaptive Coils for MRI: A 6-Channel Array for Knee Imaging at 1.5 Tesla. <b>2020</b> , 8,		5
364	Substantia Nigra Volume Dissociates Bradykinesia and Rigidity from Tremor in Parkinson's Disease: A 7 Tesla Imaging Study. <b>2020</b> , 10, 591-604		11
363	Perspectives in Wireless Radio Frequency Coil Development for Magnetic Resonance Imaging. <b>2020</b> , 8,		3
362	A Flexible Array for Cardiac <sup>31</sup> P MR Spectroscopy at 7 T. <b>2020</b> , 8,		0
361	Three-dimensional motion-corrected T relaxometry with MPnRAGE. <i>Magnetic Resonance in Medicine</i> , <b>2020</b> , 84, 2400-2411	4.4	6
360	An 8-element Tx/Rx array utilizing MEMS detuning combined with 6 Rx loops for F and H lung imaging at 1.5T. <i>Magnetic Resonance in Medicine</i> , <b>2020</b> , 84, 2262-2277	4.4	5
359	MD-Recon-Net: A Parallel Dual-Domain Convolutional Neural Network for Compressed Sensing MRI. <b>2021</b> , 5, 120-135		8
358	Magnetic-Resonance-Based Electrical Property Mapping Using Global Maxwell Tomography With an 8-Channel Head Coil at 7 Tesla: A Simulation Study. <b>2021</b> , 68, 236-246		7
357	A Frequency Translation System for Multi-Channel, Multi-Nuclear MR Spectroscopy. <b>2021</b> , 68, 109-118		2
356	Accelerating the co-simulation method for the design of transmit array coils for MRI. <b>2021</b> , 34, 165-178		2
355	Preprocessing, analysis and quantification in single-voxel magnetic resonance spectroscopy: experts' consensus recommendations. <b>2021</b> , 34, e4257		58
354	Ultrahigh-resolution quantitative spinal cord MRI at 9.4T. <i>Magnetic Resonance in Medicine</i> , <b>2021</b> , 85, 1013-1027	4.10	21

353	Mn-based fiducial markers for rapid and automated RF coil localization for hyperpolarized C MRI. <i>Magnetic Resonance in Medicine</i> , <b>2021</b> , 85, 518-530	4.4	2
352	Three-element matching networks for receive-only MRI coil decoupling. <i>Magnetic Resonance in Medicine</i> , <b>2021</b> , 85, 544-550	4.4	1
351	Real-time exercise stress cardiac MRI with Fourier-series reconstruction from golden-angle radial data. <b>2021</b> , 75, 89-99		3
350	Eigenmode analysis of the scattering matrix for the design of MRI transmit array coils. <i>Magnetic Resonance in Medicine</i> , <b>2021</b> , 85, 1727-1741	4.4	0
349	Radiofrequency coil for routine ultra-high-field imaging with an unobstructed visual field. <b>2021</b> , 34, e4457		4
348	Dual channel EPR excitation coil array for Overhauser-enhanced MRI. <b>2021</b> , 323, 106890		0
347	Nonrigid 3D motion estimation at high temporal resolution from prospectively undersampled k-space data using low-rank MR-MOTUS. <i>Magnetic Resonance in Medicine</i> , <b>2021</b> , 85, 2309-2326	4.4	5
346	The present and the future of microstructure MRI: From a paradigm shift to normal science. <b>2021</b> , 351, 108947		9
345	Towards accelerated quantitative sodium MRI at 7 T in the skeletal muscle: Comparison of anisotropic acquisition- and compressed sensing techniques. <b>2021</b> , 75, 72-88		1
344	15 Years MR-encephalography. <b>2021</b> , 34, 85-108		1
343	Mutual Inductance in Magnetic Resonance Two-Element Phased-Array Square Coils with Strip and Wire Conductors. <b>2021</b> , 52, 135-142		0
342	A 16-Channel Dense Array for In Vivo Animal Cortical MRI/fMRI on 7T Human Scanners. <b>2021</b> , 68, 1611-1618		2
341	Decoupling of Closely Spaced Dipole Antennas for Ultrahigh Field MRI With Metasurfaces. <b>2021</b> , 69, 1094-1106		5
340	Variable anisotropic FOV for 3D radial imaging with spiral phyllotaxis (VASP). <i>Magnetic Resonance in Medicine</i> , <b>2021</b> , 85, 68-77	4.4	2
339	Compressed sensing MRI using an interpolation-free nonlinear diffusion model. <i>Magnetic Resonance in Medicine</i> , <b>2021</b> , 85, 1681-1696	4.4	1
338	Impact of different phased-array coils on the quality of prostate magnetic resonance images. <b>2021</b> , 8, 100327		2
337	An 8-dipole transceive and 24-loop receive array for non-human primate head imaging at 10.5 T. <b>2021</b> , 34, e4472		2
336	Performance of a Flexible 12-Channel Head Coil in Comparison to Commercial 16- And 24-Channel Rigid Head Coils. <b>2021</b> ,		0

335	Adjustable acoustic field controlled by "ultrasonic projector" on ultrasound application. <b>2021</b> , PP,		0
334	Non-local means based Rician noise filtering for diffusion tensor and kurtosis imaging in human brain and spinal cord. <b>2021</b> , 21, 16		1
333	Physical and technical aspects of human magnetic resonance imaging: present status and 50 years historical review. <b>2021</b> , 6, 1885310		1
332	Multi-compartment analysis of the complex gradient-echo signal quantifies myelin breakdown in premanifest Huntington's disease. <b>2021</b> , 30, 102658		1
331	Integrated Multi-modal Antenna with coupled Radiating Structures (I-MARS) for 7T pTx body MRI. <b>2021</b> , PP,		0
330	Dual-Band Transceiver High Impedance Coil Array for Ultra-high Field Magnetic Resonance Imaging. <b>2021</b> , 1-1		
329	Elastomer coils for wearable MR detection. <i>Magnetic Resonance in Medicine</i> , <b>2021</b> , 85, 2882-2891	4.4	3
328	Electromagnetic simulation of a 16-channel head transceiver at 7 T using circuit-spatial optimization. <i>Magnetic Resonance in Medicine</i> , <b>2021</b> , 85, 3463-3478	4.4	0
327	Radio Frequency Coils for Hyperpolarized <sup>13</sup> C Magnetic Resonance Experiments with a 3T MR Clinical Scanner: Experience from a Cardiovascular Lab. <b>2021</b> , 10, 366		2
326	Application of Adaptive Image Receive Coil Technology for Whole-Brain Imaging. <b>2021</b> , 216, 552-559		3
325	Compressed sensing and the use of phased array coils in Na MRI: a comparison of a SENSE-based and an individually combined multi-channel reconstruction. <b>2021</b> , 31, 48-57		0
324	PCA denoising and Wiener deconvolution of P 3D CSI data to enhance effective SNR and improve point spread function. <i>Magnetic Resonance in Medicine</i> , <b>2021</b> , 85, 2992-3009	4.4	2
323	Simultaneous functional MRI of socially interacting marmosets.		2
322	A 48-Channel Receive Array Coil for Mesoscopic Diffusion-Weighted MRI of Human ex vivo Brain Imaging on the 3T Connectome Scanner.		
321	No need to detune transmitters in 32-channel receiver arrays at 7 T. <b>2021</b> , 34, e4491		1
320	Region-optimized virtual (ROVir) coils: Localization and/or suppression of spatial regions using sensor-domain beamforming. <i>Magnetic Resonance in Medicine</i> , <b>2021</b> , 86, 197-212	4.4	1
319	Standard MRI-based attenuation correction for PET/MRI phantoms: a novel concept using MRI-visible polymer. <b>2021</b> , 8, 18		3
318	Multi-compartment analysis of the complex gradient-echo signal quantifies myelin breakdown in premanifest Huntington's disease.		

317	Appendix A Antennas and Sensors for Medical Applications: A Representative Literature Review. <b>2021</b> , 547-583		
316	Calibration-Less Multi-Coil Compressed Sensing Magnetic Resonance Image Reconstruction Based on OSCAR Regularization. <b>2021</b> , 7,		2
315	Improved whole-brain SNR with an integrated high-permittivity material in a head array at 7T. <i>Magnetic Resonance in Medicine</i> , <b>2021</b> , 86, 1167-1174	4.4	3
314	An empirical investigation of the benefit of increasing the temporal resolution of task-evoked fMRI data with multi-band imaging. <b>2021</b> , 34, 667-676		1
313	A self-decoupled 32-channel receive array for human-brain MRI at 10.5 T. <i>Magnetic Resonance in Medicine</i> , <b>2021</b> , 86, 1759-1772	4.4	4
312	Ultraflexible Electrotextile Magnetic Resonance Imaging (MRI) Radio-Frequency Coils. <b>2021</b> , 11-41		
311	How the phased array coil elements placement influences the image quality in cardiac magnetic resonance. <b>2021</b> , 37, 553-561		
310	Free-breathing abdominal T mapping using an optimized MR fingerprinting sequence. <b>2021</b> , 34, e4531		0
309	Substantia nigra ferric overload and neuromelanin loss in Parkinson disease measured with 7T MRI.		1
308	Quasistatic Solutions versus Full-Wave Solutions of Single-Channel Circular RF Receive Coils on Phantoms of Varying Conductivities at 3 Tesla.. <b>2021</b> , 2021,		
307	Parallel nuclear magnetic resonance spectroscopy. <b>2021</b> , 1,		4
306	Focal fMRI signal enhancement with implantable inductively coupled detectors.		0
305	Acoustic Hole-Hologram for Ultrasonic Focusing With High Sensitivity. <b>2021</b> , 21, 8935-8942		1
304	A size-adaptive 32-channel array coil for awake infant neuroimaging at 3 Tesla MRI. <i>Magnetic Resonance in Medicine</i> , <b>2021</b> , 86, 1773-1785	4.4	2
303	Segmented simultaneous multi-slice diffusion-weighted imaging with navigated 3D rigid motion correction. <i>Magnetic Resonance in Medicine</i> , <b>2021</b> , 86, 1701-1717	4.4	3
302	Optimized 64-channel array configurations for accelerated simultaneous multislice acquisitions in 3T cardiac MRI. <i>Magnetic Resonance in Medicine</i> , <b>2021</b> , 86, 2276-2289	4.4	2
301	k-Space-based coil combination via geometric deep learning for reconstruction of non-Cartesian MRSI data. <i>Magnetic Resonance in Medicine</i> , <b>2021</b> , 86, 2353-2367	4.4	2
300	Improved nerve conspicuity with water-weighting and denoising in two-point Dixon magnetic resonance neurography. <b>2021</b> , 79, 103-111		1

299	Validation of Data Acquisition and Phase Estimation for Quantitative Susceptibility Mapping with a Rotating-Tube Phantom.		1
298	9.4 T double-tuned C/ H human head array using a combination of surface loops and dipole antennas. <b>2021</b> , 34, e4577		1
297	Coil Combination of Multichannel Single Voxel Magnetic Resonance Spectroscopy with Repeatedly Sampled In Vivo Data. <b>2021</b> , 26,		2
296	A 16-Channel C Array Coil for Magnetic Resonance Spectroscopy of the Breast at 7T. <b>2021</b> , 68, 2036-2046		0
295	Magnetic resonance imaging and MBI's disease-unavoidable alliance. <b>2021</b> , 63, 1749-1763		2
294	Functional quantitative susceptibility mapping (FQSM) of rat brain during flashing light stimulation. <b>2021</b> , 233, 117924		1
293	Metasurfaces for bioelectronics and healthcare. <b>2021</b> , 4, 382-391		19
292	Dipole-Fed Rectangular Dielectric Resonator Antennas for Magnetic Resonance Imaging at 7 T: The Impact of Quasi-Transverse Electric Modes on Transmit Field Distribution. <b>2021</b> , 9,		2
291	Multiplexing experiments in NMR and multi-nuclear MRI. <b>2021</b> , 124-125, 1-56		6
290	Displacement current distribution on a high dielectric constant helmet and its effect on RF field at 10.5 T (447 MHz). <i>Magnetic Resonance in Medicine</i> , <b>2021</b> , 86, 3292-3303	4.4	2
289	Optimized bias and signal inference in diffusion-weighted image analysis (OBSIDIAN). <i>Magnetic Resonance in Medicine</i> , <b>2021</b> , 86, 2716-2732	4.4	2
288	An asymmetrical whole-body birdcage RF coil without RF shield for hyperpolarized Xe lung MR imaging at 1.5 T. <i>Magnetic Resonance in Medicine</i> , <b>2021</b> , 86, 3373-3381	4.4	2
287	The Core of Medical Imaging: State of the Art and Perspectives on the Detectors. <b>2021</b> , 10, 1642		3
286	A Nested Eight-Channel Transmit Array With Open-Face Concept for Human Brain Imaging at 7 Tesla. <b>2021</b> , 9,		0
285	Recent Advances in Radio-Frequency Coil Technologies: Flexible, Wireless, and Integrated Coil Arrays. <b>2021</b> ,		1
284	Sodium Radiofrequency Coils for Magnetic Resonance: From Design to Applications. <b>2021</b> , 10, 1788		1
283	Design, Characterisation and Performance of an Improved Portable and Sustainable Low-Field MRI System. <b>2021</b> , 9,		0
282	Non-linear fitting with joint spatial regularization in arterial spin labeling. <b>2021</b> , 71, 102067		1



- 281 Seeking a Widely Adoptable Practical Standard to Estimate Signal-to-Noise Ratio in Magnetic Resonance Imaging for Multiple-Coil Reconstructions. **2021**, 54, 1952-1964 0
- 280 Network and Field Analysis of Koch Snowflake Fractal Geometry Radiofrequency Coils for Sodium MRI. **2021**, 9, 0
- 279 Receiver phase alignment using fitted SVD derived sensitivities from routine prescans. **2021**, 16, e0256700 0
- 278 Stretchable self-tuning MRI receive coils based on liquid metal technology (LiquiTune). **2021**, 11, 16228 1
- 277 Vacuum Formed Coils for Magnetic Resonance Imaging. **2021**, 0
- 276 High-fidelity, high-spatial-resolution diffusion MRI of the ex-vivo whole human brain on the 3T Connectom scanner using structured low-rank EPI ghost correction. 0
- 275 High-resolution fMRI at 7 Tesla: challenges, promises and recent developments for individual-focused fMRI studies. **2021**, 40, 96-104 4
- 274 A line through the brain: implementation of human line-scanning at 7T for ultra-high spatiotemporal resolution fMRI. **2021**, 271678X211037266 3
- 273 Diagnostic Value of Magnetic Resonance Imaging in Evaluating Carotid Artery Atherosclerotic Plaque Morphology. 0
- 272 Improved susceptibility weighted imaging at ultra-high field using bipolar multi-echo acquisition and optimized image processing: CLEAR-SWI. **2021**, 237, 118175 6
- 271 Electromagnetic Modeling of High-Channel Count Head Receiver Arrays for ultra-High Field MRI. **2021**, 0
- 270 A Novel Energy Harvesting Circuit for RF Surface Coils in the MRI System. **2021**, 15, 791-801 0
- 269 Results of the 2020 fastMRI Challenge for Machine Learning MR Image Reconstruction. **2021**, 40, 2306-2317 25
- 268 An endovaginal MRI array with a forward-looking coil for advanced gynecological cancer brachytherapy procedures: Design and initial results. **2021**, 48, 7283-7298 0
- 267 A 48-channel receive array coil for mesoscopic diffusion-weighted MRI of ex vivo human brain on the 3 T connectome scanner. **2021**, 238, 118256 5
- 266 Fast data-driven learning of parallel MRI sampling patterns for large scale problems. **2021**, 11, 19312 3
- 265 Integration of a radiofrequency coil and commercial field camera for ultra-high-field MRI. 0
- 264 Responsive Nanoparticles to Enable a Focused Ultrasound-Stimulated Magnetic Resonance Imaging Spotlight. **2021**, 15, 14618-14630 0

263	A radially interleaved sodium and proton coil array for brain MRI at 7 T. <b>2021</b> , 34, e4608	0
262	Bayesian inference using hierarchical and spatial priors for intravoxel incoherent motion MR imaging in the brain: Analysis of cancer and acute stroke. <b>2021</b> , 73, 102144	2
261	FreeSurfer based cortical mapping and T1-relaxometry with MPnRAGE: Test-retest reliability with and without retrospective motion correction. <b>2021</b> , 242, 118447	2
260	Improving image quality in transcranial magnetic resonance guided focused ultrasound using a conductive screen. <b>2021</b> , 83, 41-49	1
259	Advances in resting state fMRI acquisitions for functional connectomics. <b>2021</b> , 243, 118503	7
258	Medical Imaging Technologies and Imaging Considerations for 3D Printed Anatomic Models. <b>2022</b> , 11-29	1
257	Simultaneous Head and Spine MR Imaging in Children Using a Dedicated Multichannel Receiver System at 3T. <b>2021</b> , 68, 3659-3670	1
256	Effect of radiofrequency shield diameter on signal-to-noise ratio at ultra-high field MRI. <i>Magnetic Resonance in Medicine</i> , <b>2021</b> , 85, 3522-3530	4.4 1
255	MR Imaging in the 21st Century: Technical Innovation over the First Two Decades. <b>2021</b> ,	0
254	Flexible Self-Resonant Detector Coil for Magnetic Resonance Imaging of Carbon-13. <b>2021</b> ,	0
253	. <b>2021</b> , 2, 249-258	
252	A Bayesian Deep CNN Framework for Reconstructing k-t-Undersampled Resting-fMRI. <b>2021</b> ,	
251	Custom, spray coated receive coils for magnetic resonance imaging. <b>2021</b> , 11, 2635	2
250	Dictionary+Wavelet Model With Nested-Minorized VB-EM for SMS-CAIPI R-fMRI Reconstruction. <b>2021</b> , 2, 383-395	
249	Processing Concepts and SWI Filtered Phase Images. 89-101	2
248	Brain Anatomy with Phase. 121-136	2
247	Ultra High Field Magnetic Resonance Imaging: A Historical Perspective. <b>2006</b> , 1-17	7
246	Ultra High Field MRI: High-Frequency Coils. <b>2006</b> , 127-161	7

245	Magnetic Resonance Neurography. <b>2009</b> , 27-39	4
244	MRI Hardware, Signal-to-Noise Ratio, and Safety. <b>2000</b> , 125-157	1
243	Spinal Cord Infarction and Differential Diagnosis. <b>2015</b> , 1-64	1
242	NMR Methods in Studies of Brain Ischemia. <b>1992</b> , 135-158	1
241	Field Strength Dependence of Contrast and Noise in fMRI. <b>2015</b> , 793-818	1
240	New Imaging Techniques for Bone. <b>2010</b> , 51-76	1
239	fMRI of Emotion. <b>2009</b> , 411-456	6
238	Motion Aware MR Imaging via Spatial Core Correspondence. <b>2018</b> , 198-205	4
237	Implementation and Acquisition Protocols. <b>2019</b> , 3-19	1
236	Accurate Pathology Segmentation in FLAIR MRI for Robust Shape Characterization. <b>2014</b> , 187-227	2
235	A Joint Acquisition-Estimation Framework for MR Phase Imaging. <b>2015</b> , 24, 45-56	1
234	New Advances in MRI. <b>2004</b> , 1-9	2
233	Basic Reconstruction Algorithms for Parallel Imaging. <b>2007</b> , 19-36	5
232	The g-Factor and Coil Design. <b>2007</b> , 37-48	6
231	Measurement of Signal-to-Noise Ratio and Parallel Imaging. <b>2007</b> , 49-61	13
230	New Coil Systems for Highly Parallel MR Acquisition Strategies. <b>2007</b> , 497-510	2
229	Reconstruction of phase images for GRAPPA accelerated Magnetic Resonance Imaging. <b>2009</b> , 803-806	7
228	Bias of least squares approaches for diffusion tensor estimation from array coils in DT-MRI. <b>2009</b> , 12, 919-26	4

227	Probabilistic 4D blood flow mapping. <b>2010</b> , 13, 416-23	9
226	MRI Methods for In-Vivo Cortical Parcellation. <b>2013</b> , 197-220	1
225	Retrospective estimation of the susceptibility driven field map for distortion correction in echo planar imaging. <b>2013</b> , 23, 352-63	2
224	MRI and Its Hardware. <b>1996</b> , 1-43	0
223	MRI Methods for In-Vivo Cortical Parcellation. <b>2013</b> , 197-220	3
222	COMMON IMAGE RECONSTRUCTION TECHNIQUES. <b>2004</b> , 491-571	1
221	SMASH IMAGING. <b>1999</b> , 7, 237-254	83
220	TECHNICAL CONSIDERATIONS FOR MAGNETIC RESONANCE IMAGING OF THE ANKLE AND FOOT. <b>1994</b> , 2, 23-28	6
219	HIGH-RESOLUTION IMAGING OF THE BRAIN. <b>1998</b> , 6, 139-154	8
218	TECHNIQUES FOR MR IMAGING OF JOINTS IN SPORTS MEDICINE. <b>1999</b> , 7, 1-21	9
217	Analytical estimation of ultrasound properties, thermal diffusivity, and perfusion using magnetic resonance-guided focused ultrasound temperature data. <b>2016</b> , 61, 923-36	7
216	Rapid development of application-specific flexible MRI receive coils. <b>2020</b> , 65, 19NT01	5
215	Magnetic resonance imaging of the female pelvis. New circularly polarized body array coil versus standard body coil. <b>1997</b> , 32, 1-6	6
214	Ultra high resolution imaging of the human head at 8 tesla: 2K x 2K for Y2K. <b>2000</b> , 24, 2-8	77
213	Radiofrequency Coils for 7 Tesla MRI. <b>2019</b> , 28, 145-158	8
212	Towards HCP-Style Macaque Connectomes: 24-Channel 3T Multi-Array Coil, MRI Sequences and Preprocessing.	2
211	High resolution nonlinear registration with simultaneous modelling of intensities.	3
210	Clinical Neuroimaging Using 7 T MRI: Challenges and Prospects. <b>2018</b> , 28, 5-13	19

209	Online MR image reconstruction for compressed sensing acquisition in T2* imaging. <b>2019</b> ,	1
208	Frequency optimization of permeability metamaterial for enhanced resolution. <b>2019</b> , 58, 3200-3208	1
207	Enlargement of the field of view and maintenance of a high signal-to-noise ratio using a two-element high-Tc superconducting array in a 3T MRI. <b>2012</b> , 7, e42509	2
206	Modelling temporal stability of EPI time series using magnitude images acquired with multi-channel receiver coils. <b>2012</b> , 7, e52075	9
205	Boosting BOLD fMRI by K-space density weighted echo planar imaging. <b>2013</b> , 8, e74501	3
204	Quantitative study of liver magnetic resonance spectroscopy quality at 3T using body and phased array coils with physical analysis and clinical evaluation. <b>2015</b> , 10, e0122999	4
203	A Specialized Multi-Transmit Head Coil for High Resolution fMRI of the Human Visual Cortex at 7T. <b>2016</b> , 11, e0165418	17
202	Low-Noise Active Decoupling Circuit and its Application to C Cryogenic RF Coils at 3 T. <b>2017</b> , 3, 60-66	10
201	Body coil reference for inverse reconstructions of multi-coil data-the case for real-time MRI. <b>2019</b> , 9, 1815-1819	2
200	Artifacts by Misalignment of Cardiac Magnetic Resonance Phased-array Coil Elements: From Simulation to In vivo Test. <b>2019</b> , 15, 301-307	1
199	Ocular MR imaging: evaluation of different coil setups in a phantom study. <b>2013</b> , 12, 177-82	1
198	Performance assessment of phased-array coil in breast MR imaging. <b>2004</b> , 3, 39-43	3
197	Advances in coronary MRA from vessel wall to whole heart imaging. <b>2007</b> , 6, 157-70	21
196	Parallel imaging performance investigation of an 8-channel common-mode differential-mode (CMDM) planar array for 7T MRI. <b>2014</b> , 4, 33-42	4
195	Parallel Excitation in Ultrahigh Field Human MR Imaging and Multi-Channel Transmit System. <b>2012</b> , 1, e110	6
194	A 4-channel 3 Tesla phased array receive coil for awake rhesus monkey fMRI and diffusion MRI experiments. <b>2010</b> , 3, 1085-1092	14
193	The history of magnetic resonance imaging and its reflections in. <b>2021</b> , 62, 1481-1498	2
192	Correlated noise in brain magnetic resonance elastography. <i>Magnetic Resonance in Medicine</i> , <b>2021</b> ,	4.4 0

- 191 Residual quadrupolar couplings observed in 7 Tesla deuterium MR spectra of skeletal muscle. *Magnetic Resonance in Medicine*, **2021**, 4.4 ○
- 190 Design and construction of an interchangeable RF coil system for rodent spinal cord MR imaging at 9.4 T. **2021**, 84, 124-131
- 189 MRI Instrumentation: Magnets, Gradient Coils, and Radiofrequency Coils. **2000**, 151-172
- 188 Infectious Diseases of the Spine and Spinal Cord. **2001**, 467-480
- 187 Parallele Bildgebung. **2002**, 203-205
- 186 Anatomical Studies in the Rodent Brain and Spinal Cord. **2002**, 232-256
- 185 [Examination of measurement and its method of compensation of the sensitivity distribution using phased array coil for body scan]. **2003**, 59, 1164-73 ○
- 184 The Past, Present And Future Of Magnetic Resonance Imaging. **2003**, 283-294 1
- 183 Real-time CMR and parallel imaging. **2004**, 73-87
- 182 Die Magnetresonanztomografie und ihre Hardware. **2004**, 9-57
- 181 Magnetic Resonance Imaging.
- 180 Magnetic Resonance Imaging. **2006**, 12-1-12-39
- 179 Parallel-Excitation Techniques for Ultra-High-Field MRI. **2007**, 511-521 1
- 178 Development Status of MRI and Other Medical Imaging Apparatuses. **2007**, 110, 11-14 ○
- 177 Imaging of Epidural Spinal Cord Compression. **2008**, 537-558
- 176 TECHNICAL CONSIDERATIONS FOR CLINICAL MRI OF ARTHRITIS. **2009**, 1-22
- 175 Introduction to Functional MRI Hardware. **2009**, 31-67
- 174 MRI of the Gastrointestinal Tract: Coils, Sequences, Techniques. **2010**, 1-19

- 173 Parallel Magnetic Resonance Imaging Acquisition and Reconstruction: Application to Functional and Spectroscopic Imaging in Human Brain. **2011**, 245-262
- 172 Scanner components. **2011**, 771, 69-88
- 171 Low-Dose Contrast-Enhanced MR Angiography. **2012**, 107-112
- 170 Parallel Imaging in Angiography. **2012**, 185-198
- 169 Hardware Requirements for In Vivo Nuclear Magnetic Resonance Studies of Neural Metabolism. **2012**, 33-64
- 168 [Symposium 3: Basic technology to support the development of magnetic resonance imaging "creating new technologies based on study of the past"]. **2012**, 68, 1025-37
- 167 Magnetic Resonance Technology. **2012**, 131-179
- 166 Development of NMR: Magnetic Resonance Imaging During the Past Two Decades.
- 165 Magnetic Resonance Imaging. **2012**, 1-38
- 164 Inhomogeneous noise correction combined with uniform filter and sensitivity map (INCUS) for multi-coil imaging including parallel imaging. **2013**, 12, 21-30
- 163 Small-Animal MRI Instrumentation. **2014**, 211-240
- 162 Noise Modelling in Parallel Magnetic Resonance Imaging: A Variational Approach. **2014**, 121-128
- 161 Magnetic Resonance Imaging of the Hip with Emphasis on Avascular Necrosis. **1991**, 17, 669-692
- 160 Localization Methods for Cardiovascular Magnetic Resonance Spectroscopy. **1993**, 45-62
- 159 MAGNETIC RESONANCE ANGIOGRAPHY OF THE BODY. **1993**, 1, 203-215
- 158 MAGNETIC RESONANCE IMAGING TECHNIQUES IN THE PELVIS. **1994**, 2, 161-188
- 157 MAGNETIC RESONANCE IMAGING OF THE OVARY. **1994**, 2, 245-274
- 156 Fortschritte bei der kernspintomographischen Darstellung des N. opticus. **1995**, 244-246

- 155 MR IMAGING OF THE ELBOW: Technical Considerations. **1997**, 5, 439-442 4
- 154 Wavelet Modelling of Clinical Magnetic Resonance Tomography: An Ensemble Quantum Computing Approach. **1998**, 129-176
- 153 MRI and its Hardware. **1999**, 9-54
- 152 Antennas in MRI Systems. **2015**, 1-59
- 151 Analytic quantification of bias and variance of coil sensitivity profile estimators for improved image reconstruction in MRI. **2015**, 9350, 684-691 2
- 150 Concept and Applications of Receiving Mutual Impedance. **2015**, 1-41
- 149 Concept and Applications of Receiving Mutual Impedance. **2015**, 1-41
- 148 MRI System. **2016**, 9-24
- 147 The Application of In Vivo MRI and MRS in Phenomic Studies of Murine Models of Disease. **2017**, 1-44
- 146 Standard 3.0 T MR Imaging. **2017**, 27-46
- 145 Homemade array of surface coils implementation for small animal magnetic resonance imaging. **2017**, 2, 532-539
- 144 Magnetresonanztomographie und -spektroskopie. **2018**, 205-283
- 143 Analysis of physiological noise in quantitative cardiac magnetic resonance.
- 142 The advantages of radial trajectories for vessel-selective dynamic angiography with arterial spin labeling.
- 141 On the Choice of Coil Combination Weights for Phase-Sensitive GRAPPA Reconstruction in Multichannel SWI. **2020**, 109-118
- 140 An 8 Dipole Transceive and 24 Loop Receive Array for Non-Human Primate Head Imaging at 10.5T. 1
- 139 Fast Fiber Orientation Estimation in Diffusion MRI from k<sub>q</sub>-Space Sampling and Anatomical Priors. **2021**, 7,
- 138 Recommendations of Choice of Head Coil and Prescan Normalize Filter Depend on Region of Interest and Task. **2021**, 15, 735290 1



- 137 Design of a dedicated circular coil for Magnetic Resonance Spectroscopy studies in small phantoms and animal acquisition with a 3 Tesla Magnetic Resonance clinical scanner. **2020**, 26, 269-276
- 136 Basics of Magnetic Resonance Imaging. **2020**, 95-121
- 135 A Review on the RF Coil Designs and Trends for Ultra High Field Magnetic Resonance Imaging. **2020**, 24, 95 5
- 134 Enhanced Low Frequency MRI using Flexible Shape Arrays Made of Standard Wire. **2020**,
- 133 Multi-centre, multi-vendor reproducibility of 7T QSM and R2\* in the human brain: results from the UK7T study.
- 132 Temporal SNR optimization through RF coil combination in fMRI: The more, the better?. **2021**, 16, e0259592
- 131 Design of a 7 T Spiral Resonator-Based Filter for MRI Planar Array Coupling Reduction. **2020**,
- 130 Recent Developments and Prospects in High-Field MR. **2006**, 117-132
- 129 High-Resolution and Microscopic Imaging at High Field. **2006**, 343-371 2
- 128 Hardware Considerations in Ultra High Field MRI. **2006**, 45-57 1
- 127 Design of Dedicated MRI Systems for Parallel Imaging. **2007**, 155-159
- 126 Special Applications of Parallel Imaging. **2007**, 63-70
- 125 Improving the imaging performance of the 1.5 T MR-linac using a flexible, 32-channel, on-body receive array. **2020**, 65, 215008 0
- 124 Investigation of multichannel phased array performance for fetal MR imaging on 1.5T clinical MR system. **2011**, 1, 24-30 12
- 123 Precompensation for mutual coupling between array elements in parallel excitation. **2011**, 1, 4-10 10
- 122 Improving multi-channel compressed sensing MRI with reweighted l 1 minimization. **2014**, 4, 19-23 4
- 121 Quadrature transmit array design using single-feed circularly polarized patch antenna for parallel transmission in MR imaging. **2014**, 4, 11-8 2
- 120 Design and numerical evaluation of a volume coil array for parallel MR imaging at ultrahigh fields. **2014**, 4, 50-6 6

119	Magnetic wall decoupling method for monopole coil array in ultrahigh field MRI: a feasibility test. <b>2014</b> , 4, 79-86	17
118	Error decomposition for parallel imaging reconstruction using modulation-domain representation of undersampled data. <b>2014</b> , 4, 93-105	1
117	Sparse parallel transmission on randomly perturbed spiral k-space trajectory. <b>2014</b> , 4, 106-11	2
116	(1)H-MR imaging of the lungs at 3.0 T. <b>2016</b> , 6, 67-75	1
115	Fast Chemical Exchange Saturation Transfer (CEST) Imaging with Variably-accelerated Sensitivity Encoding (vSENSE). <b>2016</b> , 24, 1522	1
114	Brain Iron Distribution after Multiple Doses of Ultra-small Superparamagnetic Iron Oxide Particles in Rats. <b>2018</b> , 68, 139-147	6
113	High-sensitivity coil array for head and neck imaging: technical note. <b>2001</b> , 22, 1881-6	11
112	In vivo <sup>1</sup> H MR spectroscopy of human head and neck lymph node metastasis and comparison with oxygen tension measurements. <b>2000</b> , 21, 183-93	53
111	Field, coil, and echo-time influence on sensitivity and reproducibility of brain proton MR spectroscopy. <b>2006</b> , 27, 684-8	29
110	A dedicated 3-ch breast coil for Microwave Tomography at 3T. <b>2021</b> , 29,	
109	Comparison of Phase Estimation Methods for Quantitative Susceptibility Mapping Using a Rotating-Tube Phantom. <b>2021</b> , 2021, 1898461	1
108	Simultaneous functional MRI of two awake marmosets. <b>2021</b> , 12, 6608	4
107	Improvement of magnetic resonance imaging using a wireless radiofrequency resonator array. <b>2021</b> , 11, 23034	1
106	Combined acquisition of diffusion and T*-weighted measurements using simultaneous multi-contrast magnetic resonance imaging. <b>2021</b> , 1	0
105	Sustainable low-field cardiovascular magnetic resonance in changing healthcare systems.. <b>2022</b> ,	0
104	Integration of Hyperpolarized <sup>13</sup> C MRI into Liver Studies. <b>2021</b> , 3, 257-272	
103	HP acquisition methods: pulse sequences, reconstruction, and RF coils. <b>2021</b> , 3, 49-74	
102	Focal fMRI signal enhancement with implantable inductively coupled detectors.. <b>2021</b> , 247, 118793	0

101	Advances in Fast Vessel-Wall Magnetic Resonance Imaging Using High-Density Coil Arrays. <b>2021</b> , 25, 229		
100	Denoising diffusion weighted imaging data using convolutional neural networks.		
99	Numerical Comparison of Local Transceiver Arrays of Fractionated Dipoles and Microstrip Antennas for Body Imaging at 7 T.. <b>2022</b> , e4722		
98	Basic Principles of and Practical Guide to Clinical MRI Radiofrequency Coils.. <b>2022</b> , 210110		1
97	Invited Commentary: MRI Radiofrequency Coils-Current Uses and Future Innovation.. <b>2022</b> , 210214		
96	Deep MRI reconstruction with radial subsampling. <b>2022</b> ,		1
95	Improving local SNR of a single-channel 54.6 mT MRI system using additional LC-resonator.. <b>2022</b> , 339, 107215		
94	A comparison of two data analysis approaches for quantitative magnetic resonance imaging. <b>2022</b> , 33, 075401		1
93	Impact of adaptive image receive coil technology for liver MR imaging at 3.0 Tesla: Intraindividual comparison with use of conventional coil.. <b>2022</b> , 150, 110271		0
92	Integration of an RF coil and commercial field camera for ultrahigh-field MRI.. <i>Magnetic Resonance in Medicine</i> , <b>2021</b> ,	4.4	0
91	Twenty-four-channel high-impedance glove array for hand and wrist MRI at 3T.. <i>Magnetic Resonance in Medicine</i> , <b>2021</b> ,	4.4	1
90	Compressed Sensing in Sodium Magnetic Resonance Imaging: Techniques, Applications, and Future Prospects.. <b>2021</b> ,		0
89	Customized radiofrequency phased-array coil combining transmit-only, receive-only, and transmit/receive coils for magnetic resonance imaging of visual cortex at 7 Tesla. <b>2022</b> , 1-1		
88	High-Density MRI RF Arrays Using Mixed Dipole Antennas and Microstrip Transmission Line Resonators.. <b>2022</b> , PP,		
87	Pulse sequences and protocol design. 19-33		
86	Accelerated MRI at 9.4 T with electronically modulated time-varying receive sensitivities.. <i>Magnetic Resonance in Medicine</i> , <b>2022</b> ,	4.4	
85	Portable Brain Scanner Technology for Use in Emergency Medicine. <b>2022</b> , 49-74		
84	A mask-compatible, radiolucent, 8-channel head and neck receive array for MRI-guided radiotherapy treatments and pre-treatment simulation.. <b>2022</b> ,		

- 83 Electromagnetic induction tomography. **2022**, 77-125
- 82 Score-based diffusion models for accelerated MRI. **2022**, 102479 4
- 81 H Metabolic Mapping of the Brain at 7T using a 2D FID-EPSI Readout with Lipid Suppression.. **2022**, e4771
- 80 Double-Row Dipole/Loop Combined Array for Human Whole Brain Imaging at 7 T.. **2022**, e4773
- 79 A patient-friendly 16-channel transmit/64-channel receive coil array for combined head&neck MRI at 7 Tesla. *Magnetic Resonance in Medicine*, 4.4 0
- 78 MRI-compatible electromagnetic servomotor for image-guided medical robotics. **2022**, 1, 0
- 77 High-permittivity pads to enhance SNR and transmit efficiency in MRI of the heart at 7T: a simulation study. 0
- 76 RF coil design for accurate parallel imaging on  $^{13}\text{C}$  MRSI using  $^{23}\text{Na}$  sensitivity profiles. *Magnetic Resonance in Medicine*, 4.4 0
- 75 A Practical Guide to Estimating Coil Inductance for Magnetic Resonance Applications. **2022**, 11, 1974
- 74 Iterative static field map estimation for off-resonance correction in non-Cartesian susceptibility weighted imaging. *Magnetic Resonance in Medicine*, 4.4 1
- 73 Real-time MRI motion estimation through an unsupervised k-space-driven deformable registration network (KS-RegNet).
- 72 A 32-element loop/dipole hybrid array for human head imaging at 7 T. *Magnetic Resonance in Medicine*, 4.4 0
- 71 Analysis of coil element distribution and dimension for matrix gradient coils.
- 70 Shaping and Focusing Magnetic Field in the Human Body: State-of-the Art and Promising Technologies. **2022**, 22, 5132 0
- 69 An optimized quadrature RF receive coil for very-low-field (50.4 mT) magnetic resonance brain imaging. **2022**, 107269
- 68 MAGNETIC RESONANCE STAGING OF NEOPLASMS OF THE UTERUS. **1994**, 32, 109-131 1
- 67 Learned Compression of High Dimensional Image Datasets. **2022**,
- 66 Segmented Coil Design Powering the Next Generation of High-efficiency Robust Micro-implants.

- 65 Evaluation of a novel 8-channel RX coil for speech production MRI at 0.55 T.
- 64 A New Phased-Array Magnetic Resonance Imaging Receive-Only Coil for HBO2 Studies. **2022**, 22, 6076
- 63 Dual-Domain Reconstruction Network with V-Net and K-Net for Fast MRI. ○
- 62 Low-cost Inductively Coupled Stacked Wireless RF Coil for MRI at 3T.
- 61 Sample-centred shimming enables independent parallel NMR detection. **2022**, 12, ○
- 60 Computer tomography and magnetic resonance for multimodal imaging of fossils and mummies. **2022**, 94, 7-17 ○
- 59 Spatial Decoding. **2020**, 77-95 ○
- 58 Introduction. **2020**, 1-16 ○
- 57 Analysis of a Flexible Dual-Channel Octagonal Coil System for UHF MRI. **2022**, 1-1 ○
- 56 Adversarial Robustness of MR Image Reconstruction Under Realistic Perturbations. **2022**, 24-33 ○
- 55 Learning Optimal K-space Acquisition and Reconstruction using Physics-Informed Neural Networks. **2022**, ○
- 54 A uniformity correction method to reduce scan time for 7T sodium imaging of brain tumors. ○
- 53 Denoising diffusion weighted imaging data using convolutional neural networks. **2022**, 17, e0274396 ○
- 52 A 5-channel local B<sub>0</sub> shimming coil combined with a 3-channel RF receiver coil for rat brain imaging at 3 T. ○
- 51 Enhanced clinical task-based fMRI metrics through locally low-rank denoising of complex-valued data. 197140092211221 ○
- 50 A flexible MRI coil based on a cable conductor and applied to knee imaging. **2022**, 12, ○
- 49 Design and Construction of an 8-channel transceiver coil array for Rat imaging at 9.4T. **2022**, 107302 ○
- 48 MR Current Density and MREIT Data Acquisition. **2022**, 111-134 ○

47	A radiofrequency coil for infants and toddlers.	0
46	Iterative training of robust k-space interpolation networks for improved image reconstruction with limited scan specific training samples.	0
45	Trade-off between preamplifier noise figure and decoupling in MRI detectors.	1
44	HumanBrainAtlas: an in vivo MRI dataset for detailed segmentations.	0
43	Time-encoded pseudo-continuous arterial spin labeling: Increasing SNR in ASL dynamic angiography.	0
42	A cryogenic 14-channel $^{13}\text{C}$ receiver array for 3T human head imaging.	1
41	Challenges regarding MR compatibility of an MRgFUS robotic system. <b>2022</b> , 344, 107317	0
40	Hairpin RF resonators for MR imaging transceiver arrays with high inter-channel isolation and B1 efficiency at ultrahigh field 7 T. <b>2022</b> , 345, 107321	0
39	Virtual coil augmentation for MR coil extrapolation via deep learning. <b>2023</b> , 95, 1-11	0
38	A radiofrequency coil to facilitate task-based fMRI of awake marmosets. <b>2023</b> , 383, 109737	0
37	k-Space navigators. <b>2023</b> , 209-224	0
36	Optical link as an alternative for MRI receive coils: toward a passive approach. <b>2022</b> , 1-7	0
35	Motion-Corrected Reconstruction. <b>2022</b> , 355-389	0
34	Quantitative Susceptibility-Mapping Reconstruction. <b>2022</b> , 441-467	0
33	Parallel Imaging. <b>2022</b> , 129-157	0
32	Joint K-space and Image-space Parallel Imaging ( KIPI ) for accelerated chemical exchange saturation transfer acquisition.	0
31	Free-breathing 2D radial cine MRI with respiratory auto-calibrated motion correction ( RAMCO ).	0
30	In vivo $^{31}\text{P}$ MRSI of the whole human liver at 7 Tesla using a $^{31}\text{P}$ whole-body transmit coil and 16-channel receive array - Repeatability and effects of PCA-based denoising.	0

- 29 Free-Breathing Liver Fat, R\*2 and B 0 Field Mapping Using Multi-Echo Radial FLASH and Regularized Model-based Reconstruction. **2022**, 1-1 ○
- 28 Design of a folded, double-tuned loop coil for 1H/X-nuclei MRI applications. **2022**, 1-1 ○
- 27 Ultra-high field MRI: parallel-transmit arrays and RF pulse design. ○
- 26 A feasibility study of wireless inductively coupled surface coil for MR-guided high-intensity focused ultrasound ablation of rodents on clinical MRI systems. **2022**, 12, ○
- 25 Vacuum formed coils for MRI. ○
- 24 Technical note: Multi-receiver combination method for phase-based electrical property tomography of the breast. ○
- 23 Simultaneous proton resonance frequency T 1 - MR shear wave elastography for MR-guided focused ultrasound multiparametric treatment monitoring. ○
- 22 Caterpillar traps: A highly flexible, distributed system of toroidal cable traps. ○
- 21 Pulse Sequences and Reconstruction in Fast MR Imaging of the Liver. **2023**, ○
- 20 8-channel Tx dipole and 20-channel Rx loop coil array for MRI of the cervical spinal cord at 7 Tesla. ○
- 19 Odd-Leg Birdcages for Geometric Decoupling in Multinuclear Imaging and Spectroscopy. **2023**, 2023, 1-10 ○
- 18 Age-related differences of cerebellar cortex and nuclei: MRI findings in healthy controls and its application to spinocerebellar ataxia (SCA6) patients. **2023**, 270, 119950 ○
- 17 A radiofrequency coil for infants and toddlers. ○
- 16 Advanced Radio Frequency Applicators for Thermal Magnetic Resonance Theranostics of Brain Tumors. **2023**, 15, 2303 ○
- 15 Deuterium body array for the simultaneous measurement of hepatic and renal glucose metabolism and gastric emptying with dynamic 3D deuterium metabolic imaging at 7 T. ○
- 14 Evaluation of multi-channel phase reconstruction methods for quantitative susceptibility mapping on postmortem human brain. **2023**, 14-15, 100097 ○
- 13 Segmented solenoid RF coils for MRI of ex vivo brain samples at ultra-high field preclinical and clinical scanners. **2023**, 16-17, 100103 ○
- 12 Optimization in the space domain for density compensation with the nonuniform FFT. **2023**, 100, 102-111 ○

- 11 A Surface RF Coil with a Configurable Field of View for  $^{23}\text{Na}$  MR Spectroscopy at 0.5T. **2022**, ○
- 10 An RF coil design to enable quintuple nuclear whole-brain MRI. **2023**, 89, 2131-2141 ○
- 9 Improving Specific Absorption Rate Efficiency and Coil Robustness of Self-Decoupled Transmit/Receive Coils by Elevating Feed and Mode Conductors. **2023**, 23, 1800 ○
- 8 A flexible 8.5 MHz litz wire receive array for field-cycling imaging. **2023**, 68, 055016 ○
- 7 Multiple slot modules for high field magnetic resonance imaging array coils. **2023**, 89, 2485-2498 ○
- 6 Accelerated SPIRiT Parallel MR Image Reconstruction Based on Joint Sparsity and Sparsifying Transform Learning. **2023**, 9, 276-288 ○
- 5 Efficient PCA denoising of spatially correlated MRI data. ○
- 4 Manipulating Bandwidth of Cryogenically Cooled Receive-Only MRI Detectors. **2023**, 7, 1-3 ○
- 3 Parallel imaging reconstruction using spatial nulling maps. ○
- 2 Multi-feed, loop-dipole combined dielectric resonator antenna arrays for human brain MRI at 7 T. ○
- 1 Iron imaging in neuroinflammation. **2023**, 51-78 ○