

# CITATION REPORT

List of articles citing

Early detection of regional cerebral ischemia in cats:  
comparison of diffusion- and T2-weighted MRI and spectroscopy

DOI: 10.1002/mrm.1910140218

Magnetic Resonance in Medicine, 1990, 14, 330-46.

**Source:** <https://exaly.com/paper-pdf/21417809/citation-report.pdf>

**Version:** 2024-04-28

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

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

#	Paper	IF	Citations
1462	Optical coherence microscopy for deep tissue imaging of the cerebral cortex with intrinsic contrast. <b>2012, 20, 2220</b>		
1461	Optical coherence microscopy for deep tissue imaging of the cerebral cortex with intrinsic contrast. <b>2012, 20, 2220</b>		
1460	Optical coherence microscopy for deep tissue imaging of the cerebral cortex with intrinsic contrast. <b>2012, 20, 2220</b>		
1459	Optical coherence microscopy for deep tissue imaging of the cerebral cortex with intrinsic contrast. <b>2012, 20, 2220</b>		
1458	Optical coherence microscopy for deep tissue imaging of the cerebral cortex with intrinsic contrast. <b>2012, 20, 2220</b>		
1457	Diagnostic Evaluation of Stroke. 75-93		
1456	Magnetic resonance: perfusion and diffusion imaging. <b>1990, 32, 392-8</b>		19
1455	Functional magnetic resonance imaging in medicine and physiology. <b>1990, 250, 53-61</b>		150
1454	Temporal evolution of ischemic damage in rat brain measured by proton nuclear magnetic resonance imaging. <b>1991, 22, 802-8</b>		187
1453	Comparison of diffusion- and T2-weighted MRI for the early detection of cerebral ischemia and reperfusion in rats. <i>Magnetic Resonance in Medicine</i> , <b>1991, 18, 39-50</b>	4.4	471
1452	Applications of the intravoxel coherent motion technique to the central nervous system. <i>Magnetic Resonance in Medicine</i> , <b>1991, 19, 266-9</b>	4.4	4
1451	Diffusion/perfusion MR imaging of acute cerebral ischemia. <i>Magnetic Resonance in Medicine</i> , <b>1991, 19, 311-5</b>	4.4	139
1450	Restricted and anisotropic displacement of water in healthy cat brain and in stroke studied by NMR diffusion imaging. <i>Magnetic Resonance in Medicine</i> , <b>1991, 19, 327-32</b>	4.4	117
1449	Diffusion-weighted imaging of kainic acid lesions in the rat brain. <i>Magnetic Resonance in Medicine</i> , <b>1991, 20, 158-64</b>	4.4	28
1448	Comparison of Gd- and Dy-chelates for T2 contrast-enhanced imaging. <i>Magnetic Resonance in Medicine</i> , <b>1991, 22, 259-64; discussion 265-7</b>	4.4	53
1447	Detection with echo-planar MR imaging of transit of susceptibility contrast medium in a rat model of regional brain ischemia. <i>Journal of Magnetic Resonance Imaging</i> , <b>1991, 1, 285-92</b>	5.6	36
1446	MR imaging of normal rat brain at 0.35 T and correlated histology. <i>Journal of Magnetic Resonance Imaging</i> , <b>1991, 1, 651-6</b>	5.6	12

1445 Early Changes In Diffusion And Perfusion Following Cerebral Ischemia.

1444 The utilization of magnetic resonance imaging in physiology. **1992**, 54, 827-46

8

1443 Reversible focal ischemic injury demonstrated by diffusion-weighted magnetic resonance imaging in rats. **1992**, 23, 1304-10; discussion 1310-1

287

1442 T2- and diffusion-weighted magnetic resonance imaging of a focal ischemic lesion in rat brain. **1992**, 23, 576-82

87

1441 Diffusion-weighted imaging studies of cerebral ischemia in gerbils. Potential relevance to energy failure. **1992**, 23, 1602-12

284

1440 . **1992**, 38, 840-860

85

1439 Mechanism of detection of acute cerebral ischemia in rats by diffusion-weighted magnetic resonance microscopy. **1992**, 23, 746-54

445

1438 Stroke with negative brain magnetic resonance imaging. **1992**, 23, 663-7

49

1437 Experimental focal cerebral ischaemia assessed with IVIM\*-MRI in the acute phase at 0.5 tesla. **1992**, 34, 135-40

12

1436 In vivo magnetic resonance diffusion measurement in the brain of patients with multiple sclerosis. **1992**, 10, 7-12

150

1435 1H-NMR imaging of fimbria fornix lesions in the rat brain. **1992**, 5, 147-51

4

1434 Temporal evolution of focal cerebral ischemia in the rat assessed by T2-weighted and diffusion-weighted magnetic resonance imaging. **1992**, 5, 171-6

41

1433 A method for evaluating anisotropic and restricted diffusion by simultaneous use of spin and stimulated echoes. **1992**, 96, 501-513

1

1432 Two-dimensional 1H spectroscopic imaging for evaluating the local metabolic response to focal ischemia in the conscious rat. **1992**, 5, 11-9

27

1431 Diffusion imaging of the human brain in vivo using high-speed STEAM MRI. *Magnetic Resonance in Medicine*, **1992**, 23, 179-92

4.4 77

1430 MR imaging of anisotropic and restricted diffusion by simultaneous use of spin and stimulated echoes. *Magnetic Resonance in Medicine*, **1992**, 26, 174-83

4.4 11

1429 Evaluation of experimental early acute cerebral ischemia before the development of edema: use of dynamic, contrast-enhanced and diffusion-weighted MR scanning. *Magnetic Resonance in Medicine*, **1992**, 27, 189-97

4.4 27

1428 Real-time observation of transient focal ischemia and hyperemia in cat brain. *Magnetic Resonance in Medicine*, **1992**, 27, 391-7

4.4 92

1427	Ultrafast MR imaging of water mobility: animal models of altered cerebral perfusion. <i>Journal of Magnetic Resonance Imaging</i> , <b>1992</b> , 2, 377-84	5.6	16
1426	New magnetic resonance techniques for evaluating cerebrovascular disease. <b>1992</b> , 32, 115-22		57
1425	Controllable graded cerebral ischaemia in the gerbil: studies of cerebral blood flow and energy metabolism by hydrogen clearance and 31P NMR spectroscopy. <b>1993</b> , 6, 181-6		42
1424	Molecular self-diffusion of intracellular metabolites in rat brain in vivo investigated by localized proton NMR diffusion spectroscopy. <i>Magnetic Resonance in Medicine</i> , <b>1993</b> , 29, 125-9	4.4	61
1423	Diffusion imaging of experimental allergic encephalomyelitis. <i>Magnetic Resonance in Medicine</i> , <b>1993</b> , 29, 478-84	4.4	50
1422	Changes in water diffusion and relaxation properties of rat cerebrum during status epilepticus. <i>Magnetic Resonance in Medicine</i> , <b>1993</b> , 30, 241-6	4.4	212
1421	Apparent diffusion coefficient mapping of experimental focal cerebral ischemia using diffusion-weighted echo-planar imaging. <i>Magnetic Resonance in Medicine</i> , <b>1993</b> , 30, 318-25	4.4	156
1420	Differentiation of chronic lesions after stroke in stroke-prone spontaneously hypertensive rats using diffusion weighted MRI. <i>Magnetic Resonance in Medicine</i> , <b>1993</b> , 30, 485-8	4.4	36
1419	Measurement of regional blood oxygenation and cerebral hemodynamics. <i>Magnetic Resonance in Medicine</i> , <b>1993</b> , 30, 715-23	4.4	103
1418	Rapid MR imaging of a vascular challenge to focal ischemia in cat brain. <i>Journal of Magnetic Resonance Imaging</i> , <b>1993</b> , 3, 475-81	5.6	15
1417	Perfusion and diffusion MR imaging of thromboembolic stroke. <i>Journal of Magnetic Resonance Imaging</i> , <b>1993</b> , 3, 746-54	5.6	52
1416	Discrimination between different types of white matter edema with diffusion-weighted MR imaging. <i>Journal of Magnetic Resonance Imaging</i> , <b>1993</b> , 3, 863-8	5.6	116
1415	Histopathological correlations of nuclear magnetic resonance imaging parameters in experimental cerebral ischemia. <b>1993</b> , 11, 241-6		88
1414	A new method for diffusion weighted imaging. <b>1993</b> , 11, 367-73		3
1413	Diffusion- and T2-weighted imaging: evaluation of oedema reduction in focal cerebral ischaemia by the calcium and serotonin antagonist levemopamil. <b>1993</b> , 11, 401-9		39
1412	The evolution of acute stroke recorded by multimodal magnetic resonance imaging. <b>1993</b> , 11, 465-71		113
1411	High-speed MR imaging of ischemic brain injury following stenosis of the middle cerebral artery. <b>1993</b> , 13, 940-6		82
1410	Abstracts-part VIII (Continue in Part IX). <b>1993</b> , 1993, 1481-1530		

1409	Complementary use of T2- and postcontrast T1-weighted NMR images for the sequential monitoring of focal ischemic lesions in the rat brain. <b>1993</b> , 11, 675-83		10
1408	Temporal evolution of NMDA-induced excitotoxicity in the neonatal rat brain measured with <sup>1</sup> H nuclear magnetic resonance imaging. <b>1993</b> , 618, 203-12		54
1407	Applications of magnetic resonance spectroscopy and diffusion-weighted imaging to the study of brain biochemistry and pathology. <b>1993</b> , 16, 88-95		36
1406	Temporal evolution and spatial distribution of the diffusion constant of water in rat brain after transient middle cerebral artery occlusion. <b>1993</b> , 120, 123-30		74
1405	Correlation between somatosensory-evoked potentials and magnetic resonance imaging of focal cerebral ischemia in cats. <b>1993</b> , 40, 216-23		4
1404	NMR and the study of pathological state in cells and tissues. <b>1993</b> , 145, 1-63		8
1403	Diffusion and perfusion magnetic resonance imaging studies to evaluate a noncompetitive N-methyl-D-aspartate antagonist and reperfusion in experimental stroke in rats. <b>1993</b> , 24, 2074-81		92
1402	Diffusion-Weighted Magnetic Resonance Imaging for Acute Ischaemic Stroke. <b>1994</b> , vmr-5, 307-317		1
1401	Time-dependent diffusion of water in a biological model system. <b>1994</b> , 91, 1229-33		411
1400	Diurnal fluid changes of lumbar discs measured indirectly by magnetic resonance imaging. <b>1994</b> , 12, 509-14		60
1399	New and reproducible technique for experimentally induced middle cerebral artery stenosis. <b>1994</b> , 15, 70-2		6
1398	Water diffusion and acute stroke. <i>Magnetic Resonance in Medicine</i> , <b>1994</b> , 31, 154-63	4.4	350
1397	Transient cell depolarization after permanent middle cerebral artery occlusion: an observation by diffusion-weighted MRI and localized <sup>1</sup> H-MRS. <i>Magnetic Resonance in Medicine</i> , <b>1994</b> , 31, 337-41	4.4	78
1396	Rapid monitoring of changes in water diffusion coefficients during reversible ischemia in cat and rat brain. <i>Magnetic Resonance in Medicine</i> , <b>1994</b> , 31, 454-60	4.4	148
1395	MRI characterization of diffusion coefficients in a rat spinal cord injury model. <i>Magnetic Resonance in Medicine</i> , <b>1994</b> , 31, 488-94	4.4	151
1394	Spreading waves of decreased diffusion coefficient after cortical stimulation in the rat brain. <i>Magnetic Resonance in Medicine</i> , <b>1994</b> , 32, 189-98	4.4	131
1393	Analysis and correction of motion artifacts in diffusion weighted imaging. <i>Magnetic Resonance in Medicine</i> , <b>1994</b> , 32, 379-87	4.4	345
1392	Detection of apparent restricted diffusion in healthy rat brain at short diffusion times. <i>Magnetic Resonance in Medicine</i> , <b>1994</b> , 32, 672-7	4.4	62

1391	Changes in metabolites and tissue water status after focal ischemia in cat brain assessed with localized proton MR spectroscopy. <i>Magnetic Resonance in Medicine</i> , <b>1994</b> , 32, 685-91	4.4	57
1390	q-Space imaging of the brain. <i>Magnetic Resonance in Medicine</i> , <b>1994</b> , 32, 707-13	4.4	108
1389	Monitoring the initial expansion of focal ischaemic changes by diffusion-weighted MRI using a remote controlled method of occlusion. <b>1994</b> , 7, 21-8		60
1388	Comparison of diffusion-weighted MRI with changes in cell volume in a rat model of brain injury. <b>1994</b> , 7, 96-100		122
1387	Health and infarcted brain tissues studied at short diffusion times: the origins of apparent restriction and the reduction in apparent diffusion coefficient. <b>1994</b> , 7, 304-10		125
1386	Viability thresholds and the penumbra of focal ischemia. <b>1994</b> , 36, 557-65		1176
1385	Incidence of apparent restricted diffusion in three different models of cerebral infarction. <b>1994</b> , 12, 1175-82		36
1384	A low flip angle spin-echo technique for producing rapid diffusion weighted MR images. <b>1994</b> , 12, 727-31		3
1383	Correction of motional artifacts in diffusion-weighted MR images using navigator echoes. <b>1994</b> , 12, 455-60		298
1382	The role of magnetic resonance for assessing radiation-induced lung damage. <b>1994</b> , 30, 125-32		4
1381	Abstracts-part II (Continue in Part III). <b>1994</b> , 1994, 101-150		
1380	Early depiction of brain ischaemia with MRI and dysprosium-dota injection. <b>1994</b> , 4, 445-451		4
1379	Perfusion and diffusion imaging. <b>1994</b> , 2, 225-231		0
1378	Focal ischemia in cat brain as studied by diffusion-weighted and dynamic susceptibility-contrast magnetic resonance imaging. <b>1994</b> , 2, 367-370		3
1377	Early changes in apparent diffusion coefficient of rat brain following total circulatory arrest. <b>1994</b> , 2, 39-42		9
1376	Volume and contrast development in the Rose Bengal model of cerebral infarction. <b>1994</b> , 2, 531-538		2
1375	Early evolution and recovery from excitotoxic injury in the neonatal rat brain: a study combining magnetic resonance imaging, electrical impedance, and histology. <b>1994</b> , 14, 1011-23		41
1374	Diffusion-weighted magnetic resonance imaging of acute focal cerebral ischemia: comparison of signal intensity with changes in brain water and Na <sup>+</sup> ,K <sup>(+)</sup> -ATPase activity. <b>1994</b> , 14, 332-6		186

1373	Temperature dependent change of apparent diffusion coefficient of water in normal and ischemic brain of rats. <b>1994</b> , 14, 383-90		81
1372	NMR imaging of the apparent diffusion coefficient (ADC) for the evaluation of metabolic suppression and recovery after prolonged cerebral ischemia. <b>1994</b> , 14, 723-31		130
1371	The effect of hypothermia on transient focal ischemia in rat brain evaluated by diffusion- and perfusion-weighted NMR imaging. <b>1994</b> , 14, 732-41		71
1370	Magnetic resonance imaging assessment of evolving focal cerebral ischemia. Comparison with histopathology in rats. <b>1994</b> , 25, 1252-61; discussion 1261-2		233
1369	Nuclear magnetic resonance spectroscopy studies of the brain. <b>1994</b> , 44, 87-118		55
1368	MRI diffusion mapping of reversible and irreversible ischemic injury in focal brain ischemia. <b>1994</b> , 44, 1484-90		194
1367	Diffusion nuclear magnetic resonance imaging in experimental stroke. Correlation with cerebral metabolites. <b>1994</b> , 25, 494-500		144
1366	Diffusion-weighted imaging differentiates ischemic tissue from traumatized tissue. <b>1994</b> , 25, 843-8		95
1365	SPECT imaging of stroke. <b>1995</b> , 5 Suppl 1, S14-22		19
1364	References. <b>1995</b> , 91, 40-44		
1363	Acute human stroke studied by whole brain echo planar diffusion-weighted magnetic resonance imaging. <b>1995</b> , 37, 231-41		876
1362	Selbstdiffusion von geladenen polycyclischen Arenen und ihren Stammverbindungen: eine PGSE-NMR-Studie. <b>1995</b> , 107, 888-891		6
1361	New and future developments in cerebrovascular ultrasound, magnetic resonance angiography, and related techniques. <b>1995</b> , 23, 139-49		13
1360	Diffusion weighting by the trace of the diffusion tensor within a single scan. <i>Magnetic Resonance in Medicine</i> , <b>1995</b> , 33, 41-52	4.4	214
1359	Theoretical model for water diffusion in tissues. <i>Magnetic Resonance in Medicine</i> , <b>1995</b> , 33, 697-712	4.4	429
1358	Correlation of rapid changes in the average water diffusion constant and the concentrations of lactate and ATP breakdown products during global ischemia in cat brain. <i>Magnetic Resonance in Medicine</i> , <b>1995</b> , 34, 343-52	4.4	58
1357	Correlation of early reduction in the apparent diffusion coefficient of water with blood flow reduction during middle cerebral artery occlusion in rats. <i>Magnetic Resonance in Medicine</i> , <b>1995</b> , 34, 368-77		47
1356	Dynamic Gd-DTPA enhanced MRI measurement of tissue cell volume fraction. <i>Magnetic Resonance in Medicine</i> , <b>1995</b> , 34, 423-32	4.4	97

