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^1H NMR chemical shift selective (CHESS) imaging

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#	Paper	IF	Citations
916	Determination of fat and water contents in human from "SAT"-MRI sequences using automatic image segmentation.		
915	Multiple chemical-shift-selective NMR imaging using stimulated echoes. 1985 , 64, 94-102		10
914	Chemical-shift-selective magnetic-resonance imaging of avascular necrosis of the femoral head. 1985 , 1, 370-1		11
913	High-resolution human in vivo spectroscopic imaging using echo-time encoding technique. <i>Magnetic Resonance in Medicine</i> , 1986 , 3, 448-53	4.4	25
912	Double pulse echoes--a novel approach for fat-water separation in magnetic resonance imaging. <i>Magnetic Resonance in Medicine</i> , 1986 , 3, 639-43	4.4	15
911	Chemical-shift-selective magnetic resonance imaging of multiple-line spectra by selective saturation. 1986 , 66, 194-196		
910	Back projection reconstruction of spectroscopic NMR images from incomplete sets of projections. 1986 , 69, 168-175		2
909	Resolution of NMR chemical shift images into real and imaginary components. <i>Physics in Medicine and Biology</i> , 1986 , 31, 713-720	3.8	6
908	Chemical shift imaging: a review. 1986 , 146, 971-80		72
907	Improving MR image quality in the presence of motion by using rephasing gradients. 1987 , 148, 1251-8		187
906	Rapid FLASH NMR imaging. 1987 , 74, 415-22		14
905	STIR sequences in NMR imaging of the optic nerve. 1987 , 29, 238-45		68
904	SYS-FLASH. Systemic saturation in FLASH MR imaging. <i>Magnetic Resonance in Medicine</i> , 1987 , 4, 302-5	4.4	5
903	Gradient reversal technique and its applications to chemical-shift-related NMR imaging. <i>Magnetic Resonance in Medicine</i> , 1987 , 4, 526-36	4.4	40
902	Thin-slice, chemical-shift imaging of oil and water in sandstone rock at 80 MHz. 1987 , 74, 139-146		3
901	Slice selection in the presence of chemically shifted species. 1987 , 71, 180-186		1
900	Spectroscopic FLASH NMR imaging (SPLASH imaging). 1987 , 71, 550-553		2

899	Fat suppression in the time domain in fast MR imaging. <i>Magnetic Resonance in Medicine</i> , 1988 , 8, 345-54	4.4	12
898	A comparison of selective saturation and selective echo chemical shift imaging techniques. 1988 , 6, 421-30		17
897	NMR imaging in theory and in practice. <i>Physics in Medicine and Biology</i> , 1988 , 33, 635-70	3.8	13
896	.		
895	Implementation of mixed bandwidth MRI pulse sequences using a single analog lowpass filter. 1989 , 7, 487-93		6
894	Localized high-resolution proton NMR spectroscopy using stimulated echoes: initial applications to human brain in vivo. <i>Magnetic Resonance in Medicine</i> , 1989 , 9, 79-93	4.4	646
893	Hybrid methods of chemical-shift imaging. <i>Magnetic Resonance in Medicine</i> , 1989 , 9, 379-88	4.4	35
892	High field localized proton spectroscopy in small volumes: greatly improved localization and shimming using shielded strong gradients. <i>Magnetic Resonance in Medicine</i> , 1989 , 10, 256-65	4.4	57
891	Comparison of single-shot localization methods (STEAM and PRESS) for in vivo proton NMR spectroscopy. 1989 , 2, 201-8		173
890	¹⁹ F chemical shift imaging in perfluorocarbons. 1989 , 2, 278-83		10
889	Chemical-shift-sensitive NMR imaging using spectrum simplification by tailored excitation. 1989 , 81, 167-172		
888	Non-invasive histochemistry of plant materials by magnetic resonance microscopy. 1990 , 159, 70-73		24
887	Snapshot FLASH MRI. Applications to T1, T2, and chemical-shift imaging. <i>Magnetic Resonance in Medicine</i> , 1990 , 13, 77-89	4.4	628
886	Proton magnetic resonance spectroscopy of small regions (1 mL) localized inside superficial human tumors. A clinical feasibility study. 1990 , 3, 227-32		18
885	Variable flip angle imaging and fat suppression in combined gradient and spin-echo (GREASE) techniques. 1990 , 8, 131-9		15
884	Two-species chemical-shift imaging using prior knowledge and estimation theory. Application to rock cores. 1990 , 87, 319-330		3
883	Highly Effective Water Suppression for in vivo proton NMR Spectroscopy (DRYSTEAM). 1990 , 88, 28-41		17
882	An efficient algorithm for MR image reconstruction without low spatial frequencies. 1990 , 9, 184-9		9

881	31P saturation transfer and phosphocreatine imaging in the monkey brain. 1991 , 88, 8372-6		24
880	Solvent signal suppression in NMR. 1991 , 23, 135-209		176
879	Applications of chemical-shift-selective NMR microscopy to the non-invasive histochemistry of plant materials. 1991 , 9, 357-63		29
878	Spectral localization with optimal pointspread function. 1991 , 94, 268-287		26
877	A new selective presaturation pulse for imaging and spectroscopy. 1991 , 92, 421-428		
876	Acquisition and quantitation in proton spectroscopy. 1991 , 4, 64-9		44
875	Visualization of altered myocardial lipids by 1H NMR chemical-shift imaging following ischemic insult. <i>Magnetic Resonance in Medicine</i> , 1991 , 17, 379-89	4.4	12
874	1H spectroscopic imaging using a spectral-spatial excitation pulse. <i>Magnetic Resonance in Medicine</i> , 1991 , 18, 269-79	4.4	41
873	Three-point Dixon technique for true water/fat decomposition with B0 inhomogeneity correction. <i>Magnetic Resonance in Medicine</i> , 1991 , 18, 371-83	4.4	549
872	Spectroscopic imaging with multidimensional pulses for excitation: SIMPLE. <i>Magnetic Resonance in Medicine</i> , 1991 , 19, 67-84	4.4	35
871	ACE: a single-shot method for water-suppressed localization and editing of spectra, images, and spectroscopic images. <i>Magnetic Resonance in Medicine</i> , 1991 , 19, 136-60	4.4	14
870	A clinically viable technique of fat suppression for abdomen and pelvis. <i>Magnetic Resonance in Medicine</i> , 1991 , 21, 320-6	4.4	4
869	Localized Larmor frequency-guided fat and water proton MRI of the spine: a method to emphasize pathological findings. 1991 , 9, 509-15		20
868	Use of presaturation for chemical-shift-selective imaging of individual fluids in sandstone and carbonate cores. 1991 , 93, 142-150		2
867	Complete separation of intracellular and extracellular information in NMR spectra of perfused cells by diffusion-weighted spectroscopy. 1991 , 88, 3228-32		183
866	Proton NMR spectroscopy of Canavan's disease. 1992 , 23, 263-7		47
865	Fat suppression in magnetic resonance imaging at low field strength using binomial pulse sequences. 1992 , 65, 132-6		6
864	Enhancement and demyelination of the intraorbital optic nerve. Fat suppression magnetic resonance imaging. 1992 , 99, 713-9		65

863	Solvent Suppression Strategies for In Vivo Magnetic Resonance Spectroscopy. 1992 , 67-108		2
862	Localized Spectroscopy Using Static Magnetic Field Gradients: Comparison of Techniques. 1992 , 119-149		8
861	Fat suppression with an improved selective presaturation pulse. 1992 , 10, 49-53		18
860	Shoulder MRI: routine examinations using gradient recalled and fat-saturated sequences. 1992 , 2, 142		1
859	Fast inversion recovery T1 contrast and chemical shift contrast in high-resolution snapshot FLASH MR images. 1992 , 10, 1-6		21
858	Proton spectroscopic imaging of human brain. 1992 , 98, 556-575		9
857	Fat and water differentiation by nuclear magnetic resonance imaging. 1992 , 4, 53-71		17
856	Fat and water differentiation by nuclear magnetic resonance imaging. 1992 , 4, 162-165		
855	¹ H spectroscopic imaging of rat brain at 7 tesla. <i>Magnetic Resonance in Medicine</i> , 1992 , 25, 107-19	4.4	8
854	On the application of ultra-fast RARE experiments. <i>Magnetic Resonance in Medicine</i> , 1992 , 27, 142-64	4.4	160
853	Magnetic resonance neurography. <i>Magnetic Resonance in Medicine</i> , 1992 , 28, 328-38	4.4	154
852	Quantitation of proton NMR spectra of the human brain using tissue water as an internal concentration reference. 1993 , 6, 89-94		260
851	Chemical shift imaging in nuclear magnetic resonance: A comparison of methods. 1993 , 5, 43-55		20
850	Double inversion recovery improves water suppression in vivo. <i>Magnetic Resonance in Medicine</i> , 1993 , 29, 540-2	4.4	18
849	Correction of phase effects produced by eddy currents in solvent suppressed ¹ H-CSI. <i>Magnetic Resonance in Medicine</i> , 1993 , 30, 277-82	4.4	27
848	Quantitative proton spectroscopy and histology of a canine brain tumor model. <i>Magnetic Resonance in Medicine</i> , 1993 , 30, 458-64	4.4	22
847	Sensitivity and localization enhancement in multinuclear in vivo NMR spectroscopy by outer volume presaturation. <i>Magnetic Resonance in Medicine</i> , 1993 , 30, 661-71	4.4	49
846	Localized proton MR spectroscopy of the brain in children. <i>Journal of Magnetic Resonance Imaging</i> , 1993 , 3, 719-29	5.6	46

845	Aortoiliac disease: two-dimensional inflow MR angiography with lipid suppression. <i>Journal of Magnetic Resonance Imaging</i> , 1993 , 3, 829-34	5.6	5
844	A chemical shift selective inversion recovery sequence for fat-suppressed MRI: theory and experimental validation. 1993 , 11, 341-55		78
843	Simultaneous preparation of inversion recovery T1 and chemical shift selective contrast using snapshot-FLASH-MRI. 1993 , 1, 77-82		4
842	An application of snapshot FLASH MRI in localized NMR spectroscopy. 1993 , 1, 10-14		1
841	Leukemic red bone marrow changes assessed by magnetic resonance imaging and localized ¹ H spectroscopy. 1993 , 66, 3-13		41
840	Selective ¹⁹ F MR imaging of 5-fluorouracil and alpha-fluoro-beta-alanine. 1993 , 11, 1193-201		11
839	A ¹⁹ F MR Technique For Drug-specific Imaging Of The Cytostatic Agent 5-fluorouracil.		
838	Lipoma on surface of centroparietal lobes. 1993 , 9, 144-6		14
837	Fat suppressed magnetic resonance imaging at 0.5 T using binomial radiofrequency pulses. 1993 , 66, 886-91		1
836	NMR and the study of pathological state in cells and tissues. 1993 , 145, 1-63		8
835	Reducing magnetic susceptibility differences using liquid fluorocarbon pads (Sat Pad): results with spectral presaturation of fat. 1994 , 22, 1477-83		18
834	Hematopoietic reconstitution after bone marrow transplantation: assessment with MR imaging and ¹ H localized spectroscopy. <i>Journal of Magnetic Resonance Imaging</i> , 1994 , 4, 71-8	5.6	20
833	Short TE hydrogen-1 spectroscopic MR imaging of normal human brain: reproducibility studies. <i>Journal of Magnetic Resonance Imaging</i> , 1994 , 4, 545-51	5.6	26
832	Silicone-fat differentiation in the breast: exploiting the bright-fat phenomenon in fast spin-echo MR imaging. <i>Journal of Magnetic Resonance Imaging</i> , 1994 , 4, 868-71	5.6	1
831	Automated single-voxel proton MRS: technical development and multisite verification. <i>Magnetic Resonance in Medicine</i> , 1994 , 31, 365-73	4.4	220
830	Construction of a 28-mm ¹ H/ ¹³ C probe and actively shielded Z-gradient set for operation in a 9.4 T/89 mm magnet. <i>Magnetic Resonance in Medicine</i> , 1994 , 32, 129-32	4.4	1
829	Quantitative proton spectroscopy of canine brain: in vivo and in vitro correlations. <i>Magnetic Resonance in Medicine</i> , 1994 , 32, 157-63	4.4	173
828	Band-selective spin echoes for in vivo localized ¹ H NMR spectroscopy. <i>Magnetic Resonance in Medicine</i> , 1994 , 32, 277-84	4.4	34

827	Absolute quantitative proton NMR spectroscopy based on the amplitude of the local water suppression pulse. Quantification of brain water and metabolites. 1994 , 7, 311-8		80
826	Effects of high energy shock waves on tumor blood flow and metabolism: ³¹ P/ ¹ H/ ² H nuclear magnetic resonance study. 1994 , 7, 319-26		4
825	Fast ¹⁹ F-NMR imaging in vivo using FLASH-MRI. 1994 , 12, 149-53		22
824	Eosinophilia-myalgia syndrome: findings at MR imaging and proton spectroscopy of the lower leg. 1994 , 12, 513-22		14
823	Quantitative Determination of Water and Lipid in Sunflower Oil and Water/Meat/Fat Emulsions by Nuclear Magnetic Resonance Imaging. 1994 , 59, 808-812		15
822	Sixth Joint Magnetism and Magnetic Materials - International Magnetism Conference. 1994 , 30, 1242-1246		8
821	Improved target volume definition for precision radiotherapy planning of meningiomas by correlation of CT and dynamic, Gd-DTPA-enhanced FLASH MR imaging. 1994 , 33, 73-9		8
820	. 1994 , 41, 2856-2861		5
819	Applications of Magnetic Resonance Imaging to Materials Research. 1994 , 29, 233-267		4
818	Proton magnetic resonance spectroscopy (¹ H MRS) of the hippocampal formation in schizophrenia: a pilot study. 1994 , 165, 481-5		88
817	MR Proton Spectroscopy in Vivo: Applicazioni nello studio del Sistema Nervoso Centrale. 1994 , 7, 839-858		
816	Diffusion-weighted imaging differentiates ischemic tissue from traumatized tissue. 1994 , 25, 843-8		95
815	The effect of respiration on the contrast and sharpness of liver lesions in MRI. <i>Magnetic Resonance in Medicine</i> , 1995 , 33, 1-7	4.4	23
814	Echo-time-encoded burst imaging (EBI): a novel technique for spectroscopic imaging. <i>Magnetic Resonance in Medicine</i> , 1995 , 33, 573-8	4.4	14
813	Susceptibility artifact reduction in fat suppression. <i>Magnetic Resonance in Medicine</i> , 1995 , 33, 582-7	4.4	7
812	Chemical shift imaging from simultaneous acquisition of a primary and a stimulated echo. <i>Magnetic Resonance in Medicine</i> , 1995 , 33, 683-8	4.4	2
811	Double-echo three-point-Dixon method for fat suppression MRI. <i>Magnetic Resonance in Medicine</i> , 1995 , 34, 120-4	4.4	35
810	Mapping the biodistribution and catabolism of 5-fluorouracil in tumor-bearing rats by chemical-shift selective ¹⁹ F MR imaging. <i>Magnetic Resonance in Medicine</i> , 1995 , 34, 302-7	4.4	22

809	In vivo measurement of partial oxygen pressure in large vessels and in the reticuloendothelial system using fast 19F-MRI. <i>Magnetic Resonance in Medicine</i> , 1995 , 34, 738-45	4.4	45
808	Magnetic resonance imaging reveals a markedly inhomogeneous distribution of marrow cellularity in a patient with myelodysplasia. 1995 , 71, 143-6		4
807	Characterization of bone marrow after transplantation by means of magnetic resonance. 1995 , 70, 3-13		8
806	Zeolite synthesis in unstirred batch reactors I. Nuclear magnetic resonance imaging of non-uniform pre-mixing. 1995 , 3, 623-636		6
805	Choice of soft pulse shapes for signal excitation in chemical shift selective imaging. 1995 , 13, 763-6		6
804	Magnetic Resonance Spectroscopy. 1995 , 419-467		4
803	Automatic muscle/fat quantification on MR images.		5
802	Intracranial tumors in children: small single-voxel proton MR spectroscopy using short- and long-echo sequences. 1996 , 38, 254-63		40
801	Whole-Body Continuously Moving Table MRI: Principles and Applications. 1996 ,		
800	Magnetic resonance microscopy and spectroscopy reveal kinetics of cryoprotectant permeation in a multicompartmental biological system. 1996 , 93, 7454-9		87
799	Single Voxel Localized Proton NMR Spectroscopy of Human Brain In Vivo. 1996 ,		1
798	Chapter 9 Nuclear magnetic resonance studies of cell metabolism in vivo. 1996 , 4, 241-269		
797	Proton chemical shift imaging, metabolic maps, and single voxel spectroscopy of glial brain tumors. 1996 , 4, 139-50		33
796	Quantitative evaluation of NMR and MRI methods to measure sucrose concentrations in plants. 1996 , 194, 54-62		17
795	Assessment of the composition of bone marrow prior to and following autologous BMT and PBSCT by magnetic resonance. 1996 , 72, 361-70		8
794	Determination of the optimal imaging parameters of the RODEO pulse sequence by computer simulation. <i>Journal of Magnetic Resonance Imaging</i> , 1996 , 6, 684-9	5.6	2
793	Recent technical advances in MR imaging of the abdomen. <i>Journal of Magnetic Resonance Imaging</i> , 1996 , 6, 822-32	5.6	24
792	Separation of water and fat MR images in a single scan at .35 T using "sandwich" echoes. <i>Journal of Magnetic Resonance Imaging</i> , 1996 , 6, 909-17	5.6	22

791	Quantitative proton MR spectroscopic imaging of the human brain. <i>Magnetic Resonance in Medicine</i> , 1996 , 35, 356-63	4.4	225
790	Short echo time proton magnetic resonance spectroscopic imaging of macromolecule and metabolite signal intensities in the human brain. <i>Magnetic Resonance in Medicine</i> , 1996 , 35, 633-9	4.4	84
789	Removal of lipid artifacts in 1H spectroscopic imaging by data extrapolation. <i>Magnetic Resonance in Medicine</i> , 1996 , 35, 678-87	4.4	119
788	Observation and quantitation of lactate in oxidative and glycolytic fibers of skeletal muscles. <i>Magnetic Resonance in Medicine</i> , 1996 , 36, 30-8	4.4	22
787	In vivo rapid magnetic field measurement and shimming using single scan differential phase mapping. <i>Magnetic Resonance in Medicine</i> , 1996 , 36, 637-42	4.4	37
786	2D locally focused MRI: applications to dynamic and spectroscopic imaging. <i>Magnetic Resonance in Medicine</i> , 1996 , 36, 834-46	4.4	19
785	Contrast in NMR imaging and microscopy. 1996 , 8, 205-225		41
784	Reproducibility of metabolite peak areas in 1H MRS of brain. 1996 , 14, 281-92		95
783	Proton magnetic resonance spectroscopy and intracranial tumours: clinical perspectives. 1996 , 243, 706-14		55
782	Bone marrow NMR in vivo. 1996 , 29, 169-227		26
781	Proton magnetic resonance spectroscopy in patients with glial tumors: a multicenter study. 1996 , 84, 449-58		280
780	Magnetic resonance angiography. 1997 , 70, 6-28		52
779	Contribution of vasogenic and cellular edema to traumatic brain swelling measured by diffusion-weighted imaging. 1997 , 87, 900-7		280
778	Multishot rosette trajectories for spectrally selective MR imaging. 1997 , 16, 372-7		84
777	Magnetization transfer imaging of bone marrow with and without fat suppression. 1997 , 4, 812-5		2
776	A repeat proton magnetic resonance spectroscopy study in social phobia. 1997 , 42, 419-24		41
775	Radiofrequency field gradient experiments. 1997 , 30, 101-135		80
774	Cerebral ischemia and white matter edema in experimental hydrocephalus: a combined in vivo MRI and MRS study. 1997 , 757, 295-8		56

773	Unambiguous NOE assignments in proteins by a combination of through-bond and through-space correlations. 1997 , 9, 371-388		2
772	Removal of the outer lines of the citrate multiplet in proton magnetic resonance spectra of the prostatic gland by accurate timing of a point-resolved spectroscopy pulse sequence. 1997 , 5, 65-9		25
771	Three-point Dixon method with a MISSTEC sequence. 1997 , 5, 285-8		3
770	Three dimensional outer volume suppression for short echo time in vivo 1H spectroscopic imaging in rat brain. 1997 , 15, 839-45		10
769	Normalisation of metabolite images in 1H NMR spectroscopic imaging. 1997 , 15, 1057-66		16
768	Fat-saturated contrast-enhanced T1-weighted MRI in evaluation of osteosarcoma and Ewing sarcoma. <i>Journal of Magnetic Resonance Imaging</i> , 1997 , 7, 585-9	5.6	38
767	Improved solvent suppression and increased spatial excitation bandwidths for three-dimensional PRESS CSI using phase-compensating spectral/spatial spin-echo pulses. <i>Journal of Magnetic Resonance Imaging</i> , 1997 , 7, 745-57	5.6	64
766	Proton MR spectroscopy of the normal human prostate with an endorectal coil and a double spin-echo pulse sequence. <i>Magnetic Resonance in Medicine</i> , 1997 , 37, 204-13	4.4	83
765	Three-dimensional spectral-spatial excitation. <i>Magnetic Resonance in Medicine</i> , 1997 , 37, 378-86	4.4	27
764	Intracellular volume and apparent diffusion constants of perfused cancer cell cultures, as measured by NMR. <i>Magnetic Resonance in Medicine</i> , 1997 , 37, 825-32	4.4	96
763	Background suppression with multiple inversion recovery nulling: applications to projective angiography. <i>Magnetic Resonance in Medicine</i> , 1997 , 37, 898-905	4.4	64
762	Consistent fat suppression with compensated spectral-spatial pulses. <i>Magnetic Resonance in Medicine</i> , 1997 , 38, 198-206	4.4	53
761	Highly selective water and fat imaging applying multislice sequences without sensitivity to B1 field inhomogeneities. <i>Magnetic Resonance in Medicine</i> , 1997 , 38, 269-74	4.4	56
760	Improved water and lipid suppression for 3D PRESS CSI using RF band selective inversion with gradient dephasing (BASING). <i>Magnetic Resonance in Medicine</i> , 1997 , 38, 311-21	4.4	175
759	Radial Spectroscopic Imaging. 1997 , 125, 325-331		17
758	Two-dimensional proton chemical-shift imaging of human muscle metabolites. 1997 , 126, 187-92		16
757	MRS metabolic markers of seizures and seizure-induced neuronal damage. 1998 , 39, 244-50		72
756	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. 1998 , 133, 243-54		102

755	Sequential inversion recovery with RIDE-simultaneous suppression of two solvent signals in 17O NMR spectroscopy. 1998 , 134, 168-70		4
754	Simultaneous in vivo spectral editing and water suppression. 1998 , 11, 266-72		695
753	A fast spin echo technique with circular sampling. <i>Magnetic Resonance in Medicine</i> , 1998 , 39, 23-7	4.4	18
752	3D multivoxel proton spectroscopy of human brain using a hybrid of 8th-order Hadamard encoding with 2D chemical shift imaging. <i>Magnetic Resonance in Medicine</i> , 1998 , 39, 34-40	4.4	44
751	Proton NMR spectroscopy of solvent-saturable resonances: a new approach to study pH effects in situ. <i>Magnetic Resonance in Medicine</i> , 1998 , 40, 36-42	4.4	97
750	Detecting natural abundance carbon signal of NAA metabolite within 12-cm ³ localized volume of human brain using 1H-[13C] NMR spectroscopy. <i>Magnetic Resonance in Medicine</i> , 1998 , 40, 180-4	4.4	32
749	Quantitative assessment of improved homogeneity using higher-order shims for spectroscopic imaging of the brain. <i>Magnetic Resonance in Medicine</i> , 1998 , 40, 376-82	4.4	56
748	Total brain N-acetylaspartate concentration in normal, age-grouped females: quantitation with non-echo proton NMR spectroscopy. <i>Magnetic Resonance in Medicine</i> , 1998 , 40, 684-9	4.4	72
747	Adiabatic water suppression using frequency selective excitation. <i>Magnetic Resonance in Medicine</i> , 1998 , 40, 690-6	4.4	55
746	In vivo 1H MR spectroscopic imaging and diffusion weighted MRI in experimental hydrocephalus. <i>Magnetic Resonance in Medicine</i> , 1998 , 40, 832-9	4.4	26
745	Abstracts (Continue in Part XXXVII). 1998 , 1998, 1801-1850		
744	Fat-suppressed gadolinium-enhanced three-dimensional magnetic resonance angiography adequately depicts the status of iliac arteries following atherectomy and stent placement. 1998 , 21, 345-7		7
743	Pharmacokinetics using fluorine NMR in vivo. 1998 , 33, 1-56		49
742	Chemical shift artifact-free imaging: a new option in MRI?. 1998 , 16, 839-44		7
741	Intraluminal signal intensity of iliac artery stents investigated by contrast-enhanced three-dimensional MR angiography. 1998 , 22, 9-12		11
740	Frontal lobe of children with schizophrenia spectrum disorders: a proton magnetic resonance spectroscopic study. 1998 , 43, 263-9		47
739	A Magnetic Resonance Imaging Technique for Quantitative Mapping of Moisture and Fat in a Cheese Block. 1998 , 81, 9-15		21
738	Focused Topic Session Summaries. 1998 , 11, 49-120		

737	Human prostate: multisection proton MR spectroscopic imaging with a single spin-echo sequence--preliminary experience. 1999 , 213, 919-25		31
736	Fast spectroscopic imaging for non-invasive thermometry using the Pr[MOE-DO3A] complex. <i>Physics in Medicine and Biology</i> , 1999 , 44, 2397-408	3.8	22
735	Cerebral metabolism in experimental hydrocephalus: an in vivo ¹ H and ³¹ P magnetic resonance spectroscopy study. 1999 , 91, 660-8		18
734	Cerebral amino acids studied by nuclear magnetic resonance spectroscopy in vivo. 1999 , 34, 301-326		16
733	In vivo lactate editing in single voxel proton spectroscopy and proton spectroscopic imaging by homonuclear polarisation transfer. 1999 , 17, 131-9		6
732	Detection of homonuclear decoupled in vivo proton NMR spectra using constant time chemical shift encoding: CT-PRESS. 1999 , 17, 141-50		61
731	Homonuclear uncoupled ¹ H-spectroscopy of the human brain using weighted accumulation schemes. 1999 , 17, 1193-201		7
730	¹ H spectroscopic imaging of acute head injury--evidence of diffuse axonal injury. 1999 , 8, 109-15		16
729	Water-suppression MRI: role in the evaluation of osseous lesions. 1999 , 23, 319-26		1
728	Composite pulsed field gradients with refocused chemical shifts and short recovery time. 1999 , 136, 54-62		21
727	Mapping brain metabolites using a double echo-filter metabolite imaging (DEFMI) technique. 1999 , 140, 363-70		15
726	NAA-weighted imaging of the human brain using a conventional readout gradient. <i>Magnetic Resonance in Medicine</i> , 1999 , 41, 187-92	4.4	3
725	Off-resonance metabolite magnetization transfer measurements on rat brain in situ. <i>Magnetic Resonance in Medicine</i> , 1999 , 41, 1136-44	4.4	53
724	Dynamics of prostate cancer cell invasion studied in vitro by NMR microscopy. <i>Magnetic Resonance in Medicine</i> , 1999 , 42, 277-82	4.4	12
723	MR spectroscopy using multi-ring surface coils. <i>Magnetic Resonance in Medicine</i> , 1999 , 42, 655-64	4.4	12
722	High-resolution three-dimensional in vivo imaging of atherosclerotic plaque. <i>Magnetic Resonance in Medicine</i> , 1999 , 42, 762-71	4.4	66
721	Coronary venous oximetry using MRI. <i>Magnetic Resonance in Medicine</i> , 1999 , 42, 837-48	4.4	45
720	Brain metabolic alterations in Cushing's syndrome as monitored by proton magnetic resonance spectroscopy. 1999 , 12, 357-63		28

719	Water Signal Suppression in NMR Spectroscopy. 1999 , 289-354		54
718	Off-resonance correction of MR images. 1999 , 18, 481-95		60
717	Axonal injury in the internal capsule correlates with motor impairment after stroke. 1999 , 30, 956-62		73
716	Magnetic Resonance, General Medical. 2000 ,		
715	Axonal injury or loss in the internal capsule and motor impairment in multiple sclerosis. 2000 , 57, 65-70		82
714	Relating MRI changes to motor deficit after ischemic stroke by segmentation of functional motor pathways. 2000 , 31, 672-9		110
713	Single Voxel Proton MR Spectroscopy Methods and Applications in Neuropediatrics. 2000 , 13, 7-15		
712	MR-guided and MR-monitored neurosurgical procedures at 1.5 T. 2000 , 24, 909-18		21
711	Clinical application of BASING and spectral/spatial water and lipid suppression pulses for prostate cancer staging and localization by in vivo 3D 1H magnetic resonance spectroscopic imaging. <i>Magnetic Resonance in Medicine</i> , 2000 , 43, 17-22	4.4	98
710	Very selective suppression pulses for clinical MRSI studies of brain and prostate cancer. <i>Magnetic Resonance in Medicine</i> , 2000 , 43, 23-33	4.4	214
709	Motion correction and lipid suppression for 1H magnetic resonance spectroscopy. <i>Magnetic Resonance in Medicine</i> , 2000 , 43, 325-30	4.4	50
708	Design of improved spectral-spatial pulses for routine clinical use. <i>Magnetic Resonance in Medicine</i> , 2000 , 43, 410-20	4.4	57
707	Proton MR spectroscopy of wild-type and creatine kinase deficient mouse skeletal muscle: dipole-dipole coupling effects and post-mortem changes. <i>Magnetic Resonance in Medicine</i> , 2000 , 43, 517-24	4.4	41
706	Proton magnetic resonance spectroscopy in primary and secondary progressive multiple sclerosis. 2000 , 13, 57-63		36
705	Imaging of water and fat fractions in high-field MRI with multiple slice chemical shift-selective inversion recovery. <i>Journal of Magnetic Resonance Imaging</i> , 2000 , 12, 488-96	5.6	16
704	Fast echo planar based correlation-peak imaging: demonstration on the rat brain in vivo. <i>Magnetic Resonance in Medicine</i> , 2000 , 44, 23-8	4.4	23
703	A new method for fast proton spectroscopic imaging: spectroscopic GRASE. <i>Magnetic Resonance in Medicine</i> , 2000 , 44, 668-72	4.4	17
702	Oxidative phosphorylation defect in the brains of carriers of the tRNA ^{Leu} (UUR) A3243G mutation in a MELAS pedigree. 2000 , 47, 179-185		113

701	Diffusion weighted imaging and magnetic resonance spectroscopy in a low flow ischaemia model due to endothelin induced vasospasm. 2000 , 13, 154-62	19
700	Proton MR spectroscopy of prostatic tissue focused on the detection of spermine, a possible biomarker of malignant behavior in prostate cancer. 2000 , 10, 153-159	7
699	Muscle characterisation by NMR imaging and spectroscopic techniques. 2000 , 69, 419-426	29
698	Correlating magnetic resonance imaging markers of axonal injury and demyelination in motor impairment secondary to stroke and multiple sclerosis. 2000 , 18, 369-78	33
697	Correlation between proton magnetic resonance spectroscopic lactate measurements and vascular reactivity in chronic occlusive cerebrovascular disease: a comparison with positron emission tomography. 2000 , 18, 1167-74	4
696	Recovery of the brain choline level in treated Cushing's patients as monitored by proton magnetic resonance spectroscopy. 2000 , 862, 301-7	23
695	MR spectroscopy: a powerful tool for investigating brain function and neurological diseases. 2000 , 25, 1365-72	32
694	[The MR characterization of the composition of the hematopoietic bone marrow. The findings in generalized neoplasms and the monitoring of therapy]. 2000 , 40, 700-9	4
693	Proton MR spectroscopy of prostatic tissue focused on the detection of spermine, a possible biomarker of malignant behavior in prostate cancer. 2000 , 10, 153-9	77
692	Interleukin-1beta -induced changes in blood-brain barrier permeability, apparent diffusion coefficient, and cerebral blood volume in the rat brain: a magnetic resonance study. 2000 , 20, 8153-9	192
691	Proton MR spectroscopic imaging without water suppression. 2000 , 217, 296-300	46
690	Partial fat-saturated contrast-enhanced three-dimensional MR angiography compared with non-fat-saturated and conventional fat-saturated MR angiography. 2000 , 216, 298-303	16
689	Early proton magnetic resonance spectroscopy in normal-appearing brain correlates with outcome in patients following traumatic brain injury. 2000 , 123 (Pt 10), 2046-54	193
688	Rapid MR imaging of cryoprotectant permeation in an engineered dermal replacement. 2000 , 40, 13-26	21
687	Assessment of GABA concentration in human brain using two-dimensional proton magnetic resonance spectroscopy. 2000 , 100, 169-78	61
686	Proton MR spectroscopy of the brain. 2000 , 21, 434-51	28
685	Three-dimensional magnetic resonance spectroscopic imaging of brain and prostate cancer. 2000 , 2, 166-89	150
684	Imaging prostate cancer invasion with multi-nuclear magnetic resonance methods: the Metabolic Boyden Chamber. 2000 , 2, 273-9	29

683	Technical issues for the study of the optic nerve with MRI. 2000 , 172 Suppl 1, S13-6		18
682	The development of low-grade cerebral edema in cirrhosis is supported by the evolution of (1)H-magnetic resonance abnormalities after liver transplantation. 2001 , 35, 598-604		194
681	Chemical-shift imaging utilizing the positional shifts along the readout gradient direction. 2001 , 20, 1156-66		6
680	Myocardial creatine kinase kinetics and isoform expression in hearts with severe LV hypertrophy. 2001 , 281, H376-86		28
679	Mitochondrial ATPase and high-energy phosphates in failing hearts. 2001 , 281, H1319-26		53
678	Severe metabolic abnormalities in the white matter of patients with vacuolating megalencephalic leukoencephalopathy with subcortical cysts. A proton MR spectroscopic imaging study. 2001 , 248, 403-9		36
677	Plant NMR spectroscopy. 2001 , 39, 267-300		62
676	An efficient chemical shift imaging scheme for magnetic resonance-guided neurosurgery. <i>Journal of Magnetic Resonance Imaging</i> , 2001 , 14, 1-7	5.6	11
675	Lactate discrimination incorporated into echo-planar spectroscopic imaging. <i>Magnetic Resonance in Medicine</i> , 2001 , 45, 568-74	4.4	4
674	Single-shot diffusion trace (1)H NMR spectroscopy. <i>Magnetic Resonance in Medicine</i> , 2001 , 45, 741-8	4.4	42
673	Single-voxel proton MRS of the human brain at 1.5T and 3.0T. <i>Magnetic Resonance in Medicine</i> , 2001 , 45, 765-9	4.4	186
672	BISTRO: an outer-volume suppression method that tolerates RF field inhomogeneity. <i>Magnetic Resonance in Medicine</i> , 2001 , 45, 1095-102	4.4	77
671	Comparison of methods for reduction of lipid contamination for in vivo proton MR spectroscopic imaging of the brain. <i>Magnetic Resonance in Medicine</i> , 2001 , 46, 706-12	4.4	19
670	Sensitivity-encoded spectroscopic imaging. <i>Magnetic Resonance in Medicine</i> , 2001 , 46, 713-22	4.4	147
669	SNR versus resolution in 3D 1H MRS of the human brain at high magnetic fields. <i>Magnetic Resonance in Medicine</i> , 2001 , 46, 1049-53	4.4	56
668	Assessment of 3D proton MR echo-planar spectroscopic imaging using automated spectral analysis. <i>Magnetic Resonance in Medicine</i> , 2001 , 46, 1072-8	4.4	83
667	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> , 2001 , 46, 1216-22	4.4	41
666	Zero-quantum filter offering single-shot lipid suppression and simultaneous detection of lactate, choline, and creatine resonances. <i>Magnetic Resonance in Medicine</i> , 2001 , 46, 1233-7	4.4	7

665	Magnetization transfer MRS. 2001 , 14, 65-76		73
664	Detection of gamma-aminobutyric acid (GABA) by longitudinal scalar order difference editing. 2001 , 152, 124-31		29
663	Nonparametric NMR spectroscopy. 2001 , 152, 57-69		24
662	Low-power water suppression by hyperbolic secant pulses with controlled offsets and delays (WASHCODE). 2001 , 152, 168-78		17
661	In vivo detection and quantification of scalar coupled ¹ H NMR resonances. 2001 , 13, 32-76		49
660	Changes in apparent diffusion coefficients of metabolites in rat brain after middle cerebral artery occlusion measured by proton magnetic resonance spectroscopy. <i>Magnetic Resonance in Medicine</i> , 2001 , 45, 383-9	4.4	52
659	In vivo measurement of the size of lipid droplets in an intracerebral glioma in the rat. <i>Magnetic Resonance in Medicine</i> , 2001 , 45, 409-14	4.4	34
658	Long-term brain metabolic alterations in exogenous Cushing's syndrome as monitored by proton magnetic resonance spectroscopy. 2001 , 911, 134-40		16
657	Magnetic resonance imaging and spectroscopic changes in brains of patients with cerebrotendinous xanthomatosis. 2001 , 124, 121-31		104
656	Reproducibility of hippocampal single-Voxel proton MR spectroscopy and chemical shift imaging. 2001 , 176, 529-36		25
655	Altered cellular metabolism following traumatic brain injury: a magnetic resonance spectroscopy study. 2001 , 18, 231-40		84
654	Evidence of axonal damage in the early stages of multiple sclerosis and its relevance to disability. 2001 , 58, 65-70		355
653	Temporal lobe epilepsy: qualitative reading of ¹ H MR spectroscopic images for presurgical evaluation. 2001 , 218, 144-51		15
652	Diffuse axonal and tissue injury in patients with multiple sclerosis with low cerebral lesion load and no disability. 2002 , 59, 1565-71		150
651	Signal interferences from turbulent spin dynamics in solution nuclear magnetic resonance spectroscopy. 2002 , 116, 10325-10337		28
650	Coronary MR Angiographic Techniques. 2002 , 19-36		
649	Metabolic alterations in Parkinson's disease after thalamotomy, as revealed by ¹ H MR spectroscopy. 2002 , 3, 180-8		11
648	Magnetic Resonance Spectroscopic Imaging. 2002 , 351-378		4

647	Comparison of fat suppression strategies in 3D spiral coronary magnetic resonance angiography. <i>Journal of Magnetic Resonance Imaging</i> , 2002 , 15, 462-6	5.6	20
646	Quantitative 1H magnetic resonance spectroscopy and MRI of Parkinson's disease. 2002 , 17, 917-27		93
645	PGSE-WATERGATE, a new tool for NMR diffusion-based studies of ligand-macromolecule binding. 2002 , 40, 391-395		68
644	¹⁹ F-MRI of perflubron for measurement of oxygen partial pressure in porcine lungs during partial liquid ventilation. <i>Magnetic Resonance in Medicine</i> , 2002 , 47, 82-9	4.4	42
643	Scan time reduction in proton magnetic resonance spectroscopic imaging of the human brain. <i>Magnetic Resonance in Medicine</i> , 2002 , 47, 384-7	4.4	37
642	MRI of muscular fat. <i>Magnetic Resonance in Medicine</i> , 2002 , 47, 720-7	4.4	85
641	Serial proton spectroscopy, magnetization transfer ratio and T 2 relaxation in pseudotumoral demyelinating lesions. 2002 , 15, 284-92		11
640	Increased choline levels coincide with enhanced proliferative activity of human neuroepithelial brain tumors. 2002 , 15, 385-92		92
639	Functional analysis of human parotid gland in vivo using the (1)H MRS MT effect. 2002 , 15, 416-21		2
638	Localized 2D correlation spectroscopy in human brain at 3 T. 2002 , 14, 45-9		23
637	Post-processing water-fat imaging technique for fat suppression in a low-field MR imaging system, evaluation in patients with rheumatoid arthritis. 2002 , 15, 1-9		5
636	Grundlagen der 1H-MR-Spektroskopie intrakranieller Tumoren. 2002 , 12, 1-17		3
635	Magnetic resonance spectroscopy: an in vivo tool for monitoring cerebral injury in SIV-infected macaques. 2002 , 31, 228-36		15
634	Post-processing water-fat imaging technique for fat suppression in a low-field MR imaging system, evaluation in patients with rheumatoid arthritis. 2002 , 15, 1-9		3
633	Small animal neuroimaging using magnetic resonance microscopy. 2002 , 40, 275-306		16
632	Proton MR spectroscopy of neurometabolites in hepatic encephalopathy during L-ornithine-L-aspartate treatment--results of a pilot study. 2002 , 17, 103-11		8
631	Preoperative proton-MR spectroscopy of gliomas--correlation with quantitative nuclear morphology in surgical specimen. 2003 , 63, 233-45		33
630	2D-RF-pulse-encoded curved-slice imaging. 2003 , 16, 86-92		10

629	Brain metabolism in Alzheimer disease and vascular dementia assessed by in vivo proton magnetic resonance spectroscopy. 2003 , 123, 183-90		33
628	Lipid content in the musculature of the lower leg assessed by fat selective MRI: intra- and interindividual differences and correlation with anthropometric and metabolic data. <i>Journal of Magnetic Resonance Imaging</i> , 2003 , 17, 350-7	5.6	56
627	¹ H magnetic resonance spectroscopy in human hydrocephalus. <i>Journal of Magnetic Resonance Imaging</i> , 2003 , 17, 291-9	5.6	30
626	A multi-center ¹ H MRS study of the AIDS dementia complex: validation and preliminary analysis. <i>Journal of Magnetic Resonance Imaging</i> , 2003 , 17, 625-33	5.6	81
625	Detection of [1,6- ¹³ C ₂]-glucose metabolism in rat brain by in vivo ¹ H-[¹³ C]-NMR spectroscopy. <i>Magnetic Resonance in Medicine</i> , 2003 , 49, 37-46	4.4	80
624	Comparison of inversion recovery preparation schemes for lipid suppression in ¹ H MRSI of human brain. <i>Magnetic Resonance in Medicine</i> , 2003 , 49, 903-8	4.4	46
623	Optimized spiral imaging for measurement of myocardial T2 relaxation. <i>Magnetic Resonance in Medicine</i> , 2003 , 49, 1089-97	4.4	67
622	Parallel spectroscopic imaging with spin-echo trains. <i>Magnetic Resonance in Medicine</i> , 2003 , 50, 196-200	4.4	57
621	Three-dimensional BOLD fMRI with spin-echo characteristics using T2 magnetization preparation and echo-planar readouts. <i>Magnetic Resonance in Medicine</i> , 2003 , 50, 132-44	4.4	6
620	Fast proton spectroscopic imaging using steady-state free precession methods. <i>Magnetic Resonance in Medicine</i> , 2003 , 50, 453-60	4.4	20
619	Out-and-in spiral spectroscopic imaging in rat brain at 7 T. <i>Magnetic Resonance in Medicine</i> , 2003 , 50, 1127-33	4.4	16
618	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> , 2003 , 50, 915-24	4.4	24
617	Correlation between the occurrence of ¹ H-MRS lipid signal, necrosis and lipid droplets during C6 rat glioma development. 2003 , 16, 199-212		73
616	Local Velocity and Concentration of the Single Components in Water/Oil Mixtures Monitored by Means of MRI Flow Experiments in Steady Tube Flow. 2003 , 26, 59-68		6
615	Observation of the Structure, Moisture Distribution, and Oil Distribution in the Coating of Tempura by NMR Micro Imaging. 2003 , 68, 2034-2039		10
614	Quality assurance of magnetic resonance spectroscopic imaging-derived metabolic data. 2003 , 57, 1159-73		9
613	Resolution enhancement in in vivo NMR spectroscopy: detection of intermolecular zero-quantum coherences. 2003 , 161, 265-74		43
612	Quantitative ¹ H NMR spectroscopy of blood plasma metabolites. 2003 , 75, 2100-4		67

611	Dynamics of cognitive processing in the human hippocampus by neuromagnetic and neurochemical assessments. 2003 , 20, 561-71		26
610	Magnetic resonance spectroscopy and imaging of the thalamus in idiopathic generalized epilepsy. 2003 , 126, 2447-54		104
609	Rapid sample-mixing technique for transient NMR and photo-CIDNP spectroscopy: applications to real-time protein folding. 2003 , 125, 12484-92		87
608	Determination of histopathological tumor grade in neuroepithelial brain tumors by using spectral pattern analysis of in vivo spectroscopic data. 2003 , 98, 74-81		66
607	¹ H MRS of a boron neutron capture therapy ¹⁰ B-carrier, L-p-boronophenylalanine-fructose complex, BPA-F: phantom studies at 1.5 and 3.0 T. <i>Physics in Medicine and Biology</i> , 2003 , 48, 1027-39	3.8	12
606	Human gallbladder bile: noninvasive investigation in vivo with single-voxel ¹ H MR spectroscopy. 2003 , 229, 587-92		25
605	Magnetic Resonance Imaging. 2003 ,		
604	Fundamentals of MR spectroscopy. 2004 , 7-26		6
603	SPECTRAL RADIOFREQUENCY PULSES. 2004 , 96-124		3
602	¹ H MRS phantom studies of BNCT ¹⁰ B-carrier, BPA ¹⁰ B using STEAM and PRESS MRS sequences: Detection limit and quantification. 2004 , 18, 133-142		5
601	Molecular and functional imaging of cancer: advances in MRI and MRS. 2004 , 386, 3-60		53
600	Multiparametric and multinuclear magnetic resonance imaging of human breast cancer: current applications. 2004 , 3, 543-50		36
599	Morphology of proliferating and non-proliferating tumor cell nuclei in glioblastomas correlates with preoperative data from proton-MR-spectroscopy. 2004 , 24, 172-82		9
598	Proton magnetic resonance spectroscopy in corticobasal degeneration and progressive supranuclear palsy. 2004 , 4, 84-92		4
597	Cerebral creatine kinase deficiency influences metabolite levels and morphology in the mouse brain: a quantitative in vivo ¹ H and ³¹ P magnetic resonance study. 2004 , 90, 1321-30		58
596	A prospective longitudinal in vivo ¹ H MR spectroscopy study of the SIV/macaque model of neuroAIDS. 2004 , 5, 10		39
595	In vivo 2D magnetic resonance spectroscopy of small animals. 2004 , 17, 317-38		16
594	Water suppression without signal loss in HR-MAS ¹ H NMR of cells and tissues. 2004 , 171, 143-50		26

593	Proton magnetic resonance spectroscopic imaging of human breast cancer: a preliminary study. <i>Journal of Magnetic Resonance Imaging</i> , 2004 , 19, 68-75	5.6	153
592	High-resolution, multicontrast three-dimensional-MRI characterizes atherosclerotic plaque composition in ApoE ^{-/-} mice ex vivo. <i>Journal of Magnetic Resonance Imaging</i> , 2004 , 20, 981-9	5.6	25
591	Experimental method to eliminate frequency modulation sidebands in localized in vivo ¹ H MR spectra acquired without water suppression. <i>Magnetic Resonance in Medicine</i> , 2004 , 51, 602-6	4.4	21
590	Quantitative proton magnetic resonance spectroscopy of the cervical spinal cord. <i>Magnetic Resonance in Medicine</i> , 2004 , 51, 1122-8	4.4	77
589	Design of symmetric-sweep spectral-spatial RF pulses for spectral editing. <i>Magnetic Resonance in Medicine</i> , 2004 , 52, 147-53	4.4	27
588	Navigator gating and volume tracking for double-triggered cardiac proton spectroscopy at 3 Tesla. <i>Magnetic Resonance in Medicine</i> , 2004 , 51, 1091-5	4.4	45
587	Ultrafast 2D NMR spectroscopy using sinusoidal gradients: principles and ex vivo brain investigations. <i>Magnetic Resonance in Medicine</i> , 2004 , 52, 893-7	4.4	10
586	2D J-resolved spiral spectroscopic imaging in rat brain at 7 T. 2004 , 7, 201-206		2
585	A cost-minimizing diagnostic methodology for discrimination between neoplastic and non-neoplastic brain lesions: utilizing a genetic algorithm. 2004 , 11, 169-77		6
584	Photo-CIDNP NMR methods for studying protein folding. 2004 , 34, 75-87		69
583	¹ H MRSI evidence of metabolic abnormalities in childhood-onset schizophrenia. 2004 , 21, 1781-9		40
582	In vivo 2D J-resolved magnetic resonance spectroscopy of rat brain with a 3-T clinical human scanner. 2004 , 22, 381-6		33
581	Evaluation of extraocular muscles in the edematous phase of Graves ophthalmopathy on contrast-enhanced fat-suppressed magnetic resonance imaging. 2004 , 28, 80-6		31
580	Specificity of choline metabolites for in vivo diagnosis of breast cancer using ¹ H MRS at 1.5 T. 2005 , 15, 1037-43		96
579	Single voxel proton magnetic resonance spectroscopy in women with and without intimate partner violence-related posttraumatic stress disorder. 2005 , 139, 249-58		36
578	Metabolite changes in HT-29 xenograft tumors following HIF-1 α inhibition with PX-478 as studied by MR spectroscopy in vivo and ex vivo. 2005 , 18, 430-9		45
577	Dynamic study of cerebral bioenergetics and brain function using in vivo multinuclear MRS approaches. 2005 , 27A, 84-121		11
576	Combined dynamic contrast enhanced breast MR and proton spectroscopic imaging: a feasibility study. <i>Journal of Magnetic Resonance Imaging</i> , 2005 , 21, 23-8	5.6	78

575	Effect of ingestion order of the fat component of a solid meal on intragastric fat distribution and gastric emptying assessed by MRI. <i>Journal of Magnetic Resonance Imaging</i> , 2005 , 21, 383-90	5.6	44
574	Noninvasive MR thermometry using paramagnetic lanthanide complexes of 1,4,7,10-tetraazacyclododecane- $\alpha,\alpha',\alpha'',\alpha'''$ -tetramethyl-1,4,7,10-tetraacetic acid (DOTMA4-). <i>Magnetic Resonance in Medicine</i> , 2005 , 53, 294-303	4.4	47
573	Chemical-shift-selective filter for the in vivo detection of J-coupled metabolites at 3T. <i>Magnetic Resonance in Medicine</i> , 2005 , 53, 275-81	4.4	19
572	Simultaneous water and lipid suppression for in vivo brain spectroscopy in humans. <i>Magnetic Resonance in Medicine</i> , 2005 , 54, 691-6	4.4	29
571	Interleaved acquisition of lipid and water images of the heart using a double-inversion fast spin-echo method. <i>Magnetic Resonance in Medicine</i> , 2005 , 54, 1562-8	4.4	3
570	Klinische Anwendung der Protonenmagnetresonanztomographie in der Diagnostik intrakranieller Raumforderungen. 2005 , 15, 62-78		3
569	A fast spin echo two-point Dixon technique and its combination with sensitivity encoding for efficient T2-weighted imaging. 2005 , 23, 977-82		32
568	Proton MR spectroscopy of adult-onset dentatorubral-pallidoluysian atrophy. 2005 , 4, 123-7		4
567	Techniques MRS, fMRI, 13C NMR, Indirect Detection of 13C. 2005 , 31-52		
566	Coronary Artery Disease. 2005 , 381-437		1
565	Current Clinical Applications of In Vivo Magnetic Resonance Spectroscopy and Spectroscopic Imaging. 2005 , 1, 271-302		5
564	Decreased cerebellar total creatine in episodic ataxia type 2: a 1H MRS study. 2005 , 64, 542-4		15
563	In vivomagnetic resonance imaging: insights into structure and function of the central nervous system. 2005 , 16, R17-R36		6
562	Congenital muscular dystrophy with merosin deficiency: 1H MR spectroscopy and diffusion-weighted MR imaging. 2005 , 235, 190-6		20
561	Noninvasive thermometry using hyperfine-shifted MR signals from paramagnetic lanthanide complexes. 2005 , 21, 561-74		24
560	Multiple subsets of side-chain packing in partially folded states of alpha-lactalbumins. 2005 , 102, 8899-904		62
559	Molecular Imaging of Cancer: Applications of Magnetic Resonance Methods. 2005 , 93, 784-799		16
558	Quantitative neuropathologic correlates of changes in ratio of N-acetylaspartate to creatine in macaque brain. 2005 , 235, 461-8		46

557	Fat quantification using three-point dixon technique: in vitro validation. 2005 , 12, 636-9	49
556	In vivo and ex vivo proton MR spectroscopy of primary and secondary melanoma. 2005 , 53, 506-13	22
555	¹ H MRS studies in the Finnish boron neutron capture therapy project: detection of ¹⁰ B-carrier, L-p-boronophenylalanine-fructose. 2005 , 56, 154-9	6
554	Acute regulation of steady-state GABA levels following GABA-transaminase inhibition in rat cerebral cortex. 2006 , 48, 508-14	31
553	Multinuclear Magnetic Resonance Spectroscopic Imaging. 2006 ,	1
552	A novel magnetic resonance-based method to measure gene expression in living cells. 2006 , 34, e51	14
551	[Assessment of image display of contrast enhanced T1W images with fat suppression]. 2006 , 62, 513-21	
550	Measurement of in vivo multi-component T2 relaxation times for brain tissue using multi-slice T2 prep at 1.5 and 3 T. 2006 , 24, 33-43	113
549	In vivo proton MR spectroscopy of the human brain. 2006 , 49, 99-128	93
548	New insights into the neuroimmunity of SIV infection by magnetic resonance spectroscopy. 2006 , 1, 152-9	8
547	Preliminary findings of proton magnetic resonance spectroscopy in occipital cortex during sleep deprivation. 2006 , 147, 41-6	10
546	Single voxel proton magnetic resonance spectroscopy in post-stroke depression. 2006 , 148, 111-20	61
545	Non-invasive temperature imaging with thulium 1,4,7,10-tetraazacyclododecane-1,4,7,10-tetramethyl-1,4,7,10-tetraacetic acid (TmDOTMA-). 2006 , 19, 116-24	28
544	Single breath-hold whole-heart MRA using variable-density spirals at 3T. <i>Magnetic Resonance in Medicine</i> , 2006 , 55, 371-9	4.4 66
543	Novel ¹ H NMR approach to quantitative tissue oximetry using hexamethyldisiloxane. <i>Magnetic Resonance in Medicine</i> , 2006 , 55, 743-8	4.4 58
542	Robust quantification of short echo time ¹ H magnetic resonance spectra using the Pad $\hat{=}$ approximant. <i>Magnetic Resonance in Medicine</i> , 2006 , 55, 762-71	4.4 12
541	Toward quantitative short-echo-time in vivo proton MR spectroscopy without water suppression. <i>Magnetic Resonance in Medicine</i> , 2006 , 55, 1441-6	4.4 44
540	High-resolution MAS NMR spectroscopy detection of the spin magnetization exchange by cross-relaxation and chemical exchange in intact cell lines and human tissue specimens. <i>Magnetic Resonance in Medicine</i> , 2006 , 55, 1246-56	4.4 41

539	Three-dimensional MRI with an undersampled spherical shells trajectory. <i>Magnetic Resonance in Medicine</i> , 2006 , 56, 553-62	4.4	13
538	Musculoskeletal tumors: use of proton MR spectroscopic imaging for characterization. <i>Journal of Magnetic Resonance Imaging</i> , 2006 , 23, 23-8	5.6	55
537	Magnetic resonance spectroscopy detects biochemical changes in the brain associated with chronic low back pain: a preliminary report. 2006 , 102, 1164-8		49
536	Magnetic resonance spectroscopy (MRS) in the investigation of cancer at The Royal Marsden Hospital and The Institute of Cancer Research. <i>Physics in Medicine and Biology</i> , 2006 , 51, R61-82	3.8	12
535	In vivo quantification of ethanol kinetics in rat brain. 2006 , 31, 2683-91		26
534	MR pulse sequences: what every radiologist wants to know but is afraid to ask. 2006 , 26, 513-37		192
533	Development and resolution of brain lesions caused by pyriethamine- and dietary-induced thiamine deficiency and alcohol exposure in the alcohol-preferring rat: a longitudinal magnetic resonance imaging and spectroscopy study. 2007 , 32, 1159-77		42
532	Increased anterior cingulate/medial prefrontal cortical glutamate and creatine in bipolar depression. 2007 , 32, 2490-9		183
531	Association between cortical metabolite levels and clinical manifestations of migrainous aura: an MR-spectroscopy study. 2007 , 130, 3102-10		35
530	Memantine and HIV-associated cognitive impairment: a neuropsychological and proton magnetic resonance spectroscopy study. 2007 , 21, 1877-86		109
529	In vivo proton MR spectroscopy of the breast. 2007 , 27 Suppl 1, S253-66		58
528	Frahm, Jens: Toward Rapid NMR Imaging. 2007 ,		
527	Basic magnetic resonance imaging principles used for evaluating animal patients with neurologic disease. 2007 , 10, 909-25, vii		3
526	Assessment of injury to the thoracolumbar posterior ligamentous complex in the setting of normal-appearing plain radiography. 2007 , 7, 422-7		85
525	70 Years Ago in Spine. 2007 , 7, 427		
524	Anisotropy and temperature dependence of myoglobin translational diffusion in myocardium: implication for oxygen transport and cellular architecture. 2007 , 92, 2608-20		34
523	Magnetic resonance-based visualization of gene expression in mammalian cells using a bacterial polyphosphate kinase reporter gene. 2007 , 42, 209-15		4
522	Field Gradients and Their Application. 2007 ,		

521	In Vivo NMR Spectroscopy (Dynamic Aspects). 111-190		1
520	Single Volume Localization and Water Suppression. 297-348		3
519	Spectral Editing and Two-Dimensional NMR. 389-444		
518	Magnetic resonance spectroscopy (MRS) and its application in Alzheimer's disease. 2007 , 30A, 40-64		36
517	Sensitivity-encoded (SENSE) proton echo-planar spectroscopic imaging (PEPSI) in the human brain. <i>Magnetic Resonance in Medicine</i> , 2007 , 57, 249-57	4.4	71
516	Dynamically shimmed multivoxel 1H magnetic resonance spectroscopy and multislice magnetic resonance spectroscopic imaging of the human brain. <i>Magnetic Resonance in Medicine</i> , 2007 , 57, 587-91	4.4	38
515	Fast mapping of the T2 relaxation time of cerebral metabolites using proton echo-planar spectroscopic imaging (PEPSI). <i>Magnetic Resonance in Medicine</i> , 2007 , 57, 859-65	4.4	29
514	Fast decomposition of water and lipid using a GRASE technique with the IDEAL algorithm. <i>Magnetic Resonance in Medicine</i> , 2007 , 57, 1047-57	4.4	23
513	2D arbitrary shape-selective excitation summed spectroscopy (ASSESS). <i>Magnetic Resonance in Medicine</i> , 2007 , 58, 19-26	4.4	23
512	Magnetic resonance imaging with ultrashort TE (UTE) PULSE sequences: technical considerations. <i>Journal of Magnetic Resonance Imaging</i> , 2007 , 25, 279-89	5.6	164
511	Whole-body 3D water/fat resolved continuously moving table imaging. <i>Journal of Magnetic Resonance Imaging</i> , 2007 , 25, 660-5	5.6	30
510	Interleaved water and fat imaging and applications to lipid quantitation using the gradient reversal technique. <i>Journal of Magnetic Resonance Imaging</i> , 2007 , 26, 1064-70	5.6	6
509	Black-blood imaging of the human heart using rapid stimulated echo acquisition mode (STEAM) MRI. <i>Journal of Magnetic Resonance Imaging</i> , 2007 , 26, 1666-71	5.6	4
508	A practical guide to robust detection of GABA in human brain by J-difference spectroscopy at 3 T using a standard volume coil. 2007 , 25, 1032-8		97
507	Incorporating homonuclear polarization transfer into PRESS for proton spectral editing: illustration with lactate and glutathione. 2007 , 188, 111-21		5
506	Myoglobin translational diffusion in rat myocardium and its implication on intracellular oxygen transport. 2007 , 578, 595-603		43
505	Multislice brain myelin water fractions at 3T in multiple sclerosis. 2007 , 17, 156-63		62
504	Reduced concentrations of N-acetylaspartate (NAA) and the NAA-creatine ratio in the basal ganglia in bipolar disorder: a study using 3-Tesla proton magnetic resonance spectroscopy. 2007 , 154, 259-65		38

503	Exploiting the chemical shift displacement effect in the detection of glutamate and glutamine (Glx) with PRESS. 2008 , 191, 120-7		16
502	The basal ganglia: a substrate for fatigue in multiple sclerosis. 2008 , 50, 17-23		76
501	A paradoxical signal intensity increase in fatty livers using opposed-phase gradient echo imaging with fat-suppression pulses. 2008 , 38, 1099-104		1
500	A single-point Dixon technique for fat-suppressed fast 3D gradient-echo imaging with a flexible echo time. <i>Journal of Magnetic Resonance Imaging</i> , 2008 , 27, 881-90	5.6	33
499	Estrogen receptor and breast MR imaging features: a correlation study. <i>Journal of Magnetic Resonance Imaging</i> , 2008 , 27, 825-33	5.6	55
498	Principles of whole-body continuously-moving-table MRI. <i>Journal of Magnetic Resonance Imaging</i> , 2008 , 28, 1-12	5.6	32
497	Monitoring of early response to neoadjuvant chemotherapy in breast cancer with (1)H MR spectroscopy: comparison to sequential 2-[18F]-fluorodeoxyglucose positron emission tomography. <i>Journal of Magnetic Resonance Imaging</i> , 2008 , 28, 420-7	5.6	34
496	Reproducible MRI measurement of adipose tissue volumes in genetic and dietary rodent obesity models. <i>Journal of Magnetic Resonance Imaging</i> , 2008 , 28, 915-27	5.6	19
495	J-difference lactate editing at 3.0 Tesla in the presence of strong lipids. <i>Journal of Magnetic Resonance Imaging</i> , 2008 , 28, 1492-8	5.6	18
494	SELOVS: brain MRSI localization based on highly selective T1- and B1- insensitive outer-volume suppression at 3T. <i>Magnetic Resonance in Medicine</i> , 2008 , 59, 40-51	4.4	39
493	Anatomically constrained reconstruction from noisy data. <i>Magnetic Resonance in Medicine</i> , 2008 , 59, 810-8	4.4	79
492	Fast parallel spiral chemical shift imaging at 3T using iterative SENSE reconstruction. <i>Magnetic Resonance in Medicine</i> , 2008 , 59, 891-7	4.4	23
491	Quantitative magnetic resonance spectroscopy in the entire human cervical spinal cord and beyond at 3T. <i>Magnetic Resonance in Medicine</i> , 2008 , 59, 1250-8	4.4	42
490	Reproducibility study of whole-brain 1H spectroscopic imaging with automated quantification. <i>Magnetic Resonance in Medicine</i> , 2008 , 60, 542-7	4.4	23
489	Multiecho water-fat separation and simultaneous R2* estimation with multifrequency fat spectrum modeling. <i>Magnetic Resonance in Medicine</i> , 2008 , 60, 1122-34	4.4	497
488	Proton imaging of siloxanes to map tissue oxygenation levels (PISTOL): a tool for quantitative tissue oximetry. 2008 , 21, 899-907		49
487	Single-point Dixon water-fat imaging using 64-channel single-echo acquisition MRI. 2008 , 33B, 152-162		1
486	Compensation of gradient-induced magnetic field perturbations. 2008 , 192, 209-17		27

485	Fat-saturated MR imaging in the detection of inflammatory facet arthropathy (facet synovitis) in the lumbar spine. 2008 , 9, 400-6	38
484	The osteoarthritis initiative (OAI) magnetic resonance imaging quality assurance methods and results. 2008 , 16, 994-1004	49
483	Direct (1)H NMR spectroscopy of dissolved organic matter in natural waters. 2008 , 133, 263-9	98
482	Imaging in Pediatric Skeletal Trauma. 2008 ,	8
481	Basics of Magnetic Resonance Imaging and Magnetic Resonance Spectroscopy. 2008 , 3-167	11
480	Further development in anatomically constrained MR image reconstruction: application to multimodal imaging of mouse stroke. 2008 , 2008, 422-5	3
479	A phantom to assess the accuracy of tumor delineation using MRSI. 2008 , 42,	5
478	Magnetic resonance spectroscopic imaging and other emerging magnetic resonance techniques in prostate cancer. 158-176	
477	Statistical modeling and MAP estimation for body fat quantification with MRI ratio imaging. 2008 ,	
476	Improvement after cerebrospinal fluid drainage is related to levels of N-acetyl-aspartate in idiopathic normal pressure hydrocephalus. 2008 , 62, 135-41, discussion 141-2	16
475	Magnetic Resonance Imaging and Its Usage in Representative Areas of Neurobiological Research. 2008 , 5, 39-48	1
474	Fundamentals of MR spectroscopy. 5-20	
473	Predicting pathologic response to neoadjuvant chemotherapy in breast cancer by using MR imaging and quantitative 1H MR spectroscopy. 2009 , 251, 653-62	111
472	Recurrent antecedent hypoglycemia alters neuronal oxidative metabolism in vivo. 2009 , 58, 1266-74	34
471	Prefrontal myo-inositol concentration and visuospatial functioning among diabetic depressed patients. 2009 , 171, 10-9	19
470	In vivo proton magnetic resonance spectroscopy reveals region specific metabolic responses to SIV infection in the macaque brain. 2009 , 10, 63	34
469	Proton magnetic resonance spectroscopy in suspected vascular ischemic parkinsonism. 1994 , 90, 405-11	11
468	Development of a QA phantom and protocol for proton magnetic resonance spectroscopy. 2009 , 35B, 168-179	5

467	Spectral resolution amelioration by deconvolution (SPREAD) in MR spectroscopic imaging. <i>Journal of Magnetic Resonance Imaging</i> , 2009 , 29, 1395-405	5.6	16
466	(1)H spectroscopic imaging of human brain at 3 Tesla: comparison of fast three-dimensional magnetic resonance spectroscopic imaging techniques. <i>Journal of Magnetic Resonance Imaging</i> , 2009 , 30, 473-80	5.6	37
465	MRI: a charmed past and an exciting future. <i>Journal of Magnetic Resonance Imaging</i> , 2009 , 30, 919-23	5.6	14
464	Turboprop IDEAL: a motion-resistant fat-water separation technique. <i>Magnetic Resonance in Medicine</i> , 2009 , 61, 188-95	4.4	21
463	B1 and T1 insensitive water and lipid suppression using optimized multiple frequency-selective preparation pulses for whole-brain 1H spectroscopic imaging at 3T. <i>Magnetic Resonance in Medicine</i> , 2009 , 61, 462-6	4.4	16
462	Rapid water and lipid imaging with T2 mapping using a radial IDEAL-GRASE technique. <i>Magnetic Resonance in Medicine</i> , 2009 , 61, 1415-24	4.4	21
461	Absolute temperature MR imaging with thulium 1,4,7,10-tetraazacyclododecane-1,4,7,10-tetramethyl-1,4,7,10-tetraacetic acid (TmDOTMA-). <i>Magnetic Resonance in Medicine</i> , 2009 , 62, 550-6	4.4	19
460	High dynamic-range magnetic resonance spectroscopy (MRS) time-domain signal analysis. <i>Magnetic Resonance in Medicine</i> , 2009 , 62, 1026-35	4.4	5
459	Proton MRS detects metabolic changes in hormone sensitive and resistant human prostate cancer models CWR22 and CWR22r. <i>Magnetic Resonance in Medicine</i> , 2009 , 62, 1112-9	4.4	18
458	Robust water/fat separation in the presence of large field inhomogeneities using a graph cut algorithm. <i>Magnetic Resonance in Medicine</i> , 2010 , 63, 79-90	4.4	194
457	Evaluation of dystrophic dog pathology by fat-suppressed T2-weighted imaging. 2009 , 40, 815-26		32
456	k-space analysis of point-resolved spectroscopy (PRESS) with regard to spurious echoes in in vivo (1)H MRS. 2009 , 22, 137-47		10
455	Proton MRS of the breast in the clinical setting. 2009 , 22, 54-64		48
454	Slice-selective FID acquisition, localized by outer volume suppression (FIDLOVS) for (1)H-MRSI of the human brain at 7 T with minimal signal loss. 2009 , 22, 683-96		113
453	Magnetic resonance spectroscopy shows an inverse correlation between intramyocellular lipid content in human calf muscle and local glycogen synthesis rate. 2010 , 23, 133-41		7
452	Quantitative in vivo 1H spectroscopic imaging of metabolites in the early postnatal mouse brain at 17.6 T. 2009 , 22, 53-62		16
451	Elliptical magnetic resonance spectroscopic imaging with GRAPPA for imaging brain tumors at 3 T. 2009 , 27, 1319-25		11
450	Refolding of ribonuclease A monitored by real-time photo-CIDNP NMR spectroscopy. 2009 , 44, 77-86		8

449	The effect of ethanol on human brain metabolites longitudinally characterized by proton MR spectroscopy. 2009 , 29, 891-902	25
448	Fat and water 1H MRI to investigate effects of leptin in obese mice. 2009 , 17, 2089-93	8
447	In situ 3D magnetic resonance metabolic imaging of microwave-irradiated rodent brain: a new tool for metabolomics research. 2009 , 109, 494-501	36
446	3D sensitivity encoded ellipsoidal MR spectroscopic imaging of gliomas at 3T. 2009 , 27, 1249-57	16
445	Optimization of static magnetic field homogeneity in the human and animal brain in vivo. 2009 , 54, 69-96	40
444	Detection of glutamate and glutamine (Glx) by turbo spectroscopic imaging. 2009 , 196, 170-7	7
443	Measurement of the apparent diffusivity of ethylene glycol in mouse ovaries through rapid MRI and theoretical investigation of cryoprotectant perfusion procedures. 2009 , 58, 298-302	7
442	Magnetic Resonance Imaging. 2009 , 34-48	6
441	Chemical shift selective fat imaging using transition into driven equilibrium balanced steady-state free precession for quantification of adipose tissue. 2009 , 33, 475-80	
440	[Development of fat suppressed three-dimensional T1-weighted image using linear filling order for K-space]. 2009 , 65, 585-93	
439	Breast Magnetic Resonance Spectroscopy (MRS). 2009 ,	2
438	Target immobilization and NMR screening of fragments in early drug discovery. 2009 , 9, 1736-45	13
437	In vivo magnetic resonance spectroscopy: basic methodology and clinical applications. 2010 , 39, 527-40	156
436	Adaptive metabolic changes in CADASIL white matter. 2010 , 257, 171-7	6
435	Cerebellar glucose during fasting and acute hyperglycemia in nondiabetic men and in men with type 1 diabetes. 2010 , 9, 336-44	18
434	Effects of antidepressant treatment on N-acetyl aspartate and choline levels in the hippocampus and thalami of post-stroke depression patients: a study using (1)H magnetic resonance spectroscopy. 2010 , 182, 48-52	46
433	Fat and water magnetic resonance imaging. <i>Journal of Magnetic Resonance Imaging</i> , 2010 , 31, 4-18	5.6 238
432	Predicting pathological response to neoadjuvant chemotherapy in breast cancer with quantitative 1H MR spectroscopy using the external standard method. <i>Journal of Magnetic Resonance Imaging</i> , 2010 , 31, 895-902	5.6 56

431	T(2)-weighted 3D fast spin echo imaging with water-fat separation in a single acquisition. <i>Journal of Magnetic Resonance Imaging</i> , 2010 , 32, 745-51	5.6	25
430	Spiral water-fat imaging with integrated off-resonance correction on a clinical scanner. <i>Journal of Magnetic Resonance Imaging</i> , 2010 , 32, 1262-7	5.6	16
429	Combined off-resonance imaging and T2 relaxation in the rotating frame for positive contrast MR imaging of infection in a murine burn model. <i>Journal of Magnetic Resonance Imaging</i> , 2010 , 32, 1172-83	5.6	9
428	Spatially varying fat-water excitation using short 2DRF pulses. <i>Magnetic Resonance in Medicine</i> , 2010 , 63, 1092-7	4.4	6
427	Dual-band water and lipid suppression for MR spectroscopic imaging at 3 Tesla. <i>Magnetic Resonance in Medicine</i> , 2010 , 63, 1486-92	4.4	30
426	A simple low-SAR technique for chemical-shift selection with high-field spin-echo imaging. <i>Magnetic Resonance in Medicine</i> , 2010 , 64, 319-26	4.4	22
425	Compressed sensing for chemical shift-based water-fat separation. <i>Magnetic Resonance in Medicine</i> , 2010 , 64, 1749-59	4.4	52
424	Solvent signal suppression in NMR. 2010 , 56, 267-88		93
423	Quantitative magnetic resonance spectroscopic imaging in Parkinson's disease, progressive supranuclear palsy and multiple system atrophy. 2010 , 17, 1193-1202		31
422	In vivo neurochemical profiling of rat brain by ¹ H-[¹³ C] NMR spectroscopy: cerebral energetics and glutamatergic/GABAergic neurotransmission. 2010 , 112, 24-33		41
421	Haase, Axel: From Rapid NMR Imaging to Quantification. 2010 ,		
420	Current Status and Future Prospects of Proton MR Spectroscopy of the Breast with a 1.5T MR Unit. 2010 , 2010,		1
419	Rice pads: novel devices for homogeneous fat suppression in the knee. 2010 , 51, 175-8		13
418	A method for fat suppression in MRI based on diffusion-weighted imaging. <i>Physics in Medicine and Biology</i> , 2010 , 55, N547-55	3.8	1
417	Inhibitor of DNA binding 4 (ID4) regulation of adipocyte differentiation and adipose tissue formation in mice. 2010 , 285, 24164-73		21
416	Controlled radio-frequency hyperthermia using an MR scanner and simultaneous monitoring of temperature and therapy response by (¹ H), (²³ Na) and (³¹ P) magnetic resonance spectroscopy in subcutaneously implanted 9L-gliosarcoma. 2010 , 26, 79-90		16
415	¹ H MR spectroscopy of invasive ductal carcinoma: correlations with FDG PET and histologic prognostic factors. 2010 , 194, 1384-90		20
414	Multiparametric magnetic resonance imaging, spectroscopy and multinuclear (²³ Na) imaging monitoring of preoperative chemotherapy for locally advanced breast cancer. 2010 , 17, 1477-85		42

413	Neurospectroscopy: the past, present and future. 2010 , 110, 3060-86		80
412	Functional role of ipsilateral motor areas in multiple sclerosis. 2011 , 82, 578-83		20
411	Methods of Cancer Diagnosis, Therapy, and Prognosis. 2011 ,		
410	Magnetic Resonance Neuroimaging. 2011 ,		7
409	Coronary Artery Diseases. 2011 , 511-551		
408	In vivo magnetic resonance spectroscopy of liver tumors and metastases. 2011 , 17, 5133-49		31
407	Field Gradients and Their Application. 2011 ,		
406	Combination of two fat saturation pulses improves detectability of glucose signals in carbon-13 MR spectroscopy. 2011 , 87, 425-30		
405	Multi-dimensional MR spectroscopy: towards a better understanding of hepatic encephalopathy. 2011 , 26, 173-84		28
404	Degraded water suppression in small volume ¹ H MRS due to localised shimming. 2011 , 24, 97-107		12
403	Volumetric fat-water separated T2-weighted MRI. 2011 , 41, 875-83		6
402	NMR techniques in biomedical and pharmaceutical analysis. 2011 , 55, 1-15		104
401	Dual-echo Dixon imaging with flexible choice of echo times. <i>Magnetic Resonance in Medicine</i> , 2011 , 65, 96-107	4.4	234
400	Removal of olefinic fat chemical shift artifact in diffusion MRI. <i>Magnetic Resonance in Medicine</i> , 2011 , 65, 692-701	4.4	50
399	Two-point dixon method with flexible echo times. <i>Magnetic Resonance in Medicine</i> , 2011 , 65, 994-1004	4.4	68
398	Regularized iterative reconstruction for undersampled BLADE and its applications in three-point Dixon water-fat separation. <i>Magnetic Resonance in Medicine</i> , 2011 , 65, 1314-25	4.4	11
397	Volume localized shift selective ¹³ C spectroscopy using pulsed rotating frame transfer sequences with windows (PRAWN). <i>Magnetic Resonance in Medicine</i> , 2011 , 66, 1209-17	4.4	1
396	Robust fat suppression at 3T in high-resolution diffusion-weighted single-shot echo-planar imaging of human brain. <i>Magnetic Resonance in Medicine</i> , 2011 , 66, 1658-65	4.4	16

395	Clinical characteristics and biomarkers of breast cancer associated with choline concentration measured by 1H MRS. 2011 , 24, 316-24	39
394	Anterior cingulate and cerebellar GABA and Glu correlations measured by ^1H J-difference spectroscopy. 2011 , 29, 19-24	50
393	T1-weighted fat-suppressed imaging of the pelvis with a dual-echo Dixon technique: initial clinical experience. 2011 , 258, 583-9	21
392	Apparent diffusion coefficients of metabolites in patients with MELAS using diffusion-weighted MR spectroscopy. 2011 , 32, 898-902	15
391	Quantification of liver fat in mice: comparing dual-echo Dixon imaging, chemical shift imaging, and 1H-MR spectroscopy. 2011 , 52, 1847-55	23
390	Serial magnetic resonance spectroscopy reveals a direct metabolic effect of cediranib in glioblastoma. 2011 , 71, 3745-52	44
389	Basic Principles of Magnetic Resonance Imaging. 2012 , 581-609	
388	A historical overview of magnetic resonance imaging, focusing on technological innovations. 2012 , 47, 725-41	43
387	Real-time MRI: recent advances using radial FLASH. 2012 , 4, 461-476	35
386	Spectroscopie de la maturation c^1r^1 brale et de ses anomalies. 2012 , 7, 1-17	
385	Multinuclear Magnetic Resonance Spectroscopic Imaging Update based on the original article by Todd Richards, Encyclopedia of Analytical Chemistry, r 2000, John Wiley & Sons Ltd.. 2012 ,	
384	The effect of age and cerebral ischemia on diffusion-weighted proton MR spectroscopy of the human brain. 2012 , 33, 563-8	20
383	Diffusion-Weighted Imaging: Acquisition and Biophysical Basis. 2012 , 1-15	1
382	Quantitative analysis in magnetic resonance spectroscopy: from metabolic profiling to in vivo biomarkers. 2012 , 4, 321-41	53
381	Cardiovascular magnetic resonance physics for clinicians: Part II. 2012 , 14, 66	62
380	Intravenous ethanol infusion decreases human cortical G^1 aminobutyric acid and N-acetylaspartate as measured with proton magnetic resonance spectroscopy at 4 tesla. 2012 , 71, 239-46	65
379	Skeletal muscle lipid metabolism studied by advanced magnetic resonance spectroscopy. 2012 , 65, 66-76	9
378	In Vivo Magnetic Resonance Spectroscopic Imaging and Ex Vivo Quantitative Neuropathology by High Resolution Magic Angle Spinning Proton Magnetic Resonance Spectroscopy. 2012 , 329-365	2

377	Diagnostic value of breast proton magnetic resonance spectroscopy at 1.5T in different histopathological types. 2012 , 2012, 508295		18
376	Quantitative ³¹ P magnetic resonance spectroscopy of the human breast at 7 T. <i>Magnetic Resonance in Medicine</i> , 2012 , 68, 339-48	4.4	40
375	R*(2) mapping in the presence of macroscopic B ₁ field variations. <i>Magnetic Resonance in Medicine</i> , 2012 , 68, 830-40	4.4	67
374	Diffusion of small molecules in a chitosan/water gel determined by proton localized NMR spectroscopy. 2012 , 368, 14-20		9
373	Correction of chemical shift misregistration by images from two different bandwidths. 2012 , 30, 583-8		
372	The fast spiral-SelMQC technique for in vivo MR spectroscopic imaging of polyunsaturated fatty acids in human breast tissue. <i>Magnetic Resonance in Medicine</i> , 2012 , 67, 8-19	4.4	5
371	Fast fat suppression RF pulse train with insensitivity to B ₁ inhomogeneity for body imaging. <i>Magnetic Resonance in Medicine</i> , 2012 , 67, 464-9	4.4	10
370	Chemical shift encoded water-fat separation using parallel imaging and compressed sensing. <i>Magnetic Resonance in Medicine</i> , 2013 , 69, 456-66	4.4	18
369	In vivo MRS and histochemistry of status epilepticus-induced hippocampal pathology in a juvenile model of temporal lobe epilepsy. 2013 , 26, 132-40		9
368	Nuclear magnetic resonance imaging of lipid in living plants. 2013 , 52, 465-87		29
367	Photo-CIDNP NMR spectroscopy of amino acids and proteins. 2013 , 338, 229-300		22
366	Frequency-Selective Fat Suppression Radiofrequency Pulse Train to Remove Olefinic Fats. 2013 , 44, 1213-12214		
365	Comparison of the effects of the CHESS sequence and the SPAIR sequence for fat saturation. 2013 , 62, 1702-1707		
364	Proton magnetic resonance spectroscopy: technique for the neuroradiologist. 2013 , 23, 381-92		43
363	Quantitative proton MR techniques for measuring fat. 2013 , 26, 1609-29		93
362	Real-time automated spectral assessment of the BOLD response for neurofeedback at 3 and 7T. 2013 , 218, 148-60		11
361	Quantification of cervical spine muscle fat: a comparison between T1-weighted and multi-echo gradient echo imaging using a variable projection algorithm (VARPRO). 2013 , 13, 30		28
360	R2* estimation using "in-phase" echoes in the presence of fat: the effects of complex spectrum of fat. <i>Journal of Magnetic Resonance Imaging</i> , 2013 , 37, 717-26	5.6	32

359	In vivo magnetic resonance spectroscopy detection of combined glutamate-glutamine in healthy upper cervical cord at 3 T. 2013 , 26, 357-66		17
358	Lingering fat signals with CHESS in simultaneous imaging of both hands can be improved with rice pads in both 1.5T and 3.0T. 2013 , 82, 1458-62		1
357	Magnetic resonance spectroscopy of the brain. 2013 , 89, 94-106		33
356	Fat suppression strategies in MR imaging of breast cancer at 3.0 T: comparison of the two-point Dixon technique and the frequency selective inversion method. 2013 , 31, 615-22		5
355	(1)H-MR spectroscopy for analysis of cardiac lipid and creatine metabolism. 2013 , 18, 657-68		29
354	Metabolic changes in the spinal cord after brachial plexus root re-implantation. 2013 , 27, 118-24		17
353	Renal lipids and oxygenation in diabetic mice: noninvasive quantification with MR imaging. 2013 , 269, 748-57		30
352	Science to practice: Renal hypoxia and fat deposition in diabetic neuropathy--new insights with functional renal MR imaging. 2013 , 269, 625-6		5
351	Complete fat suppression radiofrequency pulse train to remove both aliphatic and olefinic fats. 2013 , 42, 109-115		
350	Multipeak fat-corrected complex R2* relaxometry: theory, optimization, and clinical validation. <i>Magnetic Resonance in Medicine</i> , 2013 , 70, 1319-31	4.4	91
349	(1)H-MR spectroscopy in the human spinal cord. 2013 , 34, 1682-9		29
348	Longitudinal relaxation enhancement in 1H NMR spectroscopy of tissue metabolites via spectrally selective excitation. 2013 , 19, 13002-8		18
347	Proton Magnetic Resonance Spectroscopy of the Central Nervous System. 2013 ,		5
346	Fundamentals of MRI for assessing brain function and metabolism. 22-30		
345	The role of neuroimaging in sleep and sleep disorders. 1-7		
344	Comparison of real-time water proton spectroscopy and echo-planar imaging sensitivity to the BOLD effect at 3 T and at 7 T. 2014 , 9, e91620		7
343	Advances in high-field magnetic resonance spectroscopy in Alzheimer's disease. 2014 , 11, 367-88		22
342	Flour pads: devices to improve CHESS fat suppression. 2014 , 13, 33-8		2

341	Magnetic Resonance Imaging. 2014 , 73-262		1
340	Longitudinal evaluation of the metabolic response of a tumor xenograft model to single fraction radiation therapy using magnetic resonance spectroscopy. <i>Physics in Medicine and Biology</i> , 2014 , 59, 5061-72	3.8	4
339	Technical Considerations for Multivoxel Approaches and Magnetic Resonance Spectroscopic Imaging. 2014 , 31-39		1
338	Localized Single-Voxel Magnetic Resonance Spectroscopy, Water Suppression, and Novel Approaches for Ultrashort Echo-Time Measurements. 2014 , 15-30		2
337	Fundamentals of MR Spectroscopy. 2014 , 257-271		1
336	Improved slice-selective adiabatic excitation. <i>Magnetic Resonance in Medicine</i> , 2014 , 71, 75-82	4.4	11
335	The history of MR imaging as seen through the pages of radiology. 2014 , 273, S181-200		64
334	Detection of cerebral NAD(+) by in vivo (1)H NMR spectroscopy. 2014 , 27, 802-9		29
333	Generalized RF Pulse Train with Insensitivity to B 1 Inhomogeneity. 2014 , 45, 1405-1416		
332	Water-selective excitation of short T2 species with binomial pulses. <i>Magnetic Resonance in Medicine</i> , 2014 , 72, 800-5	4.4	7
331	Characterization of trabecular bone density with ultra-short echo-time MRI at 1.5, 3.0 and 7.0 T--comparison with micro-computed tomography. 2014 , 27, 1159-66		24
330	Water-fat separation imaging of the heart with standard magnetic resonance bSSFP CINE imaging. <i>Magnetic Resonance in Medicine</i> , 2014 , 71, 2096-104	4.4	5
329	Three-dimensional Hadamard-encoded proton spectroscopic imaging in the human brain using time-cascaded pulses at 3 Tesla. <i>Magnetic Resonance in Medicine</i> , 2014 , 72, 923-33	4.4	5
328	Compensation of signal loss due to cardiac motion in point-resolved spectroscopy of the heart. <i>Magnetic Resonance in Medicine</i> , 2014 , 72, 1201-7	4.4	15
327	Chemical shift encoding-based water-fat separation methods. <i>Journal of Magnetic Resonance Imaging</i> , 2014 , 40, 251-68	5.6	69
326	Fast image reconstruction with L2-regularization. <i>Journal of Magnetic Resonance Imaging</i> , 2014 , 40, 181-91	3.6	90
325	Diagnosis and Characterization of Brain Tumors: MR Spectroscopic Imaging. 2014 , 39-55		1
324	Single Voxel MR Spectroscopy in the Spinal Cord: Technical Challenges and Clinical Applications. 2014 , 267-290		

323	Comparison of fat saturation techniques for single-shot fast spin echo sequences for 7-T body imaging. 2014 , 49, 101-8		3
322	Metabolic evidence for cerebral neurodegeneration in spinocerebellar ataxia type 1. 2014 , 13, 199-206		11
321	IFN-alpha-induced cortical and subcortical glutamate changes assessed by magnetic resonance spectroscopy. 2014 , 39, 1777-85		107
320	High-field small animal magnetic resonance oncology studies. <i>Physics in Medicine and Biology</i> , 2014 , 59, R65-R127	3.8	10
319	Chemistry and biochemistry of ¹³ C hyperpolarized magnetic resonance using dynamic nuclear polarization. 2014 , 43, 1627-59		254
318	Functional Brain Tumor Imaging. 2014 ,		1
317	A novel approach for baseline correction in ¹ H-MRS signals based on ensemble empirical mode decomposition. 2014 , 2014, 3196-9		4
316	Fat signal suppression for coronary MRA at 3T using a water-selective adiabatic T ₂ -preparation technique. <i>Magnetic Resonance in Medicine</i> , 2014 , 72, 763-9	4.4	11
315	Measurement of human optic nerve's diameter using magnetic resonance imaging (MRI) images. 2014 ,		1
314	Quantification of hepatic fat and iron with magnetic resonance imaging. 2014 , 22, 397-416		12
313	Metabolic T ₁ dynamics and longitudinal relaxation enhancement in vivo at ultrahigh magnetic fields on ischemia. 2014 , 34, 1810-7		9
312	Interfacial tension measurements using MRI drop shape analysis. 2014 , 30, 1566-72		9
311	Optimized multiple-quantum filter for robust selective excitation of metabolite signals. 2014 , 243, 8-16		6
310	Quantification of liver iron with MRI: state of the art and remaining challenges. <i>Journal of Magnetic Resonance Imaging</i> , 2014 , 40, 1003-21	5.6	157
309	Fat-suppression techniques for 3-T MR imaging of the musculoskeletal system. 2014 , 34, 217-33		201
308	Water/fat-resolved whole-heart Dixon coronary MRA: an initial comparison. <i>Magnetic Resonance in Medicine</i> , 2014 , 71, 156-63	4.4	31
307	Homogenous fat suppression for bilateral breast imaging using independent shims. <i>Magnetic Resonance in Medicine</i> , 2014 , 71, 1511-7	4.4	5
306	Four dimensional spectral-spatial fat saturation pulse design. <i>Magnetic Resonance in Medicine</i> , 2014 , 72, 1637-47	4.4	3

305	A single phantom to mimic ¹ H MR spectra of different tissues. 2014 , 43, 138-145		1
304	Magnetic resonance imaging of the phase separation in mixed preparations of moisturizing cream and steroid ointment after centrifugation. 2015 , 63, 377-83		17
303	Single-Voxel MR Spectroscopy. 2015 , 709-720		3
302	Dixon-type and subtraction-type contrast-enhanced magnetic resonance angiography: A theoretical and experimental comparison of SNR and CNR. <i>Magnetic Resonance in Medicine</i> , 2015 , 74, 81-92	4.4	7
301	Comparison of brain gray and white matter macromolecule resonances at 3 and 7 Tesla. <i>Magnetic Resonance in Medicine</i> , 2015 , 74, 607-13	4.4	45
300	Simultaneous fat saturation and magnetization transfer contrast imaging with steady-state incoherent sequences. <i>Magnetic Resonance in Medicine</i> , 2015 , 74, 739-46	4.4	4
299	MRS: a noninvasive window into cardiac metabolism. 2015 , 28, 747-66		16
298	Lipid suppression for brain MRI and MRSI by means of a dedicated crusher coil. <i>Magnetic Resonance in Medicine</i> , 2015 , 73, 2062-8	4.4	34
297	Accelerated H MRSI using randomly undersampled spiral-based k-space trajectories. <i>Magnetic Resonance in Medicine</i> , 2015 , 74, 13-24	4.4	20
296	Free-running 4D whole-heart self-navigated golden angle MRI: Initial results. <i>Magnetic Resonance in Medicine</i> , 2015 , 74, 1306-16	4.4	74
295	Improving spectral quality in fetal brain magnetic resonance spectroscopy using constructive averaging. 2015 , 35, 1294-300		3
294	In vivo proton T1 relaxation times of mouse myocardial metabolites at 9.4 T. <i>Magnetic Resonance in Medicine</i> , 2015 , 73, 2069-74	4.4	7
293	Designing hyperbolic secant excitation pulses to reduce signal dropout in gradient-echo echo-planar imaging. <i>Magnetic Resonance in Medicine</i> , 2015 , 74, 661-72	4.4	11
292	Fat water decomposition using globally optimal surface estimation (GOOSE) algorithm. <i>Magnetic Resonance in Medicine</i> , 2015 , 73, 1289-99	4.4	25
291	Lipid elimination with an echo-shifting N/2-ghost acquisition (LEENA) MRI. <i>Magnetic Resonance in Medicine</i> , 2015 , 73, 711-7	4.4	3
290	Fat suppression techniques in breast magnetic resonance imaging: a critical comparison and state of the art. 2015 , 37		5
289	Proton MRS and MRSI of the brain without water suppression. 2015 , 86-87, 65-79		19
288	Technical advancements in MR neurography. 2015 , 19, 86-93		18

287	Quantitative evaluation of B1 insensitivity in nonadiabatic frequency-selective fat-suppression RF pulse techniques. 2015 , 25, 86-91			2
286	Bilateral breast MRI by use of dual-source parallel radiofrequency excitation and image-based shimming at 3 Tesla: improvement in homogeneity on fat-suppression imaging. 2015 , 8, 4-12			3
285	Magnetic resonance spectroscopy of the brain: a review of physical principles and technical methods. 2015 , 26, 609-32			67
284	Proton magnetic resonance spectroscopy reveals increased hepatic lipid content after a single high-fat meal with no additional modulation by added protein. 2015 , 101, 65-71			34
283	Optimizing water suppression for quantitative NMR-based metabolomics: a tutorial review. 2015 , 11, 1041-1055			59
282	Constrained Source Space MR Spectroscopy: Multiple Voxels, No Gradient Readout. 2015 , 36, 1436-43			0
281	Retrospective correction of motion induced artifacts in 1H magnetic resonance spectroscopy of the fetal brain. 2015 ,			3
280	Feasibility of MR spectroscopy for characterizing malignant breast lesions using a clinical 3-T scanner. 2015 , 22, 510-9			8
279	MRI-based myelin water imaging: A technical review. <i>Magnetic Resonance in Medicine</i> , 2015 , 73, 70-81	4.4		175
278	Advanced magnetic resonance techniques for evaluating white matter. 2015 , 02, 003-015			
277	Short-term cuprizone feeding verifies N-acetylaspartate quantification as a marker of neurodegeneration. 2015 , 55, 733-48			19
276	Removal of nuisance signals from limited and sparse 1H MRSI data using a union-of-subspaces model. <i>Magnetic Resonance in Medicine</i> , 2016 , 75, 488-97	4.4		33
275	Does fat suppression via chemically selective saturation affect R2*-MRI for transfusional iron overload assessment? A clinical evaluation at 1.5T and 3T. <i>Magnetic Resonance in Medicine</i> , 2016 , 76, 591-601	4.4		19
274	2D Pulses using spatially dependent frequency sweeping. <i>Magnetic Resonance in Medicine</i> , 2016 , 76, 1364-1374	4.4		7
273	A semiadiabatic spectral-spatial spectroscopic imaging (SASSI) sequence for improved high-field MR spectroscopic imaging. <i>Magnetic Resonance in Medicine</i> , 2016 , 76, 1071-82	4.4		7
272	Optimized PRESS sequence timings for measuring glycine at 9.4 T: demonstration in vivo in rat brain. 2016 , 2, 027003			
271	Rapid fat suppression for three-dimensional echo planar imaging with minimized specific absorption rate. <i>Magnetic Resonance in Medicine</i> , 2016 , 76, 1517-1523	4.4		16
270	GABA quantitation using MEGA-PRESS: Regional and hemispheric differences. <i>Journal of Magnetic Resonance Imaging</i> , 2016 , 44, 1619-1623	5.6		22

269	CSI and SENSE CSI. 2016 , 1291-1306		1
268	DCE-MRI, DW-MRI, and MRS in Cancer: Challenges and Advantages of Implementing Qualitative and Quantitative Multi-parametric Imaging in the Clinic. 2016 , 25, 245-254		21
267	Key concepts in MR spectroscopy and practical approaches to gaining biochemical information in children. 2016 , 46, 941-51		12
266	Methodology of Clinical MRS: Technical Challenges and Solutions. 2016 , 31-54		
265	Model predictive filtering MR thermometry: Effects of model inaccuracies, k-space reduction factor, and temperature increase rate. <i>Magnetic Resonance in Medicine</i> , 2016 , 75, 207-16	4.4	4
264	Magnetic Resonance Spectroscopy of Degenerative Brain Diseases. 2016 ,		0
263	Spectral Editing. 2016 , 1147-1156		2
262	MR laging. 2016 , 121-139		1
261	A rapid inversion technique for the measurement of longitudinal relaxation times of brain metabolites: application to lactate in high-grade gliomas at 3 T. 2016 , 29, 1381-90		9
260	Characterization of the response of taurine protons to PRESS at 9.4 T for Resolving choline and Determining taurine T2. 2016 , 29, 1427-35		0
259	Simultaneous muscle water T2 and fat fraction mapping using transverse relaxometry with stimulated echo compensation. 2016 , 29, 431-43		52
258	Parameter optimization for reproducible cardiac H-MR spectroscopy at 3 Tesla. <i>Journal of Magnetic Resonance Imaging</i> , 2016 , 44, 1151-1158	5.6	17
257	Quantification of liver fat: A comprehensive review. 2016 , 71, 174-89		47
256	Checking and Correcting DTI Data. 2016 , 127-150		2
255	Clinical Imaging of Tumor Metabolism with ^1H Magnetic Resonance Spectroscopy. 2016 , 24, 57-86		30
254	Diffusion-weighted stimulated echo acquisition mode (DW-STEAM) MR spectroscopy to measure fat unsaturation in regions with low proton-density fat fraction. <i>Magnetic Resonance in Medicine</i> , 2016 , 75, 32-41	4.4	20
253	High-resolution H-MRSI of the brain using short-TE SPICE. <i>Magnetic Resonance in Medicine</i> , 2017 , 77, 467-479	4.4	30
252	Measurement of an oil/water flow using magnetic resonance imaging. 2017 , 53, 161-171		10

251	Fat-water separation using a region-growing algorithm with self-feeding phasor estimation. <i>Magnetic Resonance in Medicine</i> , 2017 , 77, 2390-2401	4.4	10
250	Second-order motion compensated PRESS for cardiac spectroscopy. <i>Magnetic Resonance in Medicine</i> , 2017 , 77, 57-64	4.4	7
249	Efficient spectroscopic imaging by an optimized encoding of pretargeted resonances. <i>Magnetic Resonance in Medicine</i> , 2017 , 77, 511-519	4.4	1
248	Quality management in in vivo proton MRS. 2017 , 529, 98-116		15
247	Fronto-striatal glutamate in children with Tourette's disorder and attention-deficit/hyperactivity disorder. 2017 , 13, 16-23		29
246	Imaging near orthopedic hardware. <i>Journal of Magnetic Resonance Imaging</i> , 2017 , 46, 24-39	5.6	21
245	Rapid chemical shift encoding with single-acquisition single-slab 3D GRASE. <i>Magnetic Resonance in Medicine</i> , 2017 , 78, 1852-1861	4.4	3
244	Elevated Choline-Containing Compound Levels in Rapid Cycling Bipolar Disorder. 2017 , 42, 2252-2258		9
243	Non-water-suppressed short-echo-time magnetic resonance spectroscopic imaging using a concentric ring k-space trajectory. 2017 , 30, e3714		23
242	Quantitative ultrashort echo time imaging for assessment of massive iron overload at 1.5 and 3 Tesla. <i>Magnetic Resonance in Medicine</i> , 2017 , 78, 1839-1851	4.4	38
241	Rapid Diffusion-Weighted Magnetic Resonance Imaging of the Brain Without Susceptibility Artifacts: Single-Shot STEAM With Radial Undersampling and Iterative Reconstruction. 2017 , 52, 428-433		11
240	Normalizing data from GABA-edited MEGA-PRESS implementations at 3 Tesla. 2017 , 42, 8-15		11
239	Magnetic resonance imaging of granular materials. 2017 , 88, 051806		28
238	Fat and water selective MRI. 2017 , 27, 1-3		
237	Diffusion-weighted J-resolved spectroscopy. <i>Magnetic Resonance in Medicine</i> , 2017 , 78, 1235-1245	4.4	8
236	Fast triple-spin-echo Dixon (FTSED) sequence for water and fat imaging. 2017 , 37, 164-170		2
235	Magnetic resonance fingerprinting using echo-planar imaging: Joint quantification of T and T2* relaxation times. <i>Magnetic Resonance in Medicine</i> , 2017 , 78, 1724-1733	4.4	44
234	COMPARISON OF VARIOUS MRI FAT SUPPRESSION TECHNIQUES ON A WATER-FAT PHANTOM AT 1.5 T. 2017 , 29, 1750015		

233	Rapid whole-brain resting-state fMRI at 3T: Efficiency-optimized three-dimensional EPI versus repetition time-matched simultaneous-multi-slice EPI. 2017 , 163, 81-92		26
232	Magnetic Resonance Spectroscopy and its Clinical Applications: A Review. 2017 , 48, 233-253		39
231	A Subspace Approach to Spectral Quantification for MR Spectroscopic Imaging. 2017 , 64, 2486-2489		14
230	Probing the water distribution in porous model sands with two immiscible fluids: A nuclear magnetic resonance micro-imaging study. 2017 , 553, 637-650		5
229	A functional imaging study of germinating oilseed rape seed. 2017 , 216, 1181-1190		39
228	A practical guide to in vivo proton magnetic resonance spectroscopy at high magnetic fields. 2017 , 529, 30-39		18
227	Compartmentalized low-rank recovery for high-resolution lipid unsuppressed MRSI. <i>Magnetic Resonance in Medicine</i> , 2017 , 78, 1267-1280	4.4	12
226	Chemical Shift magnetization transfer magnetic resonance imaging. <i>Magnetic Resonance in Medicine</i> , 2017 , 78, 656-663	4.4	4
225	Spectral Quantification for High-Resolution MR Spectroscopic Imaging With Spatiospectral Constraints. 2017 , 64, 1178-1186		7
224	Low-bandwidth space/frequency component separation for quantitative imaging. 2017 , 55, 137-144		
223	Spectrally-Presaturated Modulation (SPM): An efficient fat suppression technique for STEAM-based cardiac imaging sequences. 2017 , 37, 209-215		1
222	B magnetic field homogeneity and shimming for in vivo magnetic resonance spectroscopy. 2017 , 529, 17-29		53
221	The Application of Human Spinal Cord Magnetic Resonance Spectroscopy to Clinical Studies: A Review. 2017 , 38, 153-162		11
220	Reproducibility measurement of glutathione, GABA, and glutamate: Towards in vivo neurochemical profiling of multiple sclerosis with MR spectroscopy at 7T. <i>Journal of Magnetic Resonance Imaging</i> , 2017 , 45, 187-198	5.6	52
219	Fronto-Striatal Glutamate in Autism Spectrum Disorder and Obsessive Compulsive Disorder. 2017 , 42, 2456-2465		21
218	3D whole-heart phase sensitive inversion recovery CMR for simultaneous black-blood late gadolinium enhancement and bright-blood coronary CMR angiography. 2017 , 19, 94		24
217	In vivo hyperpolarization transfer in a clinical MRI scanner. <i>Magnetic Resonance in Medicine</i> , 2018 , 80, 480-487	4.4	6
216	Time-resolved contrast-enhanced MR angiography with single-echo Dixon fat suppression. <i>Magnetic Resonance in Medicine</i> , 2018 , 80, 1556-1567	4.4	3

215	Water suppression in the human brain with hypergeometric RF pulses for single-voxel and multi-voxel MR spectroscopy. <i>Magnetic Resonance in Medicine</i> , 2018 , 80, 1298-1306	4.4	4
214	Multiparametric (mp) MRI of prostate cancer. 2018 , 105, 23-40		17
213	In Vivo Heteronuclear Magnetic Resonance Spectroscopy. 2018 , 1718, 169-187		7
212	Human in-vivo brain magnetic resonance current density imaging (MRCDI). 2018 , 171, 26-39		35
211	Improved fat suppression of the breast using discretized frequency shimming. <i>Magnetic Resonance in Medicine</i> , 2018 , 79, 593-599	4.4	3
210	Tailored spiral in-out spectral-spatial water suppression pulses for magnetic resonance spectroscopic imaging. <i>Magnetic Resonance in Medicine</i> , 2018 , 79, 31-40	4.4	10
209	A rapid 3D fat-water decomposition method using globally optimal surface estimation (R-GOOSE). <i>Magnetic Resonance in Medicine</i> , 2018 , 79, 2401-2407	4.4	9
208	A minimum-phase Shinnar-Le Roux spectral-spatial excitation RF pulse for simultaneous water and lipid suppression in H-MRSI of body extremities. 2018 , 45, 18-25		
207	Peripheral nerve diffusion tensor imaging: Overview, pitfalls, and future directions. <i>Journal of Magnetic Resonance Imaging</i> , 2018 , 47, 1171-1189	5.6	43
206	Simultaneous bright- and black-blood whole-heart MRI for noncontrast enhanced coronary lumen and thrombus visualization. <i>Magnetic Resonance in Medicine</i> , 2018 , 79, 1460-1472	4.4	20
205	Improved resolution of glutamate, glutamine and γ -aminobutyric acid with optimized point-resolved spectroscopy sequence timings for their simultaneous quantification at 9.4 T. 2018 , 31, e3851		6
204	Striatal structure and its association with N-Acetylaspartate and glutamate in autism spectrum disorder and obsessive compulsive disorder. 2018 , 28, 118-129		9
203	Multi-modal imaging investigation of anterior cingulate cortex cytoarchitecture in neurodevelopment. 2018 , 28, 13-23		4
202	Flexible water excitation for fat-free MRI at 3T using lipid insensitive binomial off-resonant RF excitation (LIBRE) pulses. <i>Magnetic Resonance in Medicine</i> , 2018 , 79, 3007-3017	4.4	16
201	Advancing imaging technologies for patients with spinal pain: with a focus on whiplash injury. 2018 , 18, 1489-1497		4
200	Single Volume Localization and Water Suppression. 2018 , 293-334		0
199	1 Relevant Magnetic Resonance Imaging Techniques. 2018 ,		
198	Reduction of Acquisition time using Partition of the signal Decay in Spectroscopic Imaging technique (RAPID-SI). 2018 , 13, e0207015		2

197	In Vivo NMR Spectroscopy Dynamic Aspects. 2018 , 129-210		1
196	Characterization of Brain Metabolism by Nuclear Magnetic Resonance. 2019 , 20, 216-230		8
195	Estimation of pancreatic R2* for iron overload assessment in the presence of fat: a comparison of different approaches. 2018 , 31, 757-769		4
194	Non-invasive magnetic resonance imaging of oils in <i>Botryococcus braunii</i> green algae: Chemical shift selective and diffusion-weighted imaging. 2018 , 13, e0203217		3
193	High-resolution echo-planar spectroscopic imaging at ultra-high field. 2018 , 31, e3950		8
192	Towards defining muscular regions of interest from axial magnetic resonance imaging with anatomical cross-reference: part II - cervical spine musculature. 2018 , 19, 171		17
191	Nuclear spin singlet states as magnetic on/off probes in self-assembling systems. 2018 , 20, 22463-22467		17
190	Noncontrast free-breathing respiratory self-navigated coronary artery cardiovascular magnetic resonance angiography at 3 T using lipid insensitive binomial off-resonant excitation (LIBRE). 2019 , 21, 38		9
189	Magnetic resonance spectroscopy of rat kidney in vivo at 9.4 T. 2019 , 5, 045035		
188	Evaluation of Cardiac Metabolism by Magnetic Resonance Spectroscopy in Heart Failure. 2019 , 15, 421-433		4
187	Effects of different fat-suppression methods on T1 values in dynamic contrast-enhanced magnetic resonance imaging: a phantom study. 2019 , 12, 335-342		2
186	PRESS timings for resolving C -glutamate H signal at 9.4 T: Demonstration in rat with uniformly labelled C-glucose. 2019 , 32, e4180		
185	Residual Water Suppression Using the Squared Eigenfunctions of the Schrödinger Operator. 2019 , 7, 69126-69137		5
184	Validation of in vivo MRS measures of metabolite concentrations in the human brain. 2019 , 32, e4058		24
183	Dephasing optimization through coherence order pathway selection (DOTCOPS) for improved crusher schemes in MR spectroscopy. <i>Magnetic Resonance in Medicine</i> , 2019 , 81, 2209-2222	4.4	15
182	Influence of ligand encapsulation on cobalt-59 chemical-shift thermometry. 2019 , 10, 6727-6734		10
181	Retrospective phase-based gating for cardiac proton spectroscopy with fixed scan time. <i>Journal of Magnetic Resonance Imaging</i> , 2019 , 50, 1973-1981	5.6	4
180	Water removal in MR spectroscopic imaging with L2 regularization. <i>Magnetic Resonance in Medicine</i> , 2019 , 82, 1278-1287	4.4	3

179	Whole-brain snapshot CEST imaging at 7 T using 3D-EPI. <i>Magnetic Resonance in Medicine</i> , 2019 , 82, 1741-1752	4.4	19
178	Short echo time relaxation-enhanced MR spectroscopy reveals broad downfield resonances. <i>Magnetic Resonance in Medicine</i> , 2019 , 82, 1266-1277	4.4	7
177	Simultaneous 3D whole-heart bright-blood and black blood imaging for cardiovascular anatomy and wall assessment with interleaved T prep-IR. <i>Magnetic Resonance in Medicine</i> , 2019 , 82, 312-325	4.4	2
176	An 8-channel receive array for improved P MRSI of the whole brain at 3T. <i>Magnetic Resonance in Medicine</i> , 2019 , 82, 825-832	4.4	5
175	Diffusion-weighted MRI of the prostate without susceptibility artifacts: Undersampled multi-shot turbo-STEAM with rotated radial trajectories. 2019 , 32, e4074		3
174	Fat-water separation based on Transition Region Extraction (TREE). <i>Magnetic Resonance in Medicine</i> , 2019 , 82, 436-448	4.4	2
173	Methodological consensus on clinical proton MRS of the brain: Review and recommendations. <i>Magnetic Resonance in Medicine</i> , 2019 , 82, 527-550	4.4	134
172	Magnetic resonance thermometry and its biological applications - Physical principles and practical considerations. 2019 , 110, 34-61		42
171	Myocardial triglycerides in cardiac amyloidosis assessed by proton cardiovascular magnetic resonance spectroscopy. 2019 , 21, 10		6
170	Non-contrast enhanced simultaneous 3D whole-heart bright-blood pulmonary veins visualization and black-blood quantification of atrial wall thickness. <i>Magnetic Resonance in Medicine</i> , 2019 , 81, 1066-1079	4.4	10
169	Combined application of isotropic three-dimensional fast spin echo (3D-FSE-Cube) with 2-point Dixon fat/water separation (FLEX) and 3D-FSE-cube in MR dacryocystography. 2019 , 92, 20180157		3
168	Selective oil-phase rheo-MRI velocity profiles to monitor heterogeneous flow behavior of oil/water food emulsions. 2019 , 57, 766-770		6
167	Cardiac- versus diaphragm-based respiratory navigation for proton spectroscopy of the heart. 2019 , 32, 259-268		5
166	Simultaneous fat-free isotropic 3D anatomical imaging and T mapping of knee cartilage with lipid-insensitive binomial off-resonant RF excitation (LIBRE) pulses. <i>Journal of Magnetic Resonance Imaging</i> , 2019 , 49, 1275-1284	5.6	7
165	Quantitation of in vivo brain glutathione conformers in cingulate cortex among age-matched control, MCI, and AD patients using MEGA-PRESS. 2020 , 41, 194-217		21
164	Ultrafast magnetic resonance spectroscopic imaging using SPICE with learned subspaces. <i>Magnetic Resonance in Medicine</i> , 2020 , 83, 377-390	4.4	18
163	Navigator-free metabolite-cycled proton spectroscopy of the heart. <i>Magnetic Resonance in Medicine</i> , 2020 , 83, 795-805	4.4	3
162	Rapid and motion-robust volume coverage using cross-sectional real-time MRI. <i>Magnetic Resonance in Medicine</i> , 2020 , 83, 1652-1658	4.4	4

161	Natively fat-suppressed 5D whole-heart MRI with a radial free-running fast-interrupted steady-state (FISS) sequence at 1.5T and 3T. <i>Magnetic Resonance in Medicine</i> , 2020 , 83, 45-55	4.4	12
160	Single-Voxel H MR spectroscopy of cerebral nicotinamide adenine dinucleotide (NAD) in humans at 7T using a 32-channel volume coil. <i>Magnetic Resonance in Medicine</i> , 2020 , 83, 806-814	4.4	7
159	3D Whole-heart free-breathing qBOOST-T2 mapping. <i>Magnetic Resonance in Medicine</i> , 2020 , 83, 1673-1684	4.4	6
158	A quantitative comparison between a navigated Cartesian and a self-navigated radial protocol from clinical studies for free-breathing 3D whole-heart bSSFP coronary MRA. <i>Magnetic Resonance in Medicine</i> , 2020 , 84, 157-169	4.4	7
157	Altered neurochemistry in the anterior white matter of bipolar children and adolescents: a multivoxel H MRS study. 2021 , 26, 4117-4126		1
156	Magnetic Resonance Spectroscopy of the Head and Neck: Principles, Applications, and Challenges. 2020 , 30, 283-293		4
155	Accelerated high-resolution free-breathing 3D whole-heart T-prepared black-blood and bright-blood cardiovascular magnetic resonance. 2020 , 22, 88		4
154	Lipid-suppressed and tissue-fraction corrected metabolic distributions in human central brain structures using 2D H magnetic resonance spectroscopic imaging at 7 T. 2020 , 10, e01852		7
153	Metabolite activity in the anterior cingulate cortex during a painful stimulus using functional MRS. 2020 , 10, 19218		3
152	What scans we will read: imaging instrumentation trends in clinical oncology. 2020 , 20, 38		9
151	Evaluation of liver iron overload with R2* relaxometry with versus without fat suppression: both are clinically accurate but there are differences. 2020 , 30, 5826-5833		2
150	A half-century of innovation in technology-preparing MRI for the 21st century. 2020 , 93, 20200113		6
149	Use of Multiplied, Added, Subtracted and/or FiTted Inversion Recovery (MASTIR) pulse sequences. 2020 , 10, 1334-1369		3
148	Insular and occipital changes in visual snow syndrome: a BOLD fMRI and MRS study. 2020 , 7, 296-306		24
147	Free-running 5D coronary MR angiography at 1.5T using LIBRE water excitation pulses. <i>Magnetic Resonance in Medicine</i> , 2020 , 84, 1470-1485	4.4	7
146	Selective magnetic resonance signal suppression by colored Frank excitation. 2020 , 317, 106776		
145	Non-water-excitation MR spectroscopy techniques to explore exchanging protons in human brain at 3 T. <i>Magnetic Resonance in Medicine</i> , 2020 , 84, 2352-2363	4.4	3
144	A ratiometric F MR-based method for the quantification of Ca using responsive paramagnetic probes. 2020 , 56, 3492-3495		15

143	SCSA based MATLAB pre-processing toolbox for 1H MR spectroscopic water suppression and denoising. 2020 , 18, 100294		1
142	Low-level fat fraction quantification at 3 T: comparative study of different tools for water-fat reconstruction and MR spectroscopy. 2020 , 33, 455-468		2
141	Nuclear magnetic resonance spectroscopy of human body fluids and in vivo magnetic resonance spectroscopy: Potential role in the diagnosis and management of prostate cancer. 2020 , 38, 150-173		12
140	Super-resolved water/fat image reconstruction based on single-shot spatiotemporally encoded MRI. 2020 , 314, 106736		0
139	Advances in Pediatric Neuroimaging. MR Spectroscopy. 2020 , 33, 100798		
138	Quick MR Neuromelanin Imaging Using a Chemical Shift Selective Pulse. 2021 , 20, 106-111		0
137	Magnetic resonance imaging of catalytically relevant processes. 2021 , 37, 3-29		2
136	Magnetic resonance markers of bilateral neuronal metabolic dysfunction in patients with unilateral internal carotid artery occlusion. 2021 , 34, 141-151		
135	Age-related GABAergic differences in the primary sensorimotor cortex: A multimodal approach combining PET, MRS and TMS. 2021 , 226, 117536		6
134	A novel spectrally selective fat saturation pulse design with robustness to B and B inhomogeneities: A demonstration on 3D T-weighted breast MRI at 3 T. 2021 , 75, 156-161		2
133	Chemical shift encoding using asymmetric readout waveforms. <i>Magnetic Resonance in Medicine</i> , 2021 , 85, 1468-1480	4-4	
132	Multiphase flow and mixing quantification using computational fluid dynamics and magnetic resonance imaging. 2021 , 77, 101816		2
131	Characterization of Kinetic Isotope Effects and Label Loss in Deuterium-Based Isotopic Labeling Studies. 2021 , 12, 234-243		8
130	Toward nonparametric diffusion- characterization of crossing fibers in the human brain. <i>Magnetic Resonance in Medicine</i> , 2021 , 85, 2815-2827	4-4	8
129	Combining inhomogeneous magnetization transfer and multipoint Dixon acquisition: Potential utility and evaluation. <i>Magnetic Resonance in Medicine</i> , 2021 , 85, 2136-2144	4-4	2
128	Terminology and concepts for the characterization of in vivo MR spectroscopy methods and MR spectra: Background and experts' consensus recommendations. 2020 , 34, e4347		23
127	Localized singlet-filtered MRS in vivo. 2021 , 34, e4400		4
126	Diffusion-weighted magnetic resonance imaging (MRI) without susceptibility artifacts: single-shot stimulated echo acquisition mode (STEAM) MRI with iterative reconstruction and spatial regularization. 2021 , 11, 831-837		1

125	Quantitative T -mapping magnetic resonance imaging for assessment of muscle motor unit recruitment patterns. 2021 , 63, 703-709		2
124	The Magnet Is Sometimes "Off"-Practical Strategies for Optimizing Challenging Musculoskeletal MR Imaging. 2021 , 51, 392-392		0
123	Sensitivity and resolution improvement for in-vivo magnetic resonance current density imaging (MRCDI) of the human brain.		
122	Bilingualism is a long-term cognitively challenging experience that modulates metabolite concentrations in the healthy brain. 2021 , 11, 7090		2
121	A robust broadband fat-suppressing phaser T -preparation module for cardiac magnetic resonance imaging at 3T. <i>Magnetic Resonance in Medicine</i> , 2021 , 86, 1434-1444	4.4	0
120	Glutamate and GABA Homeostasis and Neurometabolism in Major Depressive Disorder. 2021 , 12, 637863		10
119	A 3D high resolution MRI method for the visualization of cardiac fibro-fatty infiltrations. 2021 , 11, 9266		0
118	Controlling Through-Slice Chemical-Shift Artifacts for Improved Non-Fat-Suppressed Musculoskeletal Turbo-Spin-Echo Magnetic Resonance Imaging at 7 T. 2021 , 56, 545-552		2
117	Improved nerve conspicuity with water-weighting and denoising in two-point Dixon magnetic resonance neurography. 2021 , 79, 103-111		1
116	Characterization of the H-MRS Metabolite Spectra in Transgender Men with Gender Dysphoria and Cisgender People. 2021 , 10,		2
115	Low-Field Magnetic Resonance Imaging: Its History and Renaissance. 2021 , 56, 669-679		6
114	In vivo evidence of differential frontal cortex metabolic abnormalities in progressive and relapsing-remitting multiple sclerosis. 2021 , 34, e4590		1
113	Sensitivity and resolution improvement for in vivo magnetic resonance current-density imaging of the human brain. <i>Magnetic Resonance in Medicine</i> , 2021 , 86, 3131-3146	4.4	1
112	PRATEEK: Integration of Multimodal Neuroimaging Data to Facilitate Advanced Brain Research. 2021 , 83, 305-317		
111	Multi-parametric MRI (mpMRI) for treatment response assessment of radiation therapy. 2021 ,		0
110	Clinical Y-view versus 3-dimensional assessments of intramuscular fat in patients with full-thickness rotator cuff tears. 2021 , 77, 13-16		2
109	In Vivo Brain GSH: MRS Methods and Clinical Applications. 2021 , 10,		8
108	Fat-saturated image generation from multi-contrast MRIs using generative adversarial networks with Bloch equation-based autoencoder regularization. 2021 , 73, 102198		3

107	Spectroscopic MRI for Brain Tumor Imaging. 2021 , 1077-1090	0
106	Chemically Induced Electron and Nuclear Polarization. 947-992	10
105	Water and lipid suppression techniques for advanced H MRS and MRSI of the human brain: Experts' consensus recommendations. 2021 , 34, e4459	11
104	Localized Proton Magnetic Resonance Spectroscopy of Brain Disorders in Childhood. 1997 , 329-402	18
103	Localization in Clinical NMR Spectroscopy. 1992 , 1-53	8
102	Application of Proton Nuclear Magnetic Resonance to Tumor Biology. 1987 , 141-157	1
101	MR spectroscopy and spectroscopic imaging of the brain. 2011 , 711, 203-26	98
100	Conventional Imaging Methods. 1999 , 55-132	1
99	Proton spectroscopic imaging in cerebral ischaemia. Where we stand and what can be expected. 1992 , 19, 3-17	1
98	Potential and Obstacles of MRS in the Clinical Setting. 2014 , 315-329	4
97	In Vivo Proton NMR Studies in Skeletal Musculature. 2003 , 50, 1-74	8
96	TIME-OF-FLIGHT TECHNIQUES: Pulse Sequences and Clinical Protocols. 1993 , 1, 217-227	7
95	Pulsed magnetization transfer contrast MRI by a sequence with water selective excitation. 1996 , 20, 73-9	13
94	Lactate preserves neuronal metabolism and function following antecedent recurrent hypoglycemia. 2013 , 123, 1988-98	66
93	Spatially Localised Nuclear Magnetic Resonance. 1988 ,	1
92	Effects of hypoxia-ischemia and inhibition of nitric oxide synthase on cerebral energy metabolism in newborn piglets. 1999 , 45, 827-33	22
91	Afferent Visual Pathway Affection in Patients with PMP22 Deletion-Related Hereditary Neuropathy with Liability to Pressure Palsies. 2016 , 11, e0164617	4
90	Advances in coronary MRA from vessel wall to whole heart imaging. 2007 , 6, 157-70	21

89	Hippocampal Glutathione Depletion and pH Increment in Alzheimer's Disease: An in vivo MRS Study. 2021 , 84, 1139-1152	1
88	Fat Suppression Using Spectrally Selected Inversion Recovery Pulse(Spec IR) : Influence of Phase Loop on Fat Suppression. 2000 , 56, 283-289	0
87	Image Artifacts. 2000 , 87-110	
86	Principles of Magnetic Resonance Imaging and Magnetic Resonance Spectroscopy. 2001 , 30-61	2
85	New Magnetic Resonance Spectroscopy Strategies. 2001 , 97-112	1
84	Usefulness of Lower Extremity MR Venography in 2D TOF Sequence with Fat Suppression Techniques and MTC, and Study of Different warming Procedures. 2001 , 57, 344-349	
83	Grundlagen der MRT und MRS. 2002 , 3-132	1
82	[Evaluation of three-dimensional contrast-enhanced MRA using differential rate k-space sampling (DRKS)]. 2002 , 58, 1609-14	0
81	[Evaluation of t(1)-weighted black blood imaging using triple inversion recovery]. 2002 , 58, 1237-44	1
80	Magnetic Resonance Spectroscopy. 2002 , 257-290	
79	MRI and Its Hardware. 2003 , 9-54	1
78	[Fundamental explanation of MR pulse sequence table]. 2003 , 59, 707-18	
77	Konventionelle Bildgebungsmethoden. 2004 , 59-146	
76	Magnetic Resonance Imaging. 2006 , 12-1-12-39	
75	The clinical usefulness of fat suppression by chemical shift selective(CHESS) pulse in MRI. 2007 , 14B, 431-436	
74	Molecular Imaging and PET/CT. 2010 , 155-169	
73	Parallel Magnetic Resonance Imaging Acquisition and Reconstruction: Application to Functional and Spectroscopic Imaging in Human Brain. 2011 , 245-262	
72	Magnetic Resonance Spectroscopy: Clinical Applications. 2011 , 155-194	

- 71 Principles of 1H NMR Spectroscopy In Vivo. **2012**, 133-147 1
- 70 [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
- 69 Development of NMR: Magnetic Resonance Imaging During the Past Two Decades.
- 68 Magnetic Resonance Imaging. **2012**, 1-38
- 67 Quantitative Evaluation of Optimized Fat-Suppression Techniques for T1 Weighted Cervical Spine MR Imaging: Comparison of TSE-CHESS and TSE-SPAIR. **2013**, 11, 529-536
- 66 Functional Imaging Using NMR. **1987**, 43-60
- 65 A Chemical Shift Imaging Strategy for Paramagnetic Contrast-Enhanced MRI. **1990**, 103-111
- 64 C. **1990**, 36-64
- 63 NMR Tomography. **1991**, 135-171
- 62 Hirn, Gesichtsschel und Hals. **1992**, 97-337
- 61 NMR Imaging: Introduction and Survey. **1994**, 547-561
- 60 Study of Imaging Parameters for Gd-DTPA Continuous Intravenous Injection 3D MR Angiography, Using Fast Gradient Echo. **1996**, 52, 530-535
- 59 Conventional Imaging Methods. **1996**, 45-113
- 58 Metabolism: Magnetic Resonance Spectroscopy and Spectroscopic Imaging. **1997**, 650-660
- 57 A Study of Fat Suppression Using Spectrally Selected Inversion Recovery Pulse. **1998**, 54, 646-652 0
- 56 Magnetic Resonance Spectroscopy: Physical Principles and Applications. **1999**, 47-70 1
- 55 Magnetic Resonance Imaging. **1999**,
- 54 A Study on Optimized MRI Fat-Saturation Technique for Brachial Plexus Patients : Focused on SPAIR and STIR Fat-Saturation. **2014**, 8, 271-278

- 53 Real Time MR Thermometry Using Tm-DOTMA. **2015**, 07, 115-125 2
- 52 Spatially Adaptive Spectral Denoising for MR Spectroscopic Imaging using Frequency-Phase Non-local Means. **2016**, 596-604
- 51 Proton MR Spectroscopy : Data Acquisition and Processing. **2018**, 38, 96-102
- 50 Technical Update in Conventional and Arthrographic MRI of the Shoulder. **2019**, 23-54
- 49 Lipid suppressed and tissue-fraction corrected metabolic distributions in human central brain structures using 2D 1H Magnetic Resonance Spectroscopic Imaging at 7 tesla.
- 48 Magnetic Resonance Imaging: Historical Overview, Technical Developments, and Clinical Applications. **2020**, 31, 35-53
- 47 Fat Quantification Techniques. **2020**, 695-734
- 46 Pediatric magnetic resonance spectroscopy. **2021**, 2, 177-201
- 45 Longitudinal alterations in fronto-striatal glutamate are associated with functioning during inhibitory control in autism spectrum disorder and obsessive compulsive disorder.
- 44 Renal Lipids and Oxygenation in Diabetic Mice: Noninvasive Quantification with MR Imaging. 122860
- 43 Magnetic Resonance Imaging. **2008**, 59-77
- 42 Subcortical ischemic vascular dementia: assessment with quantitative MR imaging and 1H MR spectroscopy. **2000**, 21, 621-30 40
- 41 Multisection proton MR spectroscopy for mesial temporal lobe epilepsy. **2002**, 23, 1359-68 37
- 40 Three-dimensional multivoxel proton MR spectroscopy of the brain in children with neurofibromatosis type 1. **1999**, 20, 1333-41 28
- 39 Proton MR spectroscopy in patients with complex partial seizures: single-voxel spectroscopy versus chemical-shift imaging. **1999**, 20, 643-51 12
- 38 Multivoxel 3D proton spectroscopy in the brain at 1.5 versus 3.0 T: signal-to-noise ratio and resolution comparison. **2001**, 22, 1727-31 87
- 37 Magnetization transfer ratio values and proton MR spectroscopy of normal-appearing cerebral white matter in patients with liver cirrhosis. **2001**, 22, 1137-42 56
- 36 Evaluation of the pathologic characteristics of excitotoxic spinal cord injury with MR imaging. **2005**, 26, 1612-22 17

35	In vivo 1H MR spectroscopy of human head and neck lymph node metastasis and comparison with oxygen tension measurements. 2000 , 21, 183-93		53
34	Relationships between astrogliosis and 1H MR spectroscopic measures of brain choline/creatine and myo-inositol/creatine in a primate model. 2005 , 26, 752-9		32
33	MR Spectroscopy of the Insula: Within- and between-Session Reproducibility of MEGA-PRESS Measurements of GABA+ and Other Metabolites. 2021 , 11,		0
32	Water diffusion in complex systems measured by PGSE NMR using chemical shift selective stimulated echo: Elimination of magnetization exchange effects.. 2021 , 155, 224203		
31	[4. Fat Suppression Techniques in MR Imaging: from Basics to Applications].. 2021 , 77, 1469-1478		
30	H MRS thermometry: impact of separately acquired full water or partially suppressed water data on quantification and measurement error.. 2021 , e4681		1
29	Advances in Pediatric MRI. 2022 , 773-791		
28	Ultrafast water-fat separation using deep learning-based single-shot MRI.. <i>Magnetic Resonance in Medicine</i> , 2022 ,	4.4	1
27	Evidence for distinct neuro-metabolic phenotypes in humans.. 2022 , 249, 118902		0
26	Neurobiochemistry Alterations Associated with Major Depression: A Review of Translational Magnetic Resonance Spectroscopic Studies. 2022 , 265-309		1
25	In vivo Human MR Spectroscopy Using a Clinical Scanner: Development, Applications, and Future Prospects.. 2022 , 21,		1
24	SABRE hyperpolarized anticancer agents for use in H MRI.. <i>Magnetic Resonance in Medicine</i> , 2022 ,	4.4	
23	High-Resolution Label-Free Molecular Imaging of Brain Tumor. 2021 , 2021, 3049-3052		0
22	Minority Stress and the Effects on Emotion Processing in Transgender Men and Cisgender People: A Study Combining fMRI and Proton Magnetic Resonance Spectroscopy (1H-MRS). 2021 ,		1
21	Pulse sequences and protocol design. 19-33		
20	Setup and analysis of PGSE experiments. 198-220		
19	Magnetic resonance imaging reveals a markedly inhomogeneous distribution of marrow cellularity in a patient with myelodysplasia. 1995 , 71, 143-146		
18	Multimodal magnetic resonance neuroimaging measures characteristic of early cART-treated pediatric HIV: A feature selection approach.. 2022 ,		

17	Variation in glutamate and GABA genes and their association with brain structure and chemistry in autism.	
16	Magnetization Transfer BOOST Noncontrast Angiography Improves Pulmonary Vein Imaging in Adults With Congenital Heart Disease. <i>Journal of Magnetic Resonance Imaging</i> ,	5.6
15	Metabolite-cycled echo-planar spectroscopic imaging of the human heart. <i>Magnetic Resonance in Medicine</i> ,	4.4
14	Cohort-mean measured macromolecules lead to more robust linear-combination modeling than subject-specific or parameterized ones.	○
13	Magnetic Resonance Spectroscopy Outperforms Perfusion in Distinguishing Between Pseudoprogression and Disease Progression in Patients with Glioblastoma.	
12	Hippocampal glutathione depletion with enhanced iron level in patients with mild cognitive impairment and Alzheimer's disease compared to healthy elderly participants.	○
11	Artifacts in breast MRI. 2022 , 33-48	○
10	Metaplasticity: Dark exposure boosts excitability and visual plasticity in adult human cortex.	○
9	Clinician's guide to the basic principles of MRI. postgradmedj-2022-141998	○
8	Cellular Lactate Spectroscopy Using 1.5 Tesla Clinical Apparatus. 2022 , 23, 11355	○
7	Metabolite T1relaxation times differ across the adult lifespan.	○
6	The Association of the Oral Microbiota with the Effects of Acid Stress Induced by an Increase of Brain Lactate in Schizophrenia Patients. 2023 , 11, 240	○
5	Single-spoke binning: Reducing motion artifacts in abdominal radial stack-of-stars imaging.	○
4	Seeing plants as never before.	○
3	Functional and Molecular Imaging Techniques. 2023 , 15-26	○
2	MRS in neuroinflammation. 2023 , 79-116	○
1	Probing microstructural changes in muscles of leptin-deficient zebrafish by non-invasive ex-vivo magnetic resonance microimaging. 2023 , 18, e0284215	○