1355	Correction of motional artifacts in diffusion-weighted images using a reference phase map. <i>Magnetic Resonance in Medicine</i> , <b>1995</b> , 34, 476-80	4.4	24
1354	High resolution renal diffusion imaging using a modified steady-state free precession sequence. <i>Magnetic Resonance in Medicine</i> , <b>1995</b> , 34, 586-95	4.4	16
1353	Changes of relaxation times (T1, T2) and apparent diffusion coefficient after permanent middle cerebral artery occlusion in the rat: temporal evolution, regional extent, and comparison with histology. <i>Magnetic Resonance in Medicine</i> , <b>1995</b> , 34, 824-34	4.4	172
1352	High resolution quantitative relaxation and diffusion MRI of three different experimental brain tumors in rat. <i>Magnetic Resonance in Medicine</i> , <b>1995</b> , 34, 835-44	4.4	98
1351	On the use of <sup>133</sup> Cs as an NMR active probe of intracellular space in vivo. <b>1995</b> , 8, 183-9		9
1350	Evolution of acute focal cerebral ischaemia in rats observed by localized <sup>1</sup> H MRS, diffusion-weighted MRI, and electrophysiological monitoring. <b>1995</b> , 8, 206-14		54
1349	T1 and T2 relaxation times of the major <sup>1</sup> H-containing metabolites in rat brain after focal ischemia. <b>1995</b> , 8, 245-52		51
1348	Interpretation of DW-NMR data: dependence on experimental conditions. <b>1995</b> , 8, 280-8		28
1347	Diffusion-weighted imaging in tissues: theoretical models. <b>1995</b> , 8, 289-96		117
1346	Diffusion MRI: precision, accuracy and flow effects. <b>1995</b> , 8, 307-32		186
1345	Inferring microstructural features and the physiological state of tissues from diffusion-weighted images. <b>1995</b> , 8, 333-44		1223
1344	Diffusion-weighted NMR imaging: application to experimental focal cerebral ischemia. <b>1995</b> , 8, 345-58		71
1343	Diffusion-weighted NMR imaging changes caused by electrical activation of the brain. <b>1995</b> , 8, 359-64		33
1342	In vivo diffusion spectroscopy. An overview. <b>1995</b> , 8, 365-74		45
1341	Clinical aspects of DWI. <b>1995</b> , 8, 387-96		76
1340	A comparison of the early development of ischaemic damage following permanent middle cerebral artery occlusion in rats as assessed using magnetic resonance imaging and histology. <b>1995</b> , 15, 1-11		90
1339	Evolution of regional changes in apparent diffusion coefficient during focal ischemia of rat brain: the relationship of quantitative diffusion NMR imaging to reduction in cerebral blood flow and metabolic disturbances. <b>1995</b> , 15, 1002-11		277
1338	Spreading waves of a reduced diffusion coefficient of water in normal and ischemic rat brain. <b>1995</b> , 15, 179-87		102



1337	Identification of collaterally perfused areas following focal cerebral ischemia in the rat by comparison of gradient echo and diffusion-weighted MRI. <b>1995</b> , 15, 578-86	82
1336	Quantitative magnetic resonance and isotopic imaging: early evaluation of radiation injury to the brain. <b>1995</b> , 32, 121-8	18
1335	Resuscitation from cardiac arrest in cats: influence of epinephrine dosage on brain recovery. <b>1995</b> , 30, 251-62	16
1334	Relationship between diffusion-weighted MR images, cerebral blood flow, and energy state in experimental brain infarction. <b>1995</b> , 13, 73-80	213
1333	Imaging of the apparent diffusion coefficient for the evaluation of cerebral metabolic recovery after cardiac arrest. <b>1995</b> , 13, 781-90	42
1332	Diffusion-weighted imaging in epilepsy. <b>1995</b> , 13, 1227-31	32
1331	From NMR diffraction and zeugmatography to modern imaging and beyond. <b>1995</b> , 28, 87-135	16
1330	Diffusion-weighted MR imaging of experimental brain tumors in rats. <b>1995</b> , 3, 13-20	32
1329	Nitric oxide synthase inhibitor NG-nitro-L-arginine methyl ester decreases ischemic damage in reversible focal cerebral ischemia in hyperglycemic rats. <b>1995</b> , 677, 204-12	53
1328	Evaluation of recombinant human basic fibroblast growth factor (rhbFGF) as a cerebroprotective agent using high speed MR imaging. <b>1995</b> , 699, 51-61	7
1327	Theoretical Aspects of Neuroprotection in Acute Ischaemic Stroke. I: Basic Mechanisms. <b>1995</b> , vmr-6, 283-298	2
1326	New magnetic resonance imaging techniques for the evaluation of traumatic brain injury. <b>1995</b> , 12, 573-7	57
1325	Review : Mapping Brain Pathophysiology and Higher Cortical Function with Magnetic Resonance Imaging. <b>1995</b> , 1, 221-235	3
1324	Magnetic resonance axonography of the rat spinal cord: postmortem effects. <b>1995</b> , 83, 1023-8	26
1323	Effect of mannitol on focal cerebral ischemia evaluated by somatosensory-evoked potentials and magnetic resonance imaging. <b>1995</b> , 44, 55-61; discussion 61-2	12
1322	Three-dimensional anisotropy contrast magnetic resonance imaging of the rat nervous system: MR axonography. <b>1995</b> , 22, 389-98	74
1321	Magnetic resonance imaging of NMDA-induced lesion of the medial preoptic area and changes in sleep, temperature and sex behaviour. <b>1996</b> , 24, 207-14	21
1320	Mechanical lesions of the fimbria fornix in rat brain studied by 1H-magnetic resonance imaging. Evidence for long-lasting dynamic alterations in the ipsilateral ventricular system. <b>1996</b> , 6, 21-7	2

1319	Delayed progression of cytotoxic oedema in focal cerebral ischemia after treatment with a torasemide derivative: a diffusion-weighted magnetic resonance imaging study. <b>1996</b> , 213, 123-6		6
1318	Magnetic resonance imaging of temporal changes of neurotoxic lesion in the rat. <b>1996</b> , 40, 273-7		17
1317	Magnetic resonance studies of the effects of cardiovascular surgery on brain metabolism and function. <b>1996</b> , 10, 127-37; quiz 137-8		9
1316	Stable xenon CT in patients with chronic cerebrovascular disease. <b>1996</b> , 38 Suppl 1, S47-50		1
1315	Magnetic Resonance Imaging of White Matter Disease. <b>1996</b> ,		
1314	Ischemic Stroke. <b>1996</b> ,		
1313	Clustering multidimensional MR images to detect metabolic changes in different tissue classes. <b>1996</b> ,		
1312	Functional MR Imaging in Hyperacute Cerebral Ischaemia The Rationale of Diffusion-Weighted Imaging: Razionale della tecnica Diffusion-Weighted Imaging (DWI). <b>1996</b> , 9, 529-540		2
1311	Acute Stroke Diagnosis with Magnetic Resonance Imaging. <b>1996</b> , 30, 209-242		
1310	Animal Models of Stroke Studied by MRI. <b>1996</b> ,		
1309	Developmental changes in NMDA-induced cell swelling and its transition to necrosis measured with 1H magnetic resonance imaging, impedance and histology. <b>1996</b> , 93, 109-19		12
1308	Delayed hyperglycemia and intracellular acidosis during focal cerebral ischemia in cats. <b>1996</b> , 138, 745-51		5
1307	Time-course and treatment response with SNX-111, an N-type calcium channel blocker, in a rodent model of focal cerebral ischemia using diffusion-weighted MRI. <b>1996</b> , 739, 36-45		57
1306	Magnetic resonance microscopy with cardiovascular applications. <b>1996</b> , 6, 247-54		3
1305	Effects of osmotically driven cell volume changes on diffusion-weighted imaging of the rat optic nerve. <i>Magnetic Resonance in Medicine</i> , <b>1996</b> , 35, 162-7	4.4	95
1304	Evaluation of intracellular diffusion in normal and globally-ischemic rat brain via 133Cs NMR. <i>Magnetic Resonance in Medicine</i> , <b>1996</b> , 35, 329-35	4.4	70
1303	Encoding of anisotropic diffusion with tetrahedral gradients: a general mathematical diffusion formalism and experimental results. <i>Magnetic Resonance in Medicine</i> , <b>1996</b> , 35, 399-412	4.4	241
1302	Cerebrovascular changes in rats during ischemia and reperfusion: a comparison of BOLD and first pass bolus tracking techniques. <i>Magnetic Resonance in Medicine</i> , <b>1996</b> , 35, 489-96	4.4	17

1301	Single-shot diffusion MRI of human brain on a conventional clinical instrument. <i>Magnetic Resonance in Medicine</i> , <b>1996</b> , 35, 671-7	4.4	43
1300	Diffusion-weighted interleaved echo-planar imaging with a pair of orthogonal navigator echoes. <i>Magnetic Resonance in Medicine</i> , <b>1996</b> , 35, 763-70	4.4	190
1299	Dynamic changes in water ADC, energy metabolism, extracellular space volume, and tortuosity in neonatal rat brain during global ischemia. <i>Magnetic Resonance in Medicine</i> , <b>1996</b> , 36, 52-60	4.4	225
1298	Apparent diffusion coefficients in benign and secondary progressive multiple sclerosis by nuclear magnetic resonance. <i>Magnetic Resonance in Medicine</i> , <b>1996</b> , 36, 393-400	4.4	166
1297	High resolution measurement of cerebral blood flow using intravascular tracer bolus passages. Part II: Experimental comparison and preliminary results. <i>Magnetic Resonance in Medicine</i> , <b>1996</b> , 36, 726-36	4.4	739
1296	MR spectroscopic imaging and diffusion-weighted MRI for early detection of kainate-induced status epilepticus in the rat. <i>Magnetic Resonance in Medicine</i> , <b>1996</b> , 36, 821-8	4.4	64
1295	Biexponential diffusion attenuation in various states of brain tissue: implications for diffusion-weighted imaging. <i>Magnetic Resonance in Medicine</i> , <b>1996</b> , 36, 847-57	4.4	486
1294	Unraveling diffusion constants in biological tissue by combining Carr-Purcell-Meiboom-Gill imaging and pulsed field gradient NMR. <i>Magnetic Resonance in Medicine</i> , <b>1996</b> , 36, 907-13	4.4	72
1293	Diffusion of metabolites in normal and ischemic rat brain measured by localized <sup>1</sup> H MRS. <i>Magnetic Resonance in Medicine</i> , <b>1996</b> , 36, 914-22	4.4	122
1292	The role of spreading depression in focal ischemia evaluated by diffusion mapping. <b>1996</b> , 39, 308-18		211
1291	Status of the neonatal rat brain after NMDA-induced excitotoxic injury as measured by MRI, MRS and metabolic imaging. <b>1996</b> , 9, 84-92		30
1290	The protective effect of MK-801 on infarct development over a period of 24 h as assessed by diffusion-weighted magnetic resonance imaging. <b>1996</b> , 9, 241-8		7
1289	New aspects of brain physiology. <b>1996</b> , 9, 279-96		24
1288	Discrimination of brain abscess from necrotic or cystic tumors by diffusion-weighted echo planar imaging. <b>1996</b> , 14, 1113-6		292
1287	A comparison of the early development of ischemic brain damage in normoglycemic and hyperglycemic rats using magnetic resonance imaging. <b>1996</b> , 109, 33-42		38
1286	MR detection of cortical spreading depression immediately after focal ischemia in the rat. <b>1996</b> , 16, 214-20		112
1285	Correlation of the average water diffusion constant with cerebral blood flow and ischemic damage after transient middle cerebral artery occlusion in cats. <b>1996</b> , 16, 881-91		69
1284	Potassium-induced cortical spreading depressions during focal cerebral ischemia in rats: contribution to lesion growth assessed by diffusion-weighted NMR and biochemical imaging. <b>1996</b> , 16, 1090-9		236

1283	Experimental cerebral venous thrombosis: evaluation using magnetic resonance imaging. <b>1996</b> , 16, 1353-61	105
1282	Early detection of treatment response by diffusion-weighted 1H-NMR spectroscopy in a murine tumour in vivo. <b>1996</b> , 73, 61-4	161
1281	Solvent diffusion in ordered macrofluids: A stochastic simulation study of the obstruction effect. <b>1996</b> , 104, 6807-6817	68
1280	Characterization of edema by diffusion-weighted imaging in experimental traumatic brain injury. <b>1996</b> , 84, 97-103	208
1279	Advances and Technical Standards in Neurosurgery. <b>1997</b> ,	
1278	Diffusion weighted magnetic resonance imaging of compromised tissue in stroke. <b>1997</b> , 77, 38-41	22
1277	The Extracellular Space in the CNS: Its Regulation, Volume and Geometry in Normal and Pathological Neuronal Function. <b>1997</b> , 3, 28-41	118
1276	Detection of delayed cerebral vasospasm, after rupture of intracranial aneurysms, by magnetic resonance angiography. <b>1997</b> , 40, 748-53; discussion 753-4	32
1275	Diffusion-weighted magnetic resonance imaging characteristics of hemorrhagic transformation in experimental embolic stroke. <b>1997</b> , 7, 227-31	13
1274	MRI developments in perspective. <b>1997</b> , 70 Spec No, S70-80	7
1273	Therapeutic Window in Ischaemic Stroke. <b>1997</b> , 8, 474-491	12
1272	The temporal evolution of MRI tissue signatures after transient middle cerebral artery occlusion in rat. <b>1997</b> , 145, 15-23	87
1271	Indications de l'imagerie par résonance magnétique à la phase initiale des accidents vasculaires cérébraux. <b>1997</b> , 6, 524-535	
1270	New histological and physiological stains derived from diffusion-tensor MR images. <b>1997</b> , 820, 123-38	115
1269	Magnetic resonance microscopy in basic studies of brain structure and function. <b>1997</b> , 820, 139-47; discussion 147-8	30
1268	Detection of cerebral ischemia in systemic lupus erythematosus by magnetic resonance techniques. <b>1997</b> , 823, 120-31	4
1267	MRI-MRS of the brain in systemic lupus erythematosus. How do we use it to understand causes of clinical signs?. <b>1997</b> , 823, 169-84	7
1266	Diffusion in porous materials as probed by pulsed gradient NMR measurements. <b>1997</b> , 241, 122-127	17

1265	MRI measurements of water diffusion and cerebral perfusion: their relationship in a rat model of focal cerebral ischemia. <b>1997</b> , 17, 183-90		40
1264	Improved perfusion with rt-PA and hirulog in a rabbit model of embolic stroke. <b>1997</b> , 17, 401-11		32
1263	Perfusion deficit parallels exacerbation of cerebral ischemia/reperfusion injury in hyperglycemic rats. <b>1997</b> , 17, 553-9		95
1262	Hyperglycemia delays terminal depolarization and enhances repolarization after peri-infarct spreading depression as measured by serial diffusion MR mapping. <b>1997</b> , 17, 591-5		23
1261	Hydroxyl radical formation in hyperglycemic rats during middle cerebral artery occlusion/reperfusion. <b>1997</b> , 23, 986-95		37
1260	Regional assessment of tissue oxygenation and the temporal evolution of hemodynamic parameters and water diffusion during acute focal ischemia in rat brain. <b>1997</b> , 750, 161-70		46
1259	The influence of preischemic hyperglycemia on acute changes in the apparent diffusion coefficient of brain water following global ischemia in rats. <b>1997</b> , 757, 139-45		16
1258	Prediction of delayed ischemic injury with diffusion-weighted MRI following temporary middle cerebral artery occlusion in rats. <b>1997</b> , 760, 42-51		18
1257	[Diffusion-weighted magnetic resonance imaging in the diagnosis of cerebral infarct]. <b>1997</b> , 37, 859-64		6
1256	Diffusion anisotropy in excised normal rat spinal cord measured by NMR microscopy. <b>1997</b> , 15, 441-50		77
1255	Diffusion- and T2-weighted MRI of closed-head injury in rats: a time course study and correlation with histology. <b>1997</b> , 15, 77-85		75
1254	Optimised diffusion-weighting for measurement of apparent diffusion coefficient (ADC) in human brain. <b>1997</b> , 15, 771-84		157
1253	Diffusion-weighted MRI: an ECG for "brain attack"?. <b>1997</b> , 41, 565-6		51
1252	Clinical utility of diffusion-weighted magnetic resonance imaging in the assessment of ischemic stroke. <b>1997</b> , 41, 574-80		437
1251	Enlargement of human cerebral ischemic lesion volumes measured by diffusion-weighted magnetic resonance imaging. <b>1997</b> , 41, 581-9		448
1250	Ischemic lesion volumes in acute stroke by diffusion-weighted magnetic resonance imaging correlate with clinical outcome. <b>1997</b> , 42, 164-70		339
1249	Application of contrast agents in the evaluation of stroke: conventional MR and echo-planar MR imaging. <i>Journal of Magnetic Resonance Imaging</i> , <b>1997</b> , 7, 23-8	5.6	31
1248	Physiologic measurements by contrast-enhanced MR imaging: expectations and limitations. <i>Journal of Magnetic Resonance Imaging</i> , <b>1997</b> , 7, 82-90	5.6	126

1247	Progression of a focal ischemic lesion in rat brain during treatment with a novel glycine/NMDA antagonist: an in vivo three-dimensional diffusion-weighted MR microscopy study. <i>Journal of Magnetic Resonance Imaging</i> , <b>1997</b> , 7, 739-44	5.6	13
1246	Perfusion-weighted MRI using gadobutrol as a contrast agent in a rat stroke model. <i>Journal of Magnetic Resonance Imaging</i> , <b>1997</b> , 7, 1109-15	5.6	40
1245	An analytical model of restricted diffusion in bovine optic nerve. <i>Magnetic Resonance in Medicine</i> , <b>1997</b> , 37, 103-11	4.4	393
1244	Cerebrospinal fluid-suppressed high-resolution diffusion imaging of human brain. <i>Magnetic Resonance in Medicine</i> , <b>1997</b> , 37, 119-23	4.4	70
1243	Neuronal nitric oxide synthase mutant mice show smaller infarcts and attenuated apparent diffusion coefficient changes in the peri-infarct zone during focal cerebral ischemia. <i>Magnetic Resonance in Medicine</i> , <b>1997</b> , 37, 170-5	4.4	54
1242	In vivo observation of anisotropic motion of brain water using 2H double quantum filtered NMR spectroscopy. <i>Magnetic Resonance in Medicine</i> , <b>1997</b> , 37, 197-203	4.4	20
1241	Effect of temperature in focal ischemia of rat brain studied by 31P and 1H spectroscopic imaging. <i>Magnetic Resonance in Medicine</i> , <b>1997</b> , 37, 346-54	4.4	15
1240	Numerical model for calculation of apparent diffusion coefficients (ADC) in permeable cylinders--comparison with measured ADC in spinal cord white matter. <i>Magnetic Resonance in Medicine</i> , <b>1997</b> , 37, 387-94	4.4	63
1239	A new diffusion SSFP imaging technique. <i>Magnetic Resonance in Medicine</i> , <b>1997</b> , 37, 716-22	4.4	27
1238	Diffusion-weighted multiple shot echo planar imaging of humans without navigation. <i>Magnetic Resonance in Medicine</i> , <b>1997</b> , 38, 82-8	4.4	71
1237	SPLICE: sub-second diffusion-sensitive MR imaging using a modified fast spin-echo acquisition mode. <i>Magnetic Resonance in Medicine</i> , <b>1997</b> , 38, 638-44	4.4	100
1236	Effects of diffusion anisotropy on lesion delineation in a rat model of cerebral ischemia. <i>Magnetic Resonance in Medicine</i> , <b>1997</b> , 38, 662-8	4.4	59
1235	Localized q-space imaging of the mouse brain. <i>Magnetic Resonance in Medicine</i> , <b>1997</b> , 38, 930-7	4.4	61
1234	MR microscopy of perfused brain slices. <i>Magnetic Resonance in Medicine</i> , <b>1997</b> , 38, 1012-5	4.4	30
1233	The application of diffusion-weighted line-scanning for the rapid assessment of water ADC changes in stroke at high magnetic fields. <b>1997</b> , 10, 79-86		10
1232	Diffusion imaging of human breast. <b>1997</b> , 10, 348-52		67
1231	Functional, physiological, and metabolic toolbox for clinical magnetic resonance imaging: Integration of acquisition and analysis strategies. <b>1997</b> , 8, 572-581		13
1230	Diffusion measurement in phantoms and tissues using SLIM localization. <i>Journal of Magnetic Resonance</i> , <b>1997</b> , 129, 161-4	3	4

1229	Pathophysiology of the ischemic penumbra--revision of a concept. <b>1998</b> , 18, 621-38		73
1228	Magnetic resonance imaging of acute stroke. <b>1998</b> , 18, 583-609		493
1227	Characterization of middle cerebral artery occlusion infarct development in the rat using fast nuclear magnetic resonance proton spectroscopic imaging and diffusion-weighted imaging. <b>1998</b> , 18, 749-57		22
1226	Diffusion-, T2-, and perfusion-weighted nuclear magnetic resonance imaging of middle cerebral artery embolic stroke and recombinant tissue plasminogen activator intervention in the rat. <b>1998</b> , 18, 758-67		98
1225	Diffusion of radiotracers in normal and ischemic brain slices. <b>1998</b> , 18, 776-802		33
1224	Noninvasive detection of cerebral hypoperfusion and reversible ischemia from reductions in the magnetic resonance imaging relaxation time, T2. <b>1998</b> , 18, 911-20		81
1223	Magnetic resonance imaging assessment of cerebral hemodynamics during spreading depression in rats. <b>1998</b> , 18, 1008-17		60
1222	Diffusion, perfusion, and T2 magnetic resonance imaging of anti-intercellular adhesion molecule 1 antibody treatment of transient middle cerebral artery occlusion in rat. <b>1998</b> , 788, 191-201		13
1221	The influence of preischemic hyperglycemia on acute changes in brain water ADCw following focal ischemia in rats. <b>1998</b> , 788, 137-43		10
1220	Effect of nitric oxide synthase inhibitor on a hyperglycemic rat model of reversible focal ischemia: detection of excitatory amino acids release and hydroxyl radical formation. <b>1998</b> , 791, 146-56		48
1219	The effect of eliprodil on the evolution of a focal cerebral ischaemia in vivo. <b>1998</b> , 352, 29-35		7
1218	Posthemorrhagic hydrocephalus and brain injury in the preterm infant: dilemmas in diagnosis and management. <b>1998</b> , 5, 161-79		33
1217	Non-mono-exponential attenuation of water and N-acetyl aspartate signals due to diffusion in brain tissue. <i>Journal of Magnetic Resonance</i> , <b>1998</b> , 131, 69-85	3	187
1216	In vivo and in vitro bi-exponential diffusion of N-acetyl aspartate (NAA) in rat brain: a potential structural probe?. <b>1998</b> , 11, 67-74		53
1215	On the correlation between the water diffusion coefficient and oxygen tension in RIF-1 tumors. <b>1998</b> , 11, 120-30		22
1214	High-resolution in vivo measurements of transverse relaxation times in rats at 7 Tesla. <i>Magnetic Resonance in Medicine</i> , <b>1998</b> , 39, 285-90	4-4	59
1213	Proton T2 relaxation of cerebral metabolites during transient global ischemia in rat brain. <i>Magnetic Resonance in Medicine</i> , <b>1998</b> , 39, 647-50	4-4	11
1212	Temporal and regional changes during focal ischemia in rat brain studied by proton spectroscopic imaging and quantitative diffusion NMR imaging. <i>Magnetic Resonance in Medicine</i> , <b>1998</b> , 39, 878-88	4-4	54

1211	A quantitative method for fast diffusion imaging using magnetization-prepared TurboFLASH. <i>Magnetic Resonance in Medicine</i> , <b>1998</b> , 39, 950-60	4.4	48
1210	Evaluation of extra- and intracellular apparent diffusion in normal and globally ischemic rat brain via <sup>19</sup> F NMR. <i>Magnetic Resonance in Medicine</i> , <b>1998</b> , 40, 1-13	4.4	209
1209	Single-shot diffusion-weighted trace imaging on a clinical scanner. <i>Magnetic Resonance in Medicine</i> , <b>1998</b> , 40, 622-8	4.4	21
1208	Abstracts (Continue in Part XII). <b>1998</b> , 1998, 551-600		
1207	Determination of focal ischemic lesion volume in the rat brain using multispectral analysis. <i>Journal of Magnetic Resonance Imaging</i> , <b>1998</b> , 8, 1266-78	5.6	26
1206	A phantom for diffusion-weighted imaging of acute stroke. <i>Journal of Magnetic Resonance Imaging</i> , <b>1998</b> , 8, 1349-54	5.6	61
1205	Time course of microglia activation and apoptosis in various brain regions after permanent focal cerebral ischemia in mice. <b>1998</b> , 96, 172-8		108
1204	MR microscopy of water diffusion tensor in biological systems. <b>1998</b> , 15, 333-341		6
1203	[Neuroradiologic diagnosis in acute arterial cerebral infarct. Current status of new methods]. <b>1998</b> , 69, 465-71		21
1202	Signal losses in diffusion preparation: Comparison between spin-echo, stimulated echo and SEASON. <b>1998</b> , 6, 53-61		1
1201	Neuroprotective role of ornithine decarboxylase activation in transient focal cerebral ischaemia: a study using ornithine decarboxylase-overexpressing transgenic rats. <b>1998</b> , 10, 2046-55		28
1200	Mismatch between cerebral blood volume and flow index during transient focal ischemia studied with MRI and GD-BOPTA. <b>1998</b> , 16, 97-103		23
1199	Quantitative diffusion coefficient maps using fast spin-echo MRI. <b>1998</b> , 16, 877-86		29
1198	In vivo echo-planar imaging of rat spinal cord. <b>1998</b> , 16, 1249-55		31
1197	A theoretical study of the effect of experimental noise on the measurement of anisotropy in diffusion imaging. <b>1998</b> , 16, 773-85		166
1196	Multicomponent water proton transverse relaxation and T2-discriminated water diffusion in myelinated and nonmyelinated nerve. <b>1998</b> , 16, 1201-10		109
1195	Diffusion- and perfusion-weighted NMR imaging study of middle cerebral artery thrombotic focal ischemia and rt-PA intervention in rat. <b>1998</b> , 12, 33-43		3
1194	Extracellular space structure revealed by diffusion analysis. <b>1998</b> , 21, 207-15		724



1193	Signal losses in diffusion preparation: comparison between spin-echo, stimulated echo and SEASON. <b>1998</b> , 6, 53-61	12
1192	Neuroimaging of language and aphasia after stroke. <b>1998</b> , 7, 230-3	6
1191	Diffusion- and T2-weighted increases in magnetic resonance images of immature brain during hypoxia-ischemia: transient reversal posthypoxia. <b>1998</b> , 150, 321-8	60
1190	Distinct roles for sodium, chloride, and calcium in excitotoxic dendritic injury and recovery. <b>1998</b> , 154, 241-58	116
1189	Preliminary clinical-radiological assessment of a MR tissue signature model in human stroke. <b>1998</b> , 156, 158-66	10
1188	Spinal cord neural anatomy in rats examined by in vivo magnetic resonance microscopy. <b>1998</b> , 23, 589-99	3
1187	Diffusion-weighted magnetic resonance imaging in acute stroke. <b>1998</b> , 29, 1783-90	345
1186	Acute cerebral ischemic infarction: a pathophysiologic review and radiologic perspective. <b>1998</b> , 171, 73-84	54
1185	Cerebral infarction: time course of signal intensity changes on diffusion-weighted MR images. <b>1998</b> , 171, 791-5	124
1184	A reproducible model of circulatory arrest and remote resuscitation in rats for NMR investigation. <b>1998</b> , 29, 1229-38; discussion 1238-9	38
1183	A new method to improve in-bore middle cerebral artery occlusion in rats: demonstration with diffusion- and perfusion-weighted imaging. <b>1998</b> , 29, 1715-9; discussion 1719-20	53
1182	Clinical and Radiological Patterns of Human Stroke as Defined by Echo-Planar Diffusion-Weighted MR Imaging. <b>1998</b> , 11, 227-230	1
1181	Diffusion MR imaging during acute subarachnoid hemorrhage in rats. <b>1998</b> , 29, 2155-61	88
1180	Diffusion and perfusion MRI, measurements of acute stroke events and outcome: present practice and future hope. <b>1998</b> , 8 Suppl 2, 8-16	9
1179	Dynamics of cerebral tissue injury and perfusion after temporary hypoxia-ischemia in the rat: evidence for region-specific sensitivity and delayed damage. <b>1998</b> , 29, 695-704	139
1178	Diffusion-weighted magnetic resonance imaging confirms marked neuroprotective efficacy of albumin therapy in focal cerebral ischemia. <b>1998</b> , 29, 2587-99	139
1177	Regional ischemia and ischemic injury in patients with acute middle cerebral artery stroke as defined by early diffusion-weighted and perfusion-weighted MRI. <b>1998</b> , 29, 939-43	242
1176	[Improved diagnosis of early cerebral infarct by the combined use of diffusion and perfusion]. <b>1998</b> , 168, 493-501	12

1175	Experience with diffusion-weighted imaging in an acute stroke unit. <b>1998</b> , 8, 135-43	13
1174	Delayed reduction of tissue water diffusion after myocardial ischemia. <b>1998</b> , 275, H697-702	12
1173	Indication of thrombolysis for middle cerebral artery occlusion using MR diffusion - weighted image. <b>1999</b> , 5 Suppl 1, 137-44	
1172	Magnetic resonance imaging and ischaemic stroke. <b>1999</b> , 60, 343-7	
1171	Use of diffusion-weighted MRI and neurological deficit scores to demonstrate beneficial effects of isradipine in a rat model of focal ischemia. <b>1999</b> , 58, 292-9	21
1170	Diffusion and perfusion magnetic resonance imaging following closed head injury in rats. <b>1999</b> , 16, 1165-76	61
1169	Diffusion-weighted MR imaging: diagnostic accuracy in patients imaged within 6 hours of stroke symptom onset. <b>1999</b> , 210, 155-62	501
1168	Acute cerebral infarction: quantification of spin-density and T2 shine-through phenomena on diffusion-weighted MR images. <b>1999</b> , 212, 333-9	189
1167	Imaging of acute cerebral ischemia. <b>1999</b> , 212, 307-24	146
1166	Fortschritte in der klinischen Neuroradiologie. <b>1999</b> , 26, 01-07	9
1165	Echoplanar MRI in patients with an acute stroke syndrome. <b>1999</b> , 72, 914-21	
1164	Comprehensive MR imaging protocol for stroke management: tissue sodium concentration as a measure of tissue viability in nonhuman primate studies and in clinical studies. <b>1999</b> , 213, 156-66	130
1163	Pathophysiological topography of acute ischemia by combined diffusion-weighted and perfusion MRI. <b>1999</b> , 30, 2043-52	252
1162	Absent middle cerebral artery flow predicts the presence and evolution of the ischemic penumbra. <b>1999</b> , 52, 1125-32	135
1161	Diffusion tensor MRI assesses corticospinal tract damage in ALS. <b>1999</b> , 53, 1051-8	336
1160	Normal diffusion-weighted MRI during stroke-like deficits. <b>1999</b> , 52, 1784-92	220
1159	Diffusion mapping applied to mesial temporal lobe epilepsy: preliminary observations. <b>1999</b> , 53, 173-6	89
1158	Neuroprotection in acute ischaemic stroke. II: Clinical potential. <b>1999</b> , 4, 149-63	9

1157	Diffusion-weighted imaging with navigated interleaved echo-planar imaging and a conventional gradient system. <b>1999</b> , 211, 799-806		82
1156	Correction of eddy current-induced artefacts in diffusion tensor imaging using iterative cross-correlation. <b>1999</b> , 17, 1011-24		85
1155	Periictal diffusion-weighted imaging in a case of lesional epilepsy. <b>1999</b> , 40, 1667-71		59
1154	Changes in the diffusion of water and intracellular metabolites after excitotoxic injury and global ischemia in neonatal rat brain. <b>1999</b> , 19, 341-9		88
1153	Spatial assessment of the dynamics of lactate formation in focal ischemic rat brain. <b>1999</b> , 19, 376-9		13
1152	Assessment of induced rat mammary tumour response to chemotherapy using the apparent diffusion coefficient of tissue water as determined by diffusion-weighted <sup>1</sup> H-NMR spectroscopy in vivo. <b>1999</b> , 8, 20-6		14
1151	Enhanced ornithine decarboxylase activity is associated with attenuated rate of damage evolution and reduction of infarct volume in transient middle cerebral artery occlusion in the rat. <b>1999</b> , 826, 325-9		12
1150	Transient MRI-detected water apparent diffusion coefficient reduction correlates with c-fos mRNA but not hsp70 mRNA induction during focal cerebral ischemia in rats. <b>1999</b> , 839, 7-22		16
1149	Correlation between tissue depolarizations and damage in focal ischemic rat brain. <b>1999</b> , 840, 194-205		129
1148	The nature of penumbral depolarizations following focal cerebral ischemia in the rat. <b>1999</b> , 842, 148-58		41
1147	Blunt cerebrovascular injuries. <b>1999</b> , 36, 505-99		24
1146	Diffusion-weighted magnetic resonance imaging: theory and potential applications to child neurology. <b>1999</b> , 6, 87-100		29
1145	Reversal of acute apparent diffusion coefficient abnormalities and delayed neuronal death following transient focal cerebral ischemia in rats. <b>1999</b> , 46, 333-42		127
1144	Longitudinal magnetic resonance imaging study of perfusion and diffusion in stroke: evolution of lesion volume and correlation with clinical outcome. <b>1999</b> , 46, 568-78		370
1143	Neuroprotective effects of a novel broad-spectrum cation channel blocker, LOE 908 MS, on experimental focal ischemia: a multispectral study. <i>Journal of Magnetic Resonance Imaging</i> , <b>1999</b> , 10, 138-45	5.6	13
1142	Clinical application of perfusion and diffusion MR imaging in acute ischemic stroke. <i>Journal of Magnetic Resonance Imaging</i> , <b>1999</b> , 10, 305-9	5.6	26
1141	The effect of ouabain on water diffusion in the rat hippocampal slice measured by high resolution NMR imaging. <i>Magnetic Resonance in Medicine</i> , <b>1999</b> , 41, 137-42	4.4	85
1140	ADC mapping by means of a single-shot spiral MRI technique with application in acute cerebral ischemia. <i>Magnetic Resonance in Medicine</i> , <b>1999</b> , 41, 143-7	4.4	58

1139	Correction for eddy current induced Bo shifts in diffusion-weighted echo-planar imaging. <i>Magnetic Resonance in Medicine</i> , <b>1999</b> , 41, 95-102	4.4	57
1138	In vivo measurement of ADC change due to intravascular susceptibility variation. <i>Magnetic Resonance in Medicine</i> , <b>1999</b> , 41, 236-40	4.4	70
1137	Apparent water diffusion measurements in electrically stimulated neural tissue. <i>Magnetic Resonance in Medicine</i> , <b>1999</b> , 41, 241-6	4.4	22
1136	Early changes in water diffusion, perfusion, T1, and T2 during focal cerebral ischemia in the rat studied at 8.5 T. <i>Magnetic Resonance in Medicine</i> , <b>1999</b> , 41, 479-85	4.4	124
1135	The relationship between magnetic resonance diffusion imaging and autoradiographic markers of cerebral blood flow and hypoxia in an animal stroke model. <i>Magnetic Resonance in Medicine</i> , <b>1999</b> , 41, 706-14	4.4	19
1134	A novel fast split-echo multi-shot diffusion-weighted MRI method using navigator echoes. <i>Magnetic Resonance in Medicine</i> , <b>1999</b> , 41, 734-42	4.4	24
1133	An echo-shifted gradient-echo MRI method for efficient diffusion weighting. <i>Magnetic Resonance in Medicine</i> , <b>1999</b> , 41, 1000-8	4.4	15
1132	Quantitative magnetic resonance imaging assessment of cerebral ischemia in rat using on-resonance T(1) in the rotating frame. <i>Magnetic Resonance in Medicine</i> , <b>1999</b> , 42, 268-76	4.4	66
1131	The effect of residual Nyquist ghost in quantitative echo-planar diffusion imaging. <i>Magnetic Resonance in Medicine</i> , <b>1999</b> , 42, 385-92	4.4	21
1130	Anisotropic and restricted diffusion of water in the sciatic nerve: A (2)H double-quantum-filtered NMR study. <i>Magnetic Resonance in Medicine</i> , <b>1999</b> , 42, 461-6	4.4	18
1129	MRI measurement of cell volume fraction in the perfused rat hippocampal slice. <i>Magnetic Resonance in Medicine</i> , <b>1999</b> , 42, 603-7	4.4	9
1128	Diffusion-weighted single-shot line scan imaging of the human brain. <i>Magnetic Resonance in Medicine</i> , <b>1999</b> , 42, 772-8	4.4	26
1127	Effects of blood sugar level on rat transient focal brain ischemia consecutively observed by diffusion-weighted EPI and (1)H echo planar spectroscopic imaging. <i>Magnetic Resonance in Medicine</i> , <b>1999</b> , 42, 895-902	4.4	16
1126	Effect of NGF treatment on outcome measures in a rat model of middle cerebral artery occlusion. <b>1999</b> , 55, 357-69		13
1125	Structural information in neuronal tissue as revealed by q-space diffusion NMR spectroscopy of metabolites in bovine optic nerve. <b>1999</b> , 12, 335-44		87
1124	Serial magnetic resonance diffusion and hemodynamic imaging in a neonatal rabbit model of hypoxic-ischemic encephalopathy. <b>1999</b> , 12, 505-14		15
1123	Diffusion- and perfusion-weighted MR imaging of transient focal cerebral ischaemia in mice. <b>1999</b> , 12, 525-34		54
1122	Early increases in breast tumor xenograft water mobility in response to paclitaxel therapy detected by non-invasive diffusion magnetic resonance imaging. <b>1999</b> , 1, 113-7		161

1121	Expanding the window for thrombolytic therapy in acute stroke. The potential role of acute MRI for patient selection. <b>1999</b> , 30, 2230-7	219
1120	Temporal evolution of 3-nitropropionic acid-induced neurodegeneration in the rat brain by T2-weighted, diffusion-weighted, and perfusion magnetic resonance imaging. <b>1999</b> , 92, 1035-41	34
1119	Nuclear magnetic resonance imaging measurements of water diffusion in the perfused hippocampal slice during N-methyl-D-aspartate-induced excitotoxicity. <b>1999</b> , 93, 487-90	24
1118	Early detection of periventricular leukomalacia by diffusion-weighted magnetic resonance imaging techniques. <b>1999</b> , 134, 631-4	189
1117	Molecular aspects of magnetic resonance imaging and spectroscopy. <b>1999</b> , 20, 185-318	23
1116	Recent advances in imaging of cerebrovascular disease. <b>1999</b> , 37, 467-88	7
1115	In vivo diffusion-weighted magnetic resonance microscopy of rat spinal cord: effect of ischemia and intrathecal hyperbaric 5% lidocaine. <b>1999</b> , 24, 311-8	4
1114	Characterization of tissue damage in multiple sclerosis by nuclear magnetic resonance. <b>1999</b> , 354, 1675-86	73
1113	Dynamics of cerebral injury, perfusion, and blood-brain barrier changes after temporary and permanent middle cerebral artery occlusion in the rat. <b>1999</b> , 166, 91-9	81
1112	Imaging the pyramidal tract in patients with brain tumors. <b>1999</b> , 101, 4-10	52
1111	MRI abnormalities associated with partial status epilepticus. <b>1999</b> , 52, 1021-7	293
1110	Failure of Brain Supply (Ischemia, Hypoxia, Hypoglycemia). <b>1999</b> , 12, 17-26	
1109	Security extensions to DICOM. <b>1999</b> ,	
1108	The use of diffusion tensor imaging in quantifying the effect of dexamethasone on brain tumours. <b>1999</b> , 10, 1385-91	33
1107	Intra-arterial rtPA treatment of stroke assessed by diffusion- and perfusion-weighted MRI. <b>1999</b> , 30, 678-80	35
1106	Agreement and variability in the interpretation of early CT changes in stroke patients qualifying for intravenous rtPA therapy. <b>1999</b> , 30, 1528-33	242
1105	Identification of major ischemic change. Diffusion-weighted imaging versus computed tomography. <b>1999</b> , 30, 2059-65	190
1104	Rapid monitoring of diffusion, DC potential, and blood oxygenation changes during global ischemia. Effects of hypoglycemia, hyperglycemia, and TTX. <b>1999</b> , 30, 2212-22	68

1103	Reperfusion in a gerbil model of forebrain ischemia using serial magnetic resonance FAIR perfusion imaging. <b>1999</b> , 30, 1263-70	11
1102	Magnetic Resonance, General Medical. <b>2000</b> ,	
1101	Comparison of diffusion-weighted MRI and CT in acute stroke. <b>2000</b> , 54, 1557-61	206
1100	NMR spectroscopic evaluation of cerebral metabolism in hydrocephalus: a review. <b>2000</b> , 22, 51-64	32
1099	Cerebrovascular disease. <i>Circulation</i> , <b>2000</b> , 102, IV75-80	16.7 18
1098	Characterization of stroke lesions using a histogram-based data analysis including diffusion- and perfusion-weighted imaging. <b>2000</b> , 3978, 23	1
1097	Fatal hemorrhagic transformation of acute cerebral infarction after the use of abciximab. <b>2000</b> , 31, 2526-7	24
1096	Transient and permanent resolution of ischemic lesions on diffusion-weighted imaging after brief periods of focal ischemia in rats : correlation with histopathology. <b>2000</b> , 31, 946-54	202
1095	Association between physiological homeostasis and early recovery after stroke. <b>2000</b> , 31, 2518-9	17
1094	Cerebral infarctions: evaluation with single-axis versus trace diffusion-weighted MR imaging. <b>2000</b> , 174, 853-7	4
1093	There's no place like home...for some. <b>2000</b> , 31, 2521-2	2
1092	Impact on stroke subtype diagnosis of early diffusion-weighted magnetic resonance imaging and magnetic resonance angiography. <b>2000</b> , 31, 1081-9	219
1091	Diffusion and Perfusion Magnetic Resonance Imaging in Acute Ischaemic Stroke. <b>2000</b> , 13, 217-224	
1090	The time concept in ischemic stroke: misleading. <b>2000</b> , 31, 2523-5	3
1089	Is early ischemic lesion volume on diffusion-weighted imaging an independent predictor of stroke outcome? A multivariable analysis. <b>2000</b> , 31, 2597-602	183
1088	Failure to demonstrate peri-infarct depolarizations by repetitive MR diffusion imaging in acute human stroke. <b>2000</b> , 31, 2901-6	33
1087	Chlamydia pneumoniae infection and PFO-associated ischemic stroke. <b>2000</b> , 31, 2519-21	2
1086	Systematic comparison of the early outcome of angioplasty and endarterectomy for symptomatic carotid artery disease. <b>2000</b> , 31, 2522-3	0

1085	Ethnicity and equity: missing the point. <b>2000</b> , 31, 2517-8		6
1084	Combined diffusion-weighted and perfusion-weighted flow heterogeneity magnetic resonance imaging in acute stroke. <b>2000</b> , 31, 1097-103		76
1083	A study of the apparent diffusion coefficient of grey and white matter in human ischaemic stroke. <b>2000</b> , 11, 2867-74		18
1082	Changes in the apparent diffusion coefficient of water and T2 relaxation time in gerbil hippocampus after mild ischemia. <b>2000</b> , 11, 3333-6		4
1081	Diffusion- and perfusion-weighted MRI: influence of severe carotid artery stenosis on the DWI/PWI mismatch in acute stroke. <b>2000</b> , 31, 1311-7		109
1080	The devastating potential of blunt vertebral arterial injuries. <b>2000</b> , 231, 672-81		298
1079	Histogram-based characterization of healthy and ischemic brain tissues using multiparametric MR imaging including apparent diffusion coefficient maps and relaxometry. <i>Magnetic Resonance in Medicine</i> , <b>2000</b> , 43, 52-61	4.4	43
1078	Assignment of the water slow-diffusing component in the central nervous system using q-space diffusion MRS: implications for fiber tract imaging. <i>Magnetic Resonance in Medicine</i> , <b>2000</b> , 43, 191-9	4.4	162
1077	Test liquids for quantitative MRI measurements of self-diffusion coefficient in vivo. <i>Magnetic Resonance in Medicine</i> , <b>2000</b> , 43, 368-74	4.4	202
1076	High-resolution diffusion imaging using a radial turbo-spin-echo sequence: implementation, eddy current compensation, and self-navigation. <i>Journal of Magnetic Resonance</i> , <b>2000</b> , 144, 243-54	3	20
1075	Measurements of restricted diffusion using an oscillating gradient spin-echo sequence. <i>Journal of Magnetic Resonance</i> , <b>2000</b> , 147, 232-7	3	91
1074	Magnetic resonance temperature imaging for guidance of thermotherapy. <i>Journal of Magnetic Resonance Imaging</i> , <b>2000</b> , 12, 525-33	5.6	424
1073	Measurement of cell density and necrotic fraction in human melanoma xenografts by diffusion weighted magnetic resonance imaging. <i>Magnetic Resonance in Medicine</i> , <b>2000</b> , 43, 828-36	4.4	382
1072	Compartmental study of diffusion and relaxation measured in vivo in normal and ischemic rat brain and trigeminal nerve. <i>Magnetic Resonance in Medicine</i> , <b>2000</b> , 43, 837-44	4.4	52
1071	Sampling and reconstruction effects due to motion in diffusion-weighted interleaved echo planar imaging. <i>Magnetic Resonance in Medicine</i> , <b>2000</b> , 44, 101-9	4.4	93
1070	Displacement imaging of spinal cord using q-space diffusion-weighted MRI. <i>Magnetic Resonance in Medicine</i> , <b>2000</b> , 44, 713-22	4.4	175
1069	Burst excitation for quantitative diffusion imaging with multiple b-values. <i>Magnetic Resonance in Medicine</i> , <b>2000</b> , 44, 737-45	4.4	13
1068	Interrelations of T(1) and diffusion of water in acute cerebral ischemia of the rat. <i>Magnetic Resonance in Medicine</i> , <b>2000</b> , 44, 833-9	4.4	36

1067	New magnetic resonance imaging methods for cerebrovascular disease: Emerging clinical applications. <b>2000</b> , 47, 559-570	118
1066	Secondary decline in apparent diffusion coefficient and neurological outcomes after a short period of focal brain ischemia in rats. <b>2000</b> , 48, 236-244	85
1065	Effect of citicoline on ischemic lesions as measured by diffusion-weighted magnetic resonance imaging. <b>2000</b> , 48, 713-722	168
1064	Diffusion weighted imaging and magnetic resonance spectroscopy in a low flow ischaemia model due to endothelin induced vasospasm. <b>2000</b> , 13, 154-62	19
1063	Effects of cell volume fraction changes on apparent diffusion in human cells. <b>2000</b> , 18, 689-95	141
1062	Magnetic resonance imaging indexes of therapeutic efficacy of recombinant tissue plasminogen activator treatment of rat at 1 and 4 hours after embolic stroke. <b>2000</b> , 20, 21-7	43
1061	Reduction in water and metabolite apparent diffusion coefficients during energy failure involves cation-dependent mechanisms. A proton nuclear magnetic resonance study of rat cortical brain slices. <b>2000</b> , 20, 405-11	11
1060	Probability of metabolic tissue recovery after thrombolytic treatment of experimental stroke: a magnetic resonance spectroscopic imaging study in rat brain. <b>2000</b> , 20, 583-91	27
1059	Temporal changes of the apparent diffusion coefficients of water and metabolites in rats with hemispheric infarction: experimental study of transhemispheric diaschisis in the contralateral hemisphere at 7 tesla. <b>2000</b> , 20, 726-35	37
1058	Cerebral hemodynamics in human acute ischemic stroke: a study with diffusion- and perfusion-weighted magnetic resonance imaging and SPECT. <b>2000</b> , 20, 910-20	77
1057	Ischemic penumbra: evidence from functional imaging in man. <b>2000</b> , 20, 1276-93	287
1056	Is all perfusion-weighted magnetic resonance imaging for stroke equal? The temporal evolution of multiple hemodynamic parameters after focal ischemia in rats correlated with evidence of infarction. <b>2000</b> , 20, 1341-51	41
1055	Early detection of irreversible cerebral ischemia in the rat using dispersion of the magnetic resonance imaging relaxation time, T1rho. <b>2000</b> , 20, 1457-66	89
1054	High speed diffusion magnetic resonance imaging of ischemia and spontaneous periinfarct spreading depression after thromboembolic stroke in the rat. <b>2000</b> , 20, 1636-47	21
1053	Magnetic resonance assessment of acute and chronic stroke. <b>2000</b> , 43, 113-34	11
1052	Diffusion- and perfusion-weighted magnetic resonance imaging of focal cerebral ischemia and cortical spreading depression under conditions of mild hypothermia. <b>2000</b> , 885, 208-19	58
1051	Effect of a neuronal sodium channel blocker on magnetic resonance derived indices of brain water content during global cerebral ischemia. <b>2000</b> , 887, 301-8	6
1050	Magnetic resonance imaging of intramedullary spinal cord tumors. <b>2000</b> , 47, 195-210	58



1049	Diagnosis of acute ischaemic stroke with fluid-attenuated inversion recovery and diffusion-weighted sequences. <b>2000</b> , 42, 602-7	35
1048	Diffusion-weighted MRI suggests the coexistence of cytotoxic and vasogenic oedema in a case of deep cerebral venous thrombosis. <b>2000</b> , 42, 728-31	36
1047	Detectability and detection rate of acute cerebral hemisphere infarcts on CT and diffusion-weighted MRI. <b>2000</b> , 42, 722-7	43
1046	Diffusion-weighted MRI for monitoring neurovascular interventions. <b>2000</b> , 42, 134-8	100
1045	Interleukin-1beta -induced changes in blood-brain barrier permeability, apparent diffusion coefficient, and cerebral blood volume in the rat brain: a magnetic resonance study. <b>2000</b> , 20, 8153-9	192
1044	Cluster analysis of diffusion tensor magnetic resonance images in human head injury. <b>2000</b> , 47, 306-13; discussion 313-4	53
1043	Diffusion-weighted magnetic resonance imaging in the early evaluation of corticospinal tract injury to predict functional motor outcome in patients with deep intracerebral hemorrhage. <b>2000</b> , 92, 58-63	28
1042	Diffusion and perfusion magnetic resonance imaging in childhood stroke. <b>2000</b> , 15, 279-83	37
1041	Cerebral ischemic hypoxia: discrepancy between apparent diffusion coefficients and histologic changes in rats. <b>2000</b> , 215, 199-204	43
1040	Advantages of adding diffusion-weighted magnetic resonance imaging to conventional magnetic resonance imaging for evaluating acute stroke. <b>2000</b> , 57, 1311-6	78
1039	Temporal evolution of ischemic injury evaluated with diffusion-, perfusion-, and T2-weighted MRI. <b>2000</b> , 54, 689-96	93
1038	Relationship between residual cerebral blood flow and oxygen metabolism as predictive of ischemic tissue viability: sequential multitracer positron emission tomography scanning of middle cerebral artery occlusion during the critical first 6 hours after stroke in pigs. <b>2000</b> , 93, 647-57	62
1037	Extracellular space diffusion and pathological states. <b>2000</b> , 125, 155-78	49
1036	An assessment of eddy current sensitivity and correction in single-shot diffusion-weighted imaging. <b>2000</b> , 45, 3821-32	39
1035	The measurement of diffusion and perfusion in biological systems using magnetic resonance imaging. <b>2000</b> , 45, R97-138	99
1034	Diffusion-weighted magnetic resonance imaging in brain death. <b>2000</b> , 31, 539-42	55
1033	Evolution of brain injury after transient middle cerebral artery occlusion in neonatal rats. <b>2000</b> , 31, 1752-61	97
1032	Can diffusion weighted magnetic resonance imaging help differentiate stroke from stroke-like events in MELAS?. <b>2000</b> , 69, 248-50	75

1031	Cerebral hemorrhage and edema following brain biopsy in rats: significance of mean arterial blood pressure. <b>2000</b> , 92, 100-7	8
1030	Diffusion and high resolution MRI of traumatic brain injury in rats: time course and correlation with histology. <b>2000</b> , 162, 61-72	91
1029	Transgenic mice overexpressing truncated trkB neurotrophin receptors in neurons show increased susceptibility to cortical injury after focal cerebral ischemia. <b>2000</b> , 16, 87-96	71
1028	Temporal evolution of average apparent diffusion coefficient threshold to define ischemic abnormalities in a rat permanent occlusion model. <b>2000</b> , 9, 1-7	9
1027	Proton MR spectroscopy of the brain. <b>2000</b> , 21, 434-51	28
1026	Diffusion-weighted MRI of infarct growth in a rat photochemical stroke model: effect of lubeluzole. <b>2000</b> , 39, 691-702	26
1025	Reducing motion artefacts in diffusion-weighted MRI of the brain: efficacy of navigator echo correction and pulse triggering. <b>2000</b> , 42, 85-91	32
1024	Pseudotumour Cerebri. <b>2000</b> , 14, 33-49	2
1023	Diffusion-weighted MR imaging of the brain. <b>2000</b> , 217, 331-45	834
1022	Diagnostic evaluation of stroke. <b>2000</b> , 18, 357-78	10
1021	Diffusion-weighted imaging demonstrates transient cytotoxic edema involving the corpus callosum in a patient with diffuse brain injury. <b>2000</b> , 102, 135-9	61
1020	Applications of DWI in clinical neurology. <b>2001</b> , 186 Suppl 1, S25-35	50
1019	MRI analysis of the changes in apparent water diffusion coefficient, T(2) relaxation time, and cerebral blood flow and volume in the temporal evolution of cerebral infarction following permanent middle cerebral artery occlusion in rats. <b>2001</b> , 169, 56-63	36
1018	Cerebrovascular reactivity following focal brain ischemia in the rat: a functional magnetic resonance imaging study. <i>NeuroImage</i> , <b>2001</b> , 13, 339-50	7.9 14
1017	The imaging of ischaemic stroke. <b>2001</b> , 56, 171-83	30
1016	Diffusion and perfusion MRI: basic physics. <b>2001</b> , 38, 19-27	90
1015	Recent advances in the diagnosis and treatment of stroke. <b>2001</b> , 45, 317-30	4
1014	CT and MRI in the diagnosis of acute stroke and their role in thrombolysis. <b>2001</b> , 103 Suppl 1, S125-33	28

1013	Diffusion-weighted MR imaging of intracerebral hemorrhage. <b>2001</b> , 2, 183-91	83
1012	Automated three-dimensional signature model for assessing brain injury in emergent stroke. <b>2001</b> , 11 Suppl 1, 9-14	3
1011	Does anoxia induce cell swelling in carp brains? In vivo MRI measurements in crucian carp and common carp. <b>2001</b> , 85, 125-33	26
1010	Imaging of acute stroke. <b>2001</b> , 11, 143-50	17
1009	High b-value diffusion-weighted MRI of normal brain. <b>2001</b> , 25, 515-9	62
1008	Nonaccidental pediatric head injury: diffusion-weighted imaging findings. <b>2001</b> , 49, 309-18; discussion 318-20	37
1007	Early development of vasogenic edema in experimental cerebral fat embolism in cats: correlation with MRI and electron microscopic findings. <b>2001</b> , 36, 460-9	37
1006	Effects of centrally administered arginine vasopressin and atrial natriuretic peptide on the development of brain edema in hyponatremic rats. <b>2001</b> , 49, 697-704; discussion 704-5	35
1005	Prediction of hemorrhagic transformation following acute stroke: role of diffusion- and perfusion-weighted magnetic resonance imaging. <b>2001</b> , 58, 587-93	63
1004	Evolution of cerebral infarct volume assessed by diffusion-weighted magnetic resonance imaging. <b>2001</b> , 58, 613-7	86
1003	Effects of Centrally Administered Arginine Vasopressin and Atrial Natriuretic Peptide on the Development of Brain Edema in Hyponatremic Rats. <b>2001</b> , 49, 697-705	34
1002	Diffusion- and perfusion-weighted brain magnetic resonance imaging in patients with neurologic complications after cardiac surgery. <b>2001</b> , 58, 571-6	97
1001	Nonaccidental Pediatric Head Injury: Diffusion-weighted Imaging Findings. <b>2001</b> , 49, 309-320	73
1000	Regional variations in the apparent diffusion coefficient and the intracellular distribution of water in rat brain during acute focal ischemia. <b>2001</b> , 32, 1897-905	76
999	Diffusion-Weighted MR Imaging in Patients with Acute Ischaemia. <b>2001</b> , 14, 17-24	
998	Reversal of early diffusion-weighted magnetic resonance imaging abnormalities does not necessarily reflect tissue salvage in experimental cerebral ischemia. <b>2001</b> , 32, 2362-9	100
997	Diffusion property in a hamartomatous lesion of neurofibromatosis type 1. <b>2001</b> , 25, 537-9	10
996	The value of diffusion-weighted imaging for prediction of lasting deficit in acute stroke: an analysis of 134 patients with acute neurologic deficits. <b>2001</b> , 43, 435-41	7

995	The role of neuroimaging in selecting treatments for patients with acute stroke. <b>2001</b> , 1, 26-32		
994	Perfusion and diffusion magnetic resonance imaging in human cerebral venous thrombosis. <b>2001</b> , 248, 564-71		45
993	Diffusion-weighted imaging of the spine using radial k-space trajectories. <b>2001</b> , 12, 23-31		29
992	Nuclear magnetic resonance approaches to brain function studies. <b>2001</b> , 20, 85-96		
991	Use of diffusion and perfusion magnetic resonance imaging as a tool in acute stroke clinical trials. <b>2001</b> , 2, 38-44		36
990	Diffusion-weighted imaging of the spine using radial k-space trajectories. <b>2001</b> , 12, 23-31		21
989	Implications of bulk motion for diffusion-weighted imaging experiments: effects, mechanisms, and solutions. <i>Journal of Magnetic Resonance Imaging</i> , <b>2001</b> , 13, 486-95	5.6	82
988	Diffusion tensor imaging: concepts and applications. <i>Journal of Magnetic Resonance Imaging</i> , <b>2001</b> , 13, 534-46	5.6	2473
987	Diffusion-weighted magnetic resonance imaging detects early neuropathology following four vessel occlusion ischemia in the rat. <i>Journal of Magnetic Resonance Imaging</i> , <b>2001</b> , 14, 207-14	5.6	7
986	Application of magnetic resonance to animal models of cerebral ischemia. <i>Journal of Magnetic Resonance Imaging</i> , <b>2001</b> , 14, 491-509	5.6	128
985	Lactate discrimination incorporated into echo-planar spectroscopic imaging. <i>Magnetic Resonance in Medicine</i> , <b>2001</b> , 45, 568-74	4.4	4
984	Highly diffusion-sensitized MRI of brain: dissociation of gray and white matter. <i>Magnetic Resonance in Medicine</i> , <b>2001</b> , 45, 734-40	4.4	88
983	Single-shot diffusion trace (1)H NMR spectroscopy. <i>Magnetic Resonance in Medicine</i> , <b>2001</b> , 45, 741-8	4.4	42
982	Extracellular apparent diffusion in rat brain. <i>Magnetic Resonance in Medicine</i> , <b>2001</b> , 45, 801-10	4.4	65
981	Rapid three-dimensional diffusion MRI facilitates the study of acute stroke in mice. <i>Magnetic Resonance in Medicine</i> , <b>2001</b> , 46, 183-8	4.4	29
980	Cerebral T1rho relaxation time increases immediately upon global ischemia in the rat independently of blood glucose and anoxic depolarization. <i>Magnetic Resonance in Medicine</i> , <b>2001</b> , 46, 565-72	4.4	40
979	Mismatch between lactate and the apparent diffusion coefficient of water in progressive focal ischemia. <b>2001</b> , 14, 5-11		4
978	The effects of microscopic tissue parameters on the diffusion weighted magnetic resonance imaging experiment. <b>2001</b> , 14, 77-93		182

977	Comparison of diffusion, blood oxygenation, and blood volume changes during global ischemia in rats. <i>Magnetic Resonance in Medicine</i> , <b>2001</b> , 45, 10-6	4.4	11
976	Superresolution in MRI: application to human white matter fiber tract visualization by diffusion tensor imaging. <i>Magnetic Resonance in Medicine</i> , <b>2001</b> , 45, 29-35	4.4	161
975	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> , <b>2001</b> , 45, 383-9	4.4	52
974	Diffusion-weighted magnetic resonance imaging of cerebral ischemia. <b>2001</b> , 1, 326-330		
973	In-vivo tissue characterization of multiple sclerosis and other white matter diseases using magnetic resonance based techniques. <b>2001</b> , 248, 1019-29		39
972	Use of exponential diffusion imaging to determine the age of ischemic infarcts. <b>2001</b> , 11, 141-7		14
971	Relation of apparent diffusion coefficient changes and metabolic disturbances after 1 hour of focal cerebral ischemia and at different reperfusion phases in rats. <b>2001</b> , 21, 430-9		59
970	Delayed rt-PA treatment in a rat embolic stroke model: diagnosis and prognosis of ischemic injury and hemorrhagic transformation with magnetic resonance imaging. <b>2001</b> , 21, 964-71		53
969	Cortical devascularization: quantitative diffusion weighted magnetic resonance imaging and histological findings. <b>2001</b> , 915, 133-42		14
968	Diffusion tensor trace mapping in normal adult brain using single-shot EPI technique. A methodological study of the aging brain. <b>2001</b> , 42, 447-58		19
967	Magnetic Resonance Spectroscopy in Multiple Sclerosis. <b>2001</b> ,		5
966	Diffusion-weighted mr in cerebral venous thrombosis. <b>2001</b> , 11, 169-76		96
965	Transient decrease in water diffusion observed in human occipital cortex during visual stimulation. <b>2001</b> , 98, 9391-5		140
964	Functional magnetic resonance imaging of reorganization in rat brain after stroke. <b>2001</b> , 98, 12766-71		245
963	Diffusion MRI in ischemic stroke compared to pathologically verified infarction. <b>2001</b> , 56, 914-20		29
962	Neuronal damage in the interval form of CO poisoning determined by serial diffusion weighted magnetic resonance imaging plus 1H-magnetic resonance spectroscopy. <b>2001</b> , 71, 250-3		36
961	Nuclear magnetic resonance spectroscopy and imaging in animal research. <b>2001</b> , 42, 189-208		64
960	Normal brain maturation during childhood: developmental trends characterized with diffusion-tensor MR imaging. <b>2001</b> , 221, 349-58		363

959	[Clinically silent cerebral embolisms after cerebral catheter angiography]. <b>2001</b> , 173, 300-5	15
958	MR diffusion tensor imaging of white matter tract disruption in stroke at 3 T. <b>2001</b> , 74, 642-7	55
957	Diffusion-tensor MR imaging at 1.5 and 3.0 T: initial observations. <b>2001</b> , 221, 550-6	133
956	Ischemic stroke: effects of etiology and patient age on the time course of the core apparent diffusion coefficient. <b>2001</b> , 221, 27-34	95
955	Wertigkeit der Elektrophysiologie bei Hirnstammischämie und normalem diffusionsgewichteten und hoch auflösenden MRT. <b>2001</b> , 32, 135-140	6
954	Quantitative apparent diffusion coefficient measurements in term neonates for early detection of hypoxic-ischemic brain injury: initial experience. <b>2001</b> , 218, 825-33	108
953	Prediction of tissue survival after middle cerebral artery occlusion based on changes in the apparent diffusion of water. <b>2001</b> , 95, 450-8	37
952	Glial diffusion barriers during aging and pathological states. <b>2001</b> , 132, 339-63	88
951	Diffusion tensor imaging and its application to neuropsychiatric disorders. <b>2002</b> , 10, 324-36	103
950	Diffusion-weighted imaging in acute stroke--a tool of uncertain value?. <b>2002</b> , 14, 187-96	42
949	Diffusion weighted magnetic resonance imaging in the diagnosis of reversible ischaemic deficits of the brainstem. <b>2002</b> , 72, 572-5	33
948	Emphysema: hyperpolarized helium 3 diffusion MR imaging of the lungs compared with spirometric indexes--initial experience. <b>2002</b> , 222, 252-60	281
947	Changes in brain water diffusion during the 1st year of life: finally starting to understand age- and brain tissue-related normative data. <b>2002</b> , 222, 316-8	3
946	Severe ADC decreases do not predict irreversible tissue damage in humans. <b>2002</b> , 33, 79-86	250
945	Normobaric hyperoxia reduces MRI diffusion abnormalities and infarct size in experimental stroke. <b>2002</b> , 58, 945-52	171
944	Perfusion- and diffusion-weighted magnetic resonance imaging for monitoring decompressive craniectomy in animals with experimental hemispheric stroke. <b>2002</b> , 96, 933-40	34
943	Role of magnesium in the reduction of ischemic depolarization and lesion volume after experimental subarachnoid hemorrhage. <b>2002</b> , 97, 416-22	50
942	Diffusion tensor MR imaging of principal directions: a tensor tomography approach. <b>2002</b> , 47, 2737-57	8

941	Multiparametric MRI ISODATA ischemic lesion analysis: correlation with the clinical neurological deficit and single-parameter MRI techniques. <b>2002</b> , 33, 2839-44	38
940	Prediction of adverse outcome with cerebral lactate level and apparent diffusion coefficient in infants with perinatal asphyxia. <b>2002</b> , 225, 859-70	92
939	The stroke patient who woke up: clinical and radiological features, including diffusion and perfusion MRI. <b>2002</b> , 33, 988-93	179
938	Windows on the working brain: functional imaging. <b>2002</b> , 131-145	
937	Detection of acute cytotoxic changes in progressive neuronal degeneration of childhood with liver disease (Alpers-Huttenlocher syndrome) using diffusion-weighted MRI and MR spectroscopy. <b>2002</b> , 26, 641-6	17
936	Intraoperative assessment of aneurysm clipping using magnetic resonance angiography and diffusion-weighted imaging: technical case report. <b>2002</b> , 50, 893-7; discussion 897-8	40
935	Medial medullary infarction: a role of diffusion-weighted magnetic resonance imaging for stroke rehabilitation. <b>2002</b> , 81, 626-8	2
934	Noninvasive diagnosis of blunt cerebrovascular injuries: a preliminary report. <b>2002</b> , 53, 850-6	156
933	Neonatal cerebral infarction diagnosed by diffusion-weighted MRI: pseudonormalization occurs early. <b>2002</b> , 33, 1142-5	88
932	Effect of intravenous gadolinium-DTPA on diffusion-weighted images: evaluation of normal brain and infarcts. <b>2002</b> , 33, 1799-802	44
931	Progression of neuronal damage after status epilepticus and during spontaneous seizures in a rat model of temporal lobe epilepsy. <b>2002</b> , 135, 67-83	166
930	Diffusion imaging in multiple sclerosis. <b>2002</b> , 12, 71-106	32
929	Acute ischemic stroke patterns in infective and nonbacterial thrombotic endocarditis: a diffusion-weighted magnetic resonance imaging study. <b>2002</b> , 33, 1267-73	131
928	Functional neuroimaging in acute stroke. <b>2002</b> , 24, 647-57	9
927	Early false-negative diffusion-weighted imaging in brainstem infarction. <b>2002</b> , 11, 51-3	7
926	The influence of diabetes mellitus and hyperglycaemia on stroke incidence and outcome. <b>2002</b> , 9, 618-26	118
925	MR microscopy and high resolution small animal MRI: applications in neuroscience research. <b>2002</b> , 67, 393-420	172
924	Diffusion MR imaging of acute ischemic stroke. <b>2002</b> , 12, 35-53	20

923	Radiographic assessment of cranial gunshot wounds. <b>2002</b> , 12, 229-48		22
922	Diffusion-weighted imaging of the spinal column. <b>2002</b> , 12, 147-60		32
921	Diffusion Tensor MRI Methods: Historical Perspective and New Directions. <b>2002</b> , 7, 505-509		3
920	Magnetic resonance imaging in stroke trials. <b>2002</b> , 339-352		1
919	Functional MRI. <b>2002</b> , 315-349		10
918	Diffusion and the MR Signal. <b>2002</b> , 185-216		2
917	Clinical and radiological correlates of reduced cerebral blood flow measured using magnetic resonance imaging. <b>2002</b> , 59, 233-8		24
916	Diffusion magnetic resonance imaging of acute ischemic stroke. <b>2002</b> , 37, 219-29		3
915	Neuroimaging, the ischaemic penumbra, and selection of patients for acute stroke therapy. <b>2002</b> , 1, 417-25	106	
914	[Clinical impact of 18F-fluorodeoxyglucose positron emission tomography in the diagnosis of brain diseases]. <b>2002</b> , 29, 156-61		
913	Time evolution of cerebral perfusion and apparent diffusion coefficient measured by magnetic resonance imaging in a porcine stroke model. <i>Journal of Magnetic Resonance Imaging</i> , <b>2002</b> , 15, 123-9	5.6	16
912	Diffusion-weighted imaging of the spinal cord: interleaved echo-planar imaging is superior to fast spin-echo. <i>Journal of Magnetic Resonance Imaging</i> , <b>2002</b> , 15, 364-73	5.6	67
911	In vivo measurement of the apparent diffusion coefficient in normal and malignant prostatic tissues using echo-planar imaging. <i>Journal of Magnetic Resonance Imaging</i> , <b>2002</b> , 16, 196-200	5.6	197
910	Dynamic changes of ADC, perfusion, and NMR relaxation parameters in transient focal ischemia of rat brain. <i>Magnetic Resonance in Medicine</i> , <b>2002</b> , 47, 97-104	4.4	40
909	High b-value q-space analyzed diffusion-weighted MRI: application to multiple sclerosis. <i>Magnetic Resonance in Medicine</i> , <b>2002</b> , 47, 115-26	4.4	210
908	ADC characterization of region-specific response to cerebral perfusion deficit in rats by MRI at 9.4 T. <i>Magnetic Resonance in Medicine</i> , <b>2002</b> , 47, 562-70	4.4	11
907	High-resolution isotropic 3D diffusion tensor imaging of the human brain. <i>Magnetic Resonance in Medicine</i> , <b>2002</b> , 47, 837-43	4.4	54
906	Apparent diffusion of water, ions, and small molecules in the <i>Xenopus</i> oocyte is consistent with Brownian displacement. <i>Magnetic Resonance in Medicine</i> , <b>2002</b> , 48, 42-51	4.4	69



905	Diffusion tensor imaging using single-shot SENSE-EPI. <i>Magnetic Resonance in Medicine</i> , <b>2002</b> , 48, 128-36	4.4	244
904	Simultaneous diffusion MRI measurements from multiple perfused rat hippocampal slices. <i>Magnetic Resonance in Medicine</i> , <b>2002</b> , 48, 565-9	4.4	14
903	Separating changes in the intra- and extracellular water apparent diffusion coefficient following focal cerebral ischemia in the rat brain. <i>Magnetic Resonance in Medicine</i> , <b>2002</b> , 48, 826-37	4.4	88
902	Deconvolution of compartmental water diffusion coefficients in yeast-cell suspensions using combined T(1) and diffusion measurements. <i>Journal of Magnetic Resonance</i> , <b>2002</b> , 156, 52-63	3	37
901	Monitoring cytotoxic tumour treatment response by diffusion magnetic resonance imaging and proton spectroscopy. <b>2002</b> , 15, 6-17		102
900	High b-value q-space analyzed diffusion-weighted MRS and MRI in neuronal tissues - a technical review. <b>2002</b> , 15, 516-42		229
899	Diffusion tensor imaging of normal and injured developing human brain - a technical review. <b>2002</b> , 15, 543-52		326
898	The role of diffusion tensor imaging in the evaluation of ischemic brain injury - a review. <b>2002</b> , 15, 561-9		350
897	Diffusion tensor imaging in spinal cord: methods and applications - a review. <b>2002</b> , 15, 578-86		84
896	Symptomatic vasospasm after subarachnoid haemorrhage: assessment of brain damage by diffusion and perfusion-weighted MRI and single-photon emission computed tomography. <b>2002</b> , 44, 610-6		42
895	Apparent diffusion coefficient mapping of infarcted tissue and the ischaemic penumbra in acute stroke. <b>2002</b> , 44, 812-8		7
894	Computertomographie beim Schlaganfall. <b>2002</b> , 39, 89-99		
893	Diffusion-weighted MRI in patients with symptomatic internal carotid artery disease. <b>2002</b> , 249, 1168-74		25
892	q-Space high b value diffusion MRI of hemi-crush in rat spinal cord: evidence for spontaneous regeneration. <b>2002</b> , 20, 231-41		45
891	Study of pediatric brain development using magnetic resonance imaging of anisotropic diffusion. <b>2002</b> , 20, 327-36		31
890	Magnetic resonance studies of laryngeal tumors implanted in nude mice: effect of treatment with bleomycin and electroporation. <b>2002</b> , 20, 389-94		9
889	Brain diffusion during hyperventilation: diffusion-weighted MR-monitoring in patients with temporal lobe epilepsy and in healthy volunteers. <b>2002</b> , 51, 269-78		7
888	Early gene therapy-induced apoptotic response in BT4C gliomas by magnetic resonance relaxation contrast T1 in the rotating frame. <b>2002</b> , 9, 338-45		52

887	Quantitative T(1rho) and magnetization transfer magnetic resonance imaging of acute cerebral ischemia in the rat. <b>2002</b> , 22, 547-58		38
886	Magnetic resonance angiography of thromboembolic stroke in rats: indicator of recanalization probability and tissue survival after recombinant tissue plasminogen activator treatment. <b>2002</b> , 22, 652-62		32
885	Temporal changes in reversible cerebral ischemia on perfusion- and diffusion-weighted magnetic resonance imaging: the value of relative cerebral blood volume maps. <b>2002</b> , 44, 103-8		13
884	Non-traumatic neurological emergencies: imaging of cerebral ischemia. <b>2002</b> , 12, 1632-47		18
883	MRI characteristics of acute and subacute brainstem and thalamic infarctions: value of T2- and diffusion-weighted sequences. <b>2002</b> , 249, 33-42		51
882	In vivo mapping of functional domains and axonal connectivity in cat visual cortex using magnetic resonance imaging. <b>2003</b> , 21, 1131-40		26
881	Intermolecular double quantum coherences (iDQC) and diffusion-weighted imaging (DWI) imaging of the human brain at 1.5 T. <b>2003</b> , 21, 1151-7		10
880	[Assessment of axonal degeneration on Alzheimer's disease with diffusion tensor MRI]. <b>2003</b> , 43, 566-75		31
879	Characterization of CNS disorders and evaluation of therapy using structural and functional MRI. <b>2003</b> , 377, 973-81		14
878	Diagnosis of acute brain-stem infarcts using diffusion-weighted MRI. <b>2003</b> , 45, 352-6		33
877	Detecting the subregion proceeding to infarction in hypoperfused cerebral tissue: a study with diffusion and perfusion weighted MRI. <b>2003</b> , 45, 345-51		11
876	MRI reveals changes in intracellular calcium in ischaemic areas of rabbit brain. <b>2003</b> , 45, 773-9		2
875	Navigated diffusion-weighted imaging with interpolated phase-correction for high-resolution imaging of stroke. <b>2003</b> , 45, 767-72		
874	Cilostazol reduces brain lesion induced by focal cerebral ischemia in rats--an MRI study. <b>2003</b> , 994, 91-8		51
873	In vivo neuroprotective effects of ACEA 1021 confirmed by magnetic resonance imaging in ischemic stroke. <b>2003</b> , 474, 53-62		18
872	Oscillating gradient measurements of water diffusion in normal and globally ischemic rat brain. <i>Magnetic Resonance in Medicine</i> , <b>2003</b> , 49, 206-15	4.4	159
871	Comparison of the return-to-the-origin probability and the apparent diffusion coefficient of water as indicators of necrosis in RIF-1 tumors. <i>Magnetic Resonance in Medicine</i> , <b>2003</b> , 49, 468-78	4.4	15
870	Conventional DTI vs. slow and fast diffusion tensors in cat visual cortex. <i>Magnetic Resonance in Medicine</i> , <b>2003</b> , 49, 785-90	4.4	26

869	Water diffusion measurements in perfused human hippocampal slices undergoing tonicity changes. <i>Magnetic Resonance in Medicine</i> , <b>2003</b> , 49, 856-63	4.4	27
868	Detection of the anoxic depolarization of focal ischemia using manganese-enhanced MRI. <i>Magnetic Resonance in Medicine</i> , <b>2003</b> , 50, 7-12	4.4	44
867	An image-based finite difference model for simulating restricted diffusion. <i>Magnetic Resonance in Medicine</i> , <b>2003</b> , 50, 373-82	4.4	64
866	Diffusion in compartmental systems. I. A comparison of an analytical model with simulations. <i>Magnetic Resonance in Medicine</i> , <b>2003</b> , 50, 500-9	4.4	63
865	Magnetic resonance measurement of tetramethylammonium diffusion in rat brain: Comparison of magnetic resonance and ionophoresis in vivo diffusion measurements. <i>Magnetic Resonance in Medicine</i> , <b>2003</b> , 50, 717-26	4.4	21
864	High-resolution diffusion-weighted 3D MRI, using diffusion-weighted driven-equilibrium (DW-DE) and multishot segmented 3D-SSFP without navigator echoes. <i>Magnetic Resonance in Medicine</i> , <b>2003</b> , 50, 821-9	4.4	54
863	Generalized diffusion tensor imaging and analytical relationships between diffusion tensor imaging and high angular resolution diffusion imaging. <i>Magnetic Resonance in Medicine</i> , <b>2003</b> , 50, 955-65	4.4	318
862	MR imaging of postischemic neuronal death in the substantia nigra and thalamus following middle cerebral artery occlusion in rats. <b>2003</b> , 16, 152-9		20
861	Water diffusion in biomedical systems as related to magnetic resonance imaging. <b>2003</b> , 21, 17-31		18
860	Computational modeling of cerebral diffusion-application to stroke imaging. <b>2003</b> , 21, 651-61		21
859	Detection of acute thalamo-mesencephalic infarction: diffusion abnormality precedes T2 hyperintensity. <b>2003</b> , 108, 52-4		1
858	Diffusion-weighted imaging abnormalities in the splenium after seizures. <b>2003</b> , 44, 852-4		85
857	Diffusion-Weighted Magnetic Resonance Imaging Abnormalities in Bartonella Encephalopathy. <b>2003</b> , 13, 79-82		17
856	In vivo excitotoxicity induced by ouabain, a Na <sup>+</sup> /K <sup>+</sup> -ATPase inhibitor. <b>2003</b> , 23, 62-74		41
855	Effects of 2-deoxy-d-glucose on focal cerebral ischemia in hyperglycemic rats. <b>2003</b> , 23, 556-64		18
854	Temporal relation between the ADC and DC potential responses to transient focal ischemia in the rat: a Markov chain Monte Carlo simulation analysis. <b>2003</b> , 23, 677-88		4
853	Interferon-beta blocks infiltration of inflammatory cells and reduces infarct volume after ischemic stroke in the rat. <b>2003</b> , 23, 1029-39		101
852	Pixel-by-pixel spatiotemporal progression of focal ischemia derived using quantitative perfusion and diffusion imaging. <b>2003</b> , 23, 1479-88		116

851	Magnetic resonance imaging in experimental models of brain disorders. <b>2003</b> , 23, 1383-402	113
850	Diffusion magnetic resonance imaging study of a rat hippocampal slice model for acute brain injury. <b>2003</b> , 23, 1461-70	14
849	Looking into the functional architecture of the brain with diffusion MRI. <b>2003</b> , 4, 469-80	1152
848	CT and MR Imaging in Acute Stroke. <b>2003</b> , 7, 3-3	
847	Evidence-based neuroimaging in acute ischemic stroke. <b>2003</b> , 13, 167-83	7
846	Cardiovascular magnetic resonance of acute myocardial infarction at a very early stage. <b>2003</b> , 42, 513-8	73
845	Physiological and Metabolic Interpretation of Diffusion-Weighted Imaging Changes During Cerebral Ischemia. <b>2003</b> , 43, 115-127	0
844	Diffusion-Weighted MRI and Response to Anti-Cancer Therapies. <b>2003</b> , 43, 91-101	11
843	Reperfusion differentially induces caspase-3 activation in ischemic core and penumbra after stroke in immature brain. <b>2003</b> , 34, 207-13	143
842	Hypertension and neuronal degeneration in excised rat spinal cord studied by high-b value q-space diffusion magnetic resonance imaging. <b>2003</b> , 184, 726-36	31
841	In vivo monitoring of apoptosis. <b>2003</b> , 27, 323-31	51
840	Diffusion weighted magnetic resonance imaging in stroke. <b>2003</b> , 45, 185-94	85
839	MR imaging of ischemic penumbra. <b>2003</b> , 46, 67-78	19
838	T2: The Transverse Relaxation Time. 143-201	13
837	Abnormalities on diffusion weighted magnetic resonance imaging performed several weeks after a minor stroke or transient ischaemic attack. <b>2003</b> , 74, 734-8	42
836	Neuroimaging of animal models of brain disease. <b>2003</b> , 65, 235-57	33
835	Brain and skull. <b>2003</b> , 35-281	
834	Detection of diffusion-weighted MRI abnormalities in patients with transient ischemic attack: correlation with clinical characteristics. <b>2003</b> , 34, 932-7	139

833	Correlation of apparent diffusion coefficient and computed tomography density in acute ischemic stroke. <b>2003</b> , 34, e17-8; author reply e17-8	9
832	Serial magnetic resonance imaging in experimental primate stroke: validation of MRI for pre-clinical cerebroprotective trials. <b>2003</b> , 25, 846-52	29
831	Modern Neuroimaging in Stroke: Effects on Treatment Selection and Outcome Prediction. <b>2003</b> , 16, 134-140	
830	Imaging the Ischemic Penumbra. <b>2003</b> , 16, 833-838	3
829	Bridging the Gap between Brain Anatomy and Function with Diffusion MRI. <b>2003</b> , 16, 33-38	
828	Case report: diffusion-weighted MRI in anterior spinal artery stroke of the cervical spinal cord. <b>2003</b> , 27, 410-4	18
827	Diffusion imaging of the human spinal cord and the vertebral column. <b>2003</b> , 14, 461-76	47
826	Anesthesia during high-field intraoperative magnetic resonance imaging experience with 80 consecutive cases. <b>2003</b> , 15, 255-62	34
825	Localization of stroke syndromes using diffusion-weighted MR imaging (DWI). <b>2003</b> , 121-134	
824	The ischemic penumbra: the evolution of a concept. <b>2003</b> , 191-206	1
823	New MR techniques to select patients for thrombolysis in acute stroke. <b>2003</b> , 207-222	
822	Diffusion MRI studies in vascular cognitive impairment and dementia. <b>2003</b> , 25, 188-91	6
821	Correlation between brain reorganization, ischemic damage, and neurologic status after transient focal cerebral ischemia in rats: a functional magnetic resonance imaging study. <b>2003</b> , 23, 510-7	248
820	Physiological MRI techniques and pediatric stroke. <b>2004</b> , 736-754	
819	Fundamentals of diffusion MR imaging. <b>2004</b> , 54-85	2
818	Biomagnetic Imaging: Principles of Magnetic Resonance Imaging and Emerging Techniques in Progress. <b>2004</b> , 79-105	1
817	Estimating The Sodium Ion Diffusion Coefficient in Rat Brain. <b>2004</b> ,	
816	Study of Restricted Water Diffusion in Biological Tissue by Diffusion Magnetic Resonance Imaging. <b>2004</b> , 28, 458-462	

815	Diffusion-weighted MRI in 300 patients presenting late with subacute transient ischemic attack or minor stroke. <b>2004</b> , 35, 2459-65	73
814	MRI of animal models of brain disease. <b>2004</b> , 386, 149-77	10
813	Magnetic resonance imaging in animal models of pathologies. <b>2004</b> , 386, 177-200	9
812	Fiber orientation mapping using generalized diffusion tensor imaging.	4
811	The magnetic resonance revolution in brain imaging: impact on neonatal intensive care. <b>2004</b> , 89, F193-7	19
810	Delayed decompressive surgery increases apparent diffusion coefficient and improves peri-infarct perfusion in rats with space-occupying cerebral infarction. <b>2004</b> , 35, 1476-81	21
809	Changes in cerebral perfusion precede plaque formation in multiple sclerosis: a longitudinal perfusion MRI study. <b>2004</b> , 127, 111-9	157
808	Increase in apparent diffusion coefficient in normal appearing white matter following human traumatic brain injury correlates with injury severity. <b>2004</b> , 21, 645-54	59
807	Robust fiber tracking method by vector selection criterion in diffusion tensor images. <b>2004</b> , 2004, 1080-3	3
806	Silent embolism in diagnostic cerebral angiography: detection with diffusion-weighted imaging. <b>2004</b> , 48, 133-8	28
805	Effects of reperfusion on ADC and CBF pixel-by-pixel dynamics in stroke: characterizing tissue fates using quantitative diffusion and perfusion imaging. <b>2004</b> , 24, 280-90	63
804	Dynamic tracking of acute ischemic tissue fates using improved unsupervised ISODATA analysis of high-resolution quantitative perfusion and diffusion data. <b>2004</b> , 24, 887-97	55
803	Bumetanide inhibition of the blood-brain barrier Na-K-Cl cotransporter reduces edema formation in the rat middle cerebral artery occlusion model of stroke. <b>2004</b> , 24, 1046-56	190
802	Restricted diffusion in the brain of transgenic mice with cerebral amyloidosis. <b>2004</b> , 20, 811-7	47
801	Imaging perinatal brain injury in premature infants. <b>2004</b> , 28, 433-43	30
800	Magnetic resonance imaging in drug discovery: lessons from disease areas. <b>2004</b> , 9, 35-42	46
799	The time course of ischemic damage and cerebral perfusion in a rat model of space-occupying cerebral infarction. <b>2004</b> , 1013, 74-82	18
798	Reduction of brain injury by antithrombotic agent acutobin after middle cerebral artery ischemia/reperfusion in the hyperglycemic rat. <b>2004</b> , 1022, 234-43	6

797	The strengths of in vivo magnetic resonance imaging (MRI) to study environmental adaptational physiology in fish. <b>2004</b> , 17, 236-48		26
796	Diffusion characteristics of large molecules assessed by proton MRS on a whole-body MR system. <b>2004</b> , 22, 39-46		40
795	[Diffusion-weighted MRT in vertebrobasilar ischemia. Application, sensitivity, and prognostic value]. <b>2004</b> , 75, 341-6		19
794	MRT beim akuten Schlaganfall. <b>2004</b> , 14, 56-63		6
793	Diffusion-weighted MRI in cortical ischaemia. <b>2004</b> , 46, 175-82		31
792	Comparison of conventional and diffusion-weighted MRI and proton MR spectroscopy in patients with mitochondrial encephalomyopathy, lactic acidosis, and stroke-like events. <b>2004</b> , 46, 113-7		60
791	Applications of diffusion/perfusion magnetic resonance imaging in experimental and clinical aspects of stroke. <b>2004</b> , 6, 267-73		11
790	Characterizing the diffusion/perfusion mismatch in experimental focal cerebral ischemia. <b>2004</b> , 55, 207-12		127
789	Clinical applications of diffusion tensor imaging. <i>Journal of Magnetic Resonance Imaging</i> , <b>2004</b> , 19, 6-18	5.6	162
788	Water diffusion in a rat glioma during ganciclovir-thymidine kinase gene therapy-induced programmed cell death in vivo: correlation with cell density. <i>Journal of Magnetic Resonance Imaging</i> , <b>2004</b> , 19, 389-96	5.6	56
787	Morphological and hemodynamic magnetic resonance assessment of early neonatal brain injury in a piglet model. <i>Journal of Magnetic Resonance Imaging</i> , <b>2004</b> , 20, 8-15	5.6	14
786	A comparison of images generated from diffusion-weighted and diffusion-tensor imaging data in hyper-acute stroke. <i>Journal of Magnetic Resonance Imaging</i> , <b>2004</b> , 20, 193-200	5.6	29
785	The effect of gradient sampling schemes on measures derived from diffusion tensor MRI: a Monte Carlo study. <i>Magnetic Resonance in Medicine</i> , <b>2004</b> , 51, 807-15	4.4	624
784	Characterizing non-Gaussian diffusion by using generalized diffusion tensors. <i>Magnetic Resonance in Medicine</i> , <b>2004</b> , 51, 924-37	4.4	206
783	Neuroprotective effects of an immunosuppressant agent on diffusion/perfusion mismatch in transient focal ischemia. <i>Magnetic Resonance in Medicine</i> , <b>2004</b> , 51, 1173-80	4.4	10
782	Microsphere-induced embolic stroke: an MRI study. <i>Magnetic Resonance in Medicine</i> , <b>2004</b> , 51, 1232-8	4.4	37
781	Effects of physiologic challenge on the ADC of intracellular water in the <i>Xenopus</i> oocyte. <i>Magnetic Resonance in Medicine</i> , <b>2004</b> , 52, 239-47	4.4	16
780	"Squashing peanuts and smashing pumpkins": how noise distorts diffusion-weighted MR data. <i>Magnetic Resonance in Medicine</i> , <b>2004</b> , 52, 979-93	4.4	444

779	Self-navigated interleaved spiral (SNAILS): application to high-resolution diffusion tensor imaging. <i>Magnetic Resonance in Medicine</i> , <b>2004</b> , 52, 1388-96	4.4	188
778	Investigation of techniques to quantify in vivo lesion volume based on comparison of water apparent diffusion coefficient (ADC) maps with histology in focal cerebral ischemia of rats. <b>2004</b> , 22, 653-9		13
777	A comparison study of multishot vs. single-shot DWI-EPI in the neonatal brain: reduced effects of ghosting compared to adults. <b>2004</b> , 22, 1169-80		5
776	The effect of rotational angle and experimental parameters on the diffraction patterns and micro-structural information obtained from q-space diffusion NMR: implication for diffusion in white matter fibers. <i>Journal of Magnetic Resonance</i> , <b>2004</b> , 169, 30-8	3	68
775	Multiparametric ISODATA analysis of embolic stroke and rt-PA intervention in rat. <b>2004</b> , 223, 135-43		27
774	MRI evaluation of treatment of embolic stroke in rat with intra-arterial and intravenous rt-PA. <b>2004</b> , 224, 57-67		5
773	New developments in magnetic resonance imaging of the brain. <b>2004</b> , 1, 155-64		16
772	Middle cerebral artery occlusion during MR-imaging: investigation of the hyperacute phase of stroke using a new in-bore occlusion model in rats. <b>2004</b> , 12, 137-43		41
771	Magnetic resonance imaging and spectroscopy in assessing 3-nitropropionic acid-induced brain lesions: an animal model of Huntington's disease. <b>2004</b> , 72, 87-110		63
770	Nuclear magnetic resonance (NMR) measurement of the apparent diffusion coefficient (ADC) of tissue water and its relationship to cell volume changes in pathological states. <b>2004</b> , 45, 569-82		131
769	Tissue viability assessed by MRI. <b>2004</b> , 1270, 91-96		
768	Role of immediate postictal diffusion-weighted MRI in localizing epileptogenic foci of mesial temporal lobe epilepsy and non-lesional neocortical epilepsy. <b>2004</b> , 13, 509-16		27
767	Diffusion tensor imaging detects early Wallerian degeneration of the pyramidal tract after ischemic stroke. <i>NeuroImage</i> , <b>2004</b> , 22, 1767-74	7.9	339
766	Diffusion-Weighted MRI of the Spinal Cord. <b>2004</b> , 17, 314-321		2
765	Do indomethacin and propofol cause cerebral ischemic damage? Diffusion-weighted magnetic resonance imaging in patients undergoing craniotomy for brain tumors. <b>2004</b> , 101, 872-8		13
764	Differences in diffusion-weighted and T2-weighted magnetic resonance imaging findings in the acute and chronic stages of ischemic cerebrovascular disease--two case reports. <b>2004</b> , 44, 245-8		1
763	Subdural hyperintense band on diffusion-weighted imaging of chronic subdural hematoma indicates bleeding from the outer membrane. <b>2005</b> , 45, 125-31		20
762	Cerebral density on CT immediately after a successful resuscitation of cardiopulmonary arrest correlates with outcome. <b>2005</b> , 64, 97-101		51



761	DTI of trabecular bone marrow. <b>2005</b> , 23, 245-8		12
760	Diffusion-weighted three-dimensional MP-RAGE MR imaging. <b>2005</b> , 23, 463-8		15
759	A comparative evaluation of a RARE-based single-shot pulse sequence for diffusion-weighted MRI of musculoskeletal soft-tissue tumors. <b>2005</b> , 15, 772-83		29
758	Near-infrared frequency-domain optical spectroscopy and magnetic resonance imaging: a combined approach to studying cerebral maturation in neonatal rabbits. <b>2005</b> , 10, 11011		12
757	Diffusion tensor imaging in late posttraumatic epilepsy. <b>2005</b> , 46, 1465-71		51
756	Treatment of elevated intracranial pressure with indomethacin: friend or foe?. <b>2005</b> , 49, 341-50		46
755	Statistical prediction of tissue fate in acute ischemic brain injury. <b>2005</b> , 25, 1336-45		44
754	Functional, perfusion and diffusion MRI of acute focal ischemic brain injury. <b>2005</b> , 25, 1265-79		100
753	Measurements of intracellular volumes by <sup>59</sup> Co and <sup>2</sup> H/ <sup>1</sup> H NMR and their physiological applications. <b>2005</b> , 18, 104-10		4
752	Diffusion NMR spectroscopy in supramolecular and combinatorial chemistry: an old parameter--new insights. <b>2005</b> , 44, 520-54		960
751	Diffusions-NMR-Spektroskopie in der Supramolekularen und Kombinatorischen Chemie: ein alter Parameter ðeue Erkenntnisse. <b>2005</b> , 117, 524-560		229
750	Evolution of lesion volume in acute stroke treated by intravenous t-PA. <i>Journal of Magnetic Resonance Imaging</i> , <b>2005</b> , 22, 23-8	5.6	19
749	Ischemia-induced ADC changes are larger than osmotically-induced ADC changes in a neonatal rat hippocampus model. <i>Magnetic Resonance in Medicine</i> , <b>2005</b> , 53, 348-55	4.4	19
748	Gradual changes in the apparent diffusion coefficient of water in selectively vulnerable brain regions following brief ischemia in the gerbil. <i>Magnetic Resonance in Medicine</i> , <b>2005</b> , 53, 593-600	4.4	6
747	Sodium ion apparent diffusion coefficient in living rat brain. <i>Magnetic Resonance in Medicine</i> , <b>2005</b> , 53, 1040-5	4.4	38
746	Effect of experimental parameters on high b-value q-space MR images of excised rat spinal cord. <i>Magnetic Resonance in Medicine</i> , <b>2005</b> , 54, 96-104	4.4	23
745	How does DWI correlate with white matter structures?. <i>Magnetic Resonance in Medicine</i> , <b>2005</b> , 54, 317-23	4.4	20
744	Uncovering of intracellular water in cultured cells. <i>Magnetic Resonance in Medicine</i> , <b>2005</b> , 54, 79-86	4.4	16

743	Limitations of apparent diffusion coefficient-based models in characterizing non-gaussian diffusion. <i>Magnetic Resonance in Medicine</i> , <b>2005</b> , 54, 419-28	4.4	26
742	Simultaneous phase correction and SENSE reconstruction for navigated multi-shot DWI with non-cartesian k-space sampling. <i>Magnetic Resonance in Medicine</i> , <b>2005</b> , 54, 1412-22	4.4	78
741	T(2) + measurement during acute cerebral ischemia by Carr-Purcell MRI at 4T. <i>Magnetic Resonance in Medicine</i> , <b>2005</b> , 54, 1448-54	4.4	2
740	Diffusion NMR spectroscopy: folding and aggregation of domains in p53. <b>2005</b> , 6, 1550-65		53
739	The influence of a cellular size distribution on NMR diffusion measurements. <b>2005</b> , 34, 890-8		9
738	Bildgebung und Pathophysiologie des frühen ischämischen Demens beim akuten Schlaganfall. <b>2005</b> , 15, 163-173		0
737	Diffusion weighted imaging, apparent diffusion coefficient maps and stroke etiology. <b>2005</b> , 252, 1387-93		27
736	An early continuous experimental study on magnetic resonance diffusion-weighted image of focal cerebral ischemia and reperfusion in rats. <b>2005</b> , 25, 594-6		2
735	Dispersion of cerebral on-resonance T <sub>1</sub> in the rotating frame (T <sub>1ρ</sub> ) in global ischaemia. <b>2005</b> , 29, 89-106		7
734	Tumour gene therapy monitoring using magnetic resonance imaging and spectroscopy. <b>2005</b> , 5, 685-96		11
733	Validation of q-ball imaging with a diffusion fibre-crossing phantom on a clinical scanner. <b>2005</b> , 360, 881-91		105
732	Differences in infarct evolution between lipopolysaccharide-induced tolerant and nontolerant conditions to focal cerebral ischemia. <b>2005</b> , 103, 715-23		44
731	Acute and subacute ischemic stroke at high-field-strength (3.0-T) diffusion-weighted MR imaging: intraindividual comparative study. <b>2005</b> , 234, 509-16		82
730	Blood pressure in the artery distal to an intraarterial embolus during thrombolytic therapy for occlusion of a major artery: a predictor of cerebral infarction following good recanalization. <b>2005</b> , 102, 870-8		9
729	Sensitivity encoding for diffusion-weighted MR imaging at 3.0 T: intraindividual comparative study. <b>2005</b> , 234, 517-26		63
728	Chronic cholinergic imbalances promote brain diffusion and transport abnormalities. <b>2005</b> , 19, 910-22		33
727	Diffusion-weighted imaging in acute stroke. <b>2005</b> , 15, 503-30, ix-x		47
726	Diffusion-Weighted, Perfusion-Weighted, and Functional MR Imaging. <b>2005</b> , 1073-1114		1

725	Molecular imaging of apoptosis in cancer. <b>2005</b> , 56, 143-53	23
724	Cell-permeant calcium buffer induced neuroprotection after cortical devascularization. <b>2005</b> , 192, 357-64	8
723	Neuroprotective effects of HSP70 overexpression after cerebral ischaemia--an MRI study. <b>2005</b> , 195, 257-66	50
722	Diagnostic value of diffusion-weighted magnetic resonance imaging in pediatric cerebral diseases. <b>2005</b> , 32, 325-33	15
721	Diffusion tensor magnetic resonance imaging in multiple sclerosis. <b>2005</b> , 15, 68S-81S	59
720	A model for diffusion in white matter in the brain. <b>2005</b> , 89, 2927-38	212
719	Acute Ischemic Stroke. <b>2006</b> ,	18
718	Stroke imaging at 3.0 T. <b>2006</b> , 16, 343-66, xii	8
717	Neuroimaging in Acute Ischemic Stroke. <b>2006</b> , 160-179	
716	Cerebral ischemia-hypoxia induces intravascular coagulation and autophagy. <b>2006</b> , 169, 566-83	304
715	Diffusion-weighted imaging in acute stroke. <b>2006</b> , 14, 141-68	33
714	Time related changes in reversible MRI findings after prolonged hypoglycemia. <b>2006</b> , 108, 511-3	31
713	Diffusion-weighted magnetic resonance imaging versus computed tomography in the diagnosis of acute ischemic stroke. <b>2006</b> , 31, 269-77	46
712	Looking into the functional architecture of the brain with diffusion MRI. <b>2006</b> , 1290, 1-24	13
711	Physiological studies of cortical spreading depression. <b>2006</b> , 81, 457-81	89
710	Parameters for diffusion weighted magnetic resonance imaging for temporomandibular joint. <b>2006</b> , 47, 5-12	3
709	Sixteen-slice computed tomographic angiography is a reliable noninvasive screening test for clinically significant blunt cerebrovascular injuries. <b>2006</b> , 60, 745-51; discussion 751-2	124
708	Diffusion tensor magnetic resonance imaging. <b>2006</b> , 26, 51-60	23

707	Comparison of minimally invasive and conventional open posterolateral lumbar fusion using magnetic resonance imaging and retraction pressure studies. <b>2006</b> , 19, 77-86		132
706	Resuscitative hypothermia protects the neonatal rat brain from hypoxic-ischemic injury. <b>2000</b> , 10, 61-71		48
705	NMR spectroscopy in neurochemistry. <b>1993</b> , 61, 412-29		67
704	Assessing the outcome of stroke: a comparison between MRI and clinical stroke scales. <b>2006</b> , 113, 100-7		20
703	Present status of magnetic resonance imaging and spectroscopy in animal stroke models. <b>2006</b> , 26, 591-604		63
702	Estradiol reduces activity of the blood-brain barrier Na-K-Cl cotransporter and decreases edema formation in permanent middle cerebral artery occlusion. <b>2006</b> , 26, 1234-49		88
701	The relationship between diffusion anisotropy and time of onset after stroke. <b>2006</b> , 26, 1442-50		28
700	A supervised method for calculating perfusion/diffusion mismatch volume in acute ischemic stroke. <b>2006</b> , 36, 1268-87		6
699	In vivo isotropic 3D diffusion tensor mapping of the rat brain using diffusion-weighted 3D MP-RAGE MRI. <b>2006</b> , 24, 287-93		16
698	Investigation of multicomponent diffusion in cat brain using a combined MTC-DWI approach. <b>2006</b> , 24, 425-31		9
697	Observation of anomalous diffusion in excised tissue by characterizing the diffusion-time dependence of the MR signal. <i>Journal of Magnetic Resonance</i> , <b>2006</b> , 183, 315-23	3	85
696	The role of porous media in biomedical engineering as related to magnetic resonance imaging and drug delivery. <b>2006</b> , 42, 939-953		96
695	Multimodal MR examination in acute ischemic stroke. <b>2006</b> , 48, 238-46		19
694	Evolution of apparent diffusion coefficient and transverse relaxation time (T2) in the subchronic stage of global cerebral oligemia in different rat models. <b>2006</b> , 169, 361-8		6
693	Mapping the intracellular fraction of water by varying the gradient pulse length in q-space diffusion MRI. <i>Journal of Magnetic Resonance</i> , <b>2006</b> , 180, 280-5	3	24
692	Evaluation of diffusional anisotropy and microscopic structure in skeletal muscles using magnetic resonance. <b>2006</b> , 24, 19-25		53
691	High b-value q-space diffusion MRI in myelin-deficient rat spinal cords. <b>2006</b> , 24, 161-6		41
690	Mapping the parameter space of a T2-dependent model of water diffusion MR in brain tissue. <b>2006</b> , 24, 1031-8		6

689	Characterization of cerebral tissue by MRI map ISODATA in embolic stroke in rat. <b>2006</b> , 1084, 202-9		6
688	Silent cerebral ischaemia: hidden fingerprints of invasive medical procedures. <b>2006</b> , 5, 364-72		162
687	Three-dimensional myoarchitecture of the bovine tongue demonstrated by diffusion spectrum magnetic resonance imaging with tractography. <b>2006</b> , 288, 1173-82		37
686	Age effects on diffusion tensor magnetic resonance imaging tractography measures of frontal cortex connections in schizophrenia. <b>2006</b> , 27, 230-8		201
685	Diffusion tensor spectroscopy (DTS) of human brain. <i>Magnetic Resonance in Medicine</i> , <b>2006</b> , 55, 1-8	4.4	157
684	High-resolution DTI of a localized volume using 3D single-shot diffusion-weighted STimulated echo-planar imaging (3D ss-DWSTEPI). <i>Magnetic Resonance in Medicine</i> , <b>2006</b> , 56, 1173-81	4.4	39
683	Methods and applications of diffusion imaging of vertebral bone marrow. <i>Journal of Magnetic Resonance Imaging</i> , <b>2006</b> , 24, 1207-20	5.6	58
682	Characterization of anomalous diffusion from mr signal may be a new probe to tissue microstructure. <b>2006</b> , 2006, 2256-9		8
681	Modest MRI signal intensity changes precede delayed cortical necrosis after transient focal ischemia in the rat. <b>2006</b> , 37, 1525-32		29
680	Cilostazol: therapeutic potential against focal cerebral ischemic damage. <b>2006</b> , 12, 565-73		40
679	Predominance of cellular edema in traumatic brain swelling in patients with severe head injuries. <b>2006</b> , 104, 720-30		168
678	Acute Stroke. <b>2006</b> ,		
677	Magnetic Resonance Imaging in Ischemic Stroke. <b>2006</b> ,		3
676	Furosemide increases water content in renal tissue. <b>2007</b> , 292, F1645-51		18
675	Computing the Probability of Local Brain Connectivity using Diffusion Tensor Imaging. <b>2007</b> ,		
674	Heterogeneous regional and temporal energetic impairment following controlled cortical impact injury in rats. <b>2007</b> , 29, 594-603		18
673	Fat-saturated diffusion-weighted imaging of the rat pelvis using three-dimensional MP-RAGE MR sequence. <b>2007</b> , 2007, 2038-41		
672	Spatial and temporal damage evolution after hemi-crush injury in rat spinal cord obtained by high b-value q-space diffusion magnetic resonance imaging. <b>2007</b> , 24, 481-91		10

671	Diffusion tensor analysis with invariant gradients and rotation tangents. <b>2007</b> , 26, 1483-99		59
670	The 'wet mind': water and functional neuroimaging. <b>2007</b> , 52, R57-90		251
669	3-Tesla versus 1.5-Tesla magnetic resonance diffusion and perfusion imaging in hyperacute ischemic stroke. <b>2007</b> , 24, 361-8		24
668	The management of blood pressure after stroke. <b>2007</b> , 13, 171-81		10
667	Surgery of intrinsic cerebral tumors. <b>2007</b> , 61, 279-304; discussion 304-5		52
666	Modeling dendrite density from magnetic resonance diffusion measurements. <i>NeuroImage</i> , <b>2007</b> , 34, 1473-86	7.9	255
665	A novel tensor distribution model for the diffusion-weighted MR signal. <i>NeuroImage</i> , <b>2007</b> , 37, 164-76	7.9	166
664	Neuroprotective effects of the Ras inhibitor S-trans-trans-farnesylthiosalicylic acid, measured by diffusion-weighted imaging after traumatic brain injury in rats. <b>2007</b> , 24, 1378-86		9
663	MR imaging of the spinal bone marrow. <b>2007</b> , 15, 175-98, vi		22
662	New perspectives on the sources of white matter DTI signal. <b>2007</b> , 26, 1448-55		43
661	High b-value diffusion imaging of dementia: application to vascular dementia and alzheimer disease. <b>2007</b> , 257, 105-13		27
660	Development of NMR: From the Early Beginnings to the Early 1990s. <b>2007</b> ,		3
659	Animal Methods in MRS. <b>2007</b> ,		
658	Cerebral Perfusion Imaging by Exogenous Contrast Agents. <b>2007</b> ,		
657	Diffusion: Clinical Utility of MRI Studies. <b>2007</b> ,		
656	Proton transfer ratio, lactate, and intracellular pH in acute cerebral ischemia. <i>Magnetic Resonance in Medicine</i> , <b>2007</b> , 57, 647-53	4.4	111
655	q-Space diffusion of myelin-deficient spinal cords. <i>Magnetic Resonance in Medicine</i> , <b>2007</b> , 58, 993-1000	4.4	30
654	Transient signal changes in diffusion-weighted stimulated echoes during neuronal stimulation at 3T. <i>Journal of Magnetic Resonance Imaging</i> , <b>2007</b> , 25, 947-56	5.6	6

653	Neuro MR: principles. <i>Journal of Magnetic Resonance Imaging</i> , <b>2007</b> , 26, 823-37	5.6	49
652	Microstructural changes in ischemic cortical gray matter predicted by a model of diffusion-weighted MRI. <i>Journal of Magnetic Resonance Imaging</i> , <b>2007</b> , 26, 529-40	5.6	29
651	Detection of the ischemic penumbra using pH-weighted MRI. <b>2007</b> , 27, 1129-36		253
650	Increased white matter connectivity in euthymic bipolar patients: diffusion tensor tractography between the subgenual cingulate and the amygdalo-hippocampal complex. <b>2007</b> , 12, 1001-10		141
649	Magnetic resonance imaging in animal models of epilepsy-noninvasive detection of structural alterations. <b>2007</b> , 48 Suppl 4, 3-10		304
648	Physiological studies of cortical spreading depression. <b>2007</b> , 81, 457-481		1
647	Extracranial applications of diffusion-weighted magnetic resonance imaging. <b>2007</b> , 17, 1385-93		223
646	Principles and implementation of diffusion-weighted and diffusion tensor imaging. <b>2007</b> , 37, 739-48		26
645	Effects of restricted diffusion in a biological phantom: a q-space diffusion MRI study of asparagus stems at a 3T clinical scanner. <b>2007</b> , 20, 213-22		28
644	Evolution of the diffusion-weighted signal and the apparent diffusion coefficient in the late phase after minor stroke: a follow-up study. <b>2007</b> , 254, 375-83		17
643	Magnetic resonance imaging of the neonatal brain. <b>2007</b> , 74, 173-84		14
642	Anisotropic diffusion of metabolites in peripheral nerve using diffusion weighted magnetic resonance spectroscopy at ultra-high field. <i>Journal of Magnetic Resonance</i> , <b>2007</b> , 184, 20-8	3	18
641	Crossing fibers, diffractions and nonhomogeneous magnetic field: correction of artifacts by bipolar gradient pulses. <b>2008</b> , 26, 801-8		10
640	Gas diffusion in a pulmonary acinus model: experiments with hyperpolarized helium-3. <b>2008</b> , 26, 1101-13		4
639	LPS-induced endotoxic shock does not cause early brain edema formation - an MRI study in rats. <b>2008</b> , 57, 479-83		16
638	Quantitative Assessment of Injury in Rat Spinal Cords In Vivo by MRI of Water Diffusion Tensor. <b>2008</b> , 34, 3-20		7
637	Diffusion imaging concepts for clinicians. <i>Journal of Magnetic Resonance Imaging</i> , <b>2008</b> , 27, 1-7	5.6	179
636	MR thermometry. <i>Journal of Magnetic Resonance Imaging</i> , <b>2008</b> , 27, 376-90	5.6	815

635	Magnetic resonance methods and applications in pharmaceutical research. <b>2008</b> , 97, 3637-65		15
634	Single-step nonlinear diffusion tensor estimation in the presence of microscopic and macroscopic motion. <i>Magnetic Resonance in Medicine</i> , <b>2008</b> , 59, 1138-50	4.4	39
633	Monitoring prostate thermal therapy with diffusion-weighted MRI. <i>Magnetic Resonance in Medicine</i> , <b>2008</b> , 59, 1365-72	4.4	51
632	Ischemia-induced changes of intracellular water diffusion in rat glioma cell cultures. <i>Magnetic Resonance in Medicine</i> , <b>2008</b> , 60, 258-64	4.4	10
631	Efficient fat suppression by slice-selection gradient reversal in twice-refocused diffusion encoding. <i>Magnetic Resonance in Medicine</i> , <b>2008</b> , 60, 1256-60	4.4	56
630	New diffusion phantoms dedicated to the study and validation of high-angular-resolution diffusion imaging (HARDI) models. <i>Magnetic Resonance in Medicine</i> , <b>2008</b> , 60, 1276-83	4.4	147
629	High b-value q-space diffusion MRS of nerves: structural information and comparison with histological evidence. <b>2008</b> , 21, 165-74		47
628	Quantitative prediction of ischemic stroke tissue fate. <b>2008</b> , 21, 839-48		23
627	Can we use diffusion MRI as a bio-marker of neurodegenerative processes?. <b>2008</b> , 30, 1235-45		31
626	In vivo visualization of displacement-distribution-derived parameters in q-space imaging. <b>2008</b> , 26, 77-87		38
625	Simultaneous magnetic resonance imaging of diffusion anisotropy and diffusion gradient. <b>2008</b> , 26, 337-46		1
624	The effect of the rotational angle on MR diffusion indices in nerves: is the rms displacement of the slow-diffusing component a good measure of fiber orientation?. <i>Journal of Magnetic Resonance</i> , <b>2008</b> , 190, 33-42	3	7
623	Comparison of T2 and LASER T2 dagger image contrast in a rat model of acute cerebral ischemia. <b>2008</b> , 26, 323-9		1
622	Elevations of diffusion anisotropy are associated with hyper-acute stroke: a serial imaging study. <b>2008</b> , 26, 683-93		37
621	Abstracts of the 6th World Stroke Congress and Xth International Symposium on Thrombolysis and Acute Stroke Therapy. September 24-27, 2008 Vienna, Austria and September 21-23, 2008, Budapest, Hungary. <b>2008</b> , 3 Suppl 1, 2-474		2
620	Very brief focal ischemia simulating transient ischemic attacks (TIAs) can injure brain and induce Hsp70 protein. <b>2008</b> , 1234, 183-97		55
619	Contribution of the apparent diffusion coefficient in perilesional edema for the assessment of brain tumors. <b>2008</b> , 35, 224-9		23
618	Basics of Magnetic Resonance Imaging and Magnetic Resonance Spectroscopy. <b>2008</b> , 3-167		11



617	Cerebral ischemia: models, methods and outcomes. <b>2008</b> , 55, 257-70		133
616	Diffusion weighted MR imaging in non-infarct lesions of the brain. <b>2008</b> , 65, 402-16		49
615	Studying connections in the living human brain with diffusion MRI. <b>2008</b> , 44, 936-52		373
614	MRI in the management of cerebrovascular disease to prevent stroke. <b>2008</b> , 26, 897-921, vii-viii		7
613	New brain lesions after carotid stenting versus carotid endarterectomy: a systematic review of the literature. <b>2008</b> , 39, 1911-9		227
612	Angiogenesis detected after embolic stroke in rat brain using magnetic resonance T2*WI. <b>2008</b> , 39, 1563-8		68
611	Brain MRI and neurological deficit measurements in focal stroke: rapid throughput validated with isradipine. <b>2008</b> , 81, 1-10		11
610	Diffusion in brain extracellular space. <b>2008</b> , 88, 1277-340		891
609	A piglet model for detection of hypoxic-ischemic brain injury with magnetic resonance imaging. <b>2008</b> , 49, 1049-57		28
608	Diffusion tensor MR imaging and fiber tractography: theoretic underpinnings. <i>American Journal of Neuroradiology</i> , <b>2008</b> , 29, 632-41	4.4	339
607	Apparent diffusion coefficient reveals gray and white matter disease, and T2 mapping detects white matter disease in the brain in feline alpha-mannosidosis. <i>American Journal of Neuroradiology</i> , <b>2008</b> , 29, 308-13	4.4	19
606	New insights into tumor microstructure using temporal diffusion spectroscopy. <b>2008</b> , 68, 5941-7		51
605	Role of diffusion-weighted MRI in the detection of early active sacroiliitis. <b>2008</b> , 191, 980-6		100
604	A new technique allowing prolonged temporary cerebral artery occlusion. <b>2008</b> , 109, 1127-33		1
603	Minimization of Computational Errors in 1D Diffusion Simulation of Nuclear Magnetization. <b>2008</b> , 44, 4496-4499		1
602	Hypothermia reduces cytotoxic edema and metabolic alterations during the acute phase of massive SAH: a diffusion-weighted imaging and spectroscopy study in rats. <b>2008</b> , 25, 841-52		56
601	Diffusion tensor imaging investigations in Alzheimer's disease: the resurgence of white matter compromise in the cortical dysfunction of the aging brain. <b>2008</b> , 4, 737-42		39
600	Renal Lesions. <b>2008</b> , 475-483		

599	Diffusion tensor imaging in developmental clinical neuroscience. 314-325		
598	Diffusion and the MR signal. 173-202		
597	Fundamentals of diffusion MR imaging. 44-67		
596	Physiological MR imaging techniques and pediatric stroke. 784-805		
595	Magnetic resonance diffusion tensor imaging in stroke. 236-247		
594	Therapeutic administration of plasminogen activator inhibitor-1 prevents hypoxic-ischemic brain injury in newborns. <b>2009</b> , 29, 8669-74		41
593	Microstructural changes in uterine leiomyomas and myometrium: a diffusion-weighted magnetic resonance imaging study. <b>2009</b> , 67, 217-22		3
592	The concept of ischemic penumbra in acute stroke and therapeutic opportunities. <b>2009</b> , 61, 321-30		96
591	Diffusion-weighted imaging showing 'pearls' predicts large-vessel disease as stroke etiology. <b>2009</b> , 28, 49-54		5
590	Assessment of chronic pancreatitis: utility of diffusion-weighted MR imaging with secretin enhancement. <b>2009</b> , 250, 103-9		93
589	Magnetic resonance imaging of vascular diseases of the white matter. <b>2009</b> , 20, 343-8		3
588	Sodium imaging intensity increases with time after human ischemic stroke. <b>2009</b> , 66, 55-62		63
587	Free-breathing diffusion-weighted imaging for the assessment of inflammatory activity in Crohn's disease. <i>Journal of Magnetic Resonance Imaging</i> , <b>2009</b> , 29, 880-6	5.6	158
586	Inter- and intraobserver reliability of five MRI sequences in the evaluation of the final volume of cerebral infarct. <i>Journal of Magnetic Resonance Imaging</i> , <b>2009</b> , 29, 1280-4	5.6	10
585	High b-value apparent diffusion-weighted images from CURVE-ball DTI. <i>Journal of Magnetic Resonance Imaging</i> , <b>2009</b> , 30, 243-8	5.6	12
584	Investigation of relationships between transverse relaxation rate, diffusion coefficient, and labeled cell concentration in ischemic rat brain using MRI. <i>Magnetic Resonance in Medicine</i> , <b>2009</b> , 61, 587-94	4.4	6
583	Sensitivity of MR diffusion measurements to variations in intracellular structure: effects of nuclear size. <i>Magnetic Resonance in Medicine</i> , <b>2009</b> , 61, 828-33	4.4	78
582	Measurement of apparent cell radii using a multiple wave vector diffusion experiment. <i>Magnetic Resonance in Medicine</i> , <b>2009</b> , 61, 1001-6	4.4	47

581	The tensor distribution function. <i>Magnetic Resonance in Medicine</i> , <b>2009</b> , 61, 205-14	4.4	71
580	Assessment of the effects of cellular tissue properties on ADC measurements by numerical simulation of water diffusion. <i>Magnetic Resonance in Medicine</i> , <b>2009</b> , 62, 1414-22	4.4	48
579	Diffusion-weighted MRI measurements on stroke patients reveal water-exchange mechanisms in sub-acute ischaemic lesions. <b>2009</b> , 22, 619-28		33
578	Diffusion-weighted imaging of adnexal torsion. <b>2009</b> , 16, 399-401		23
577	Bulk motion-independent analyses of water diffusion changes in the brain during the cardiac cycle. <b>2009</b> , 2, 133-7		12
576	Imaging in acute stroke--a personal view. <b>2009</b> , 19, 20-30		5
575	Quantitative assessment of water pools by T 1 rho and T 2 rho MRI in acute cerebral ischemia of the rat. <b>2009</b> , 29, 206-16		37
574	Characterizing the origin of the arterial spin labelling signal in MRI using a multiecho acquisition approach. <b>2009</b> , 29, 1836-45		27
573	Correlation of diffusion-weighted magnetic resonance data with cellularity in prostate cancer. <b>2009</b> , 103, 883-8		198
572	Spectrum separation of Magnetic Resonance Spectroscopy based on sparse representation. <b>2009</b> ,		
571	Current trends and challenges in MRI acquisitions to investigate brain function. <b>2009</b> , 73, 33-42		19
570	Tensors in Image Processing and Computer Vision. <b>2009</b> ,		25
569	Introduction to Diffusion MR. <b>2009</b> , 2-10		2
568	Gaussian Modeling of the Diffusion Signal. <b>2009</b> , 37-54		6
567	Inferring Microstructural Information of White Matter from Diffusion MRI. <b>2009</b> , 127-146		6
566	New methods in diffusion-weighted and diffusion tensor imaging. <b>2009</b> , 17, 175-204		51
565	Intravenous polyethylene glycol successfully treats severe acceleration-induced brain injury in rats as assessed by magnetic resonance imaging. <b>2009</b> , 64, 984-90; discussion 990		7
564	Correlating DWI MRI with pathologic and other features of Jakob-Creutzfeldt disease. <b>2009</b> , 23, 82-87		32

563	Diffusion weighted imaging: a comprehensive evaluation of a fast spin echo DWI sequence with BLADE (PROPELLER) k-space sampling at 3 T, using a 32-channel head coil in acute brain ischemia. <b>2009</b> , 44, 656-61	24
562	Anatomy and Pathophysiology of Stroke. <b>2009</b> , 1-8	1
561	[Influence exerted by MPG-directions on diffusion tensor imaging (DTI)]. <b>2009</b> , 65, 913-20	
560	Differentiation of pancreas carcinoma from healthy pancreatic tissue using multiple b-values: comparison of apparent diffusion coefficient and intravoxel incoherent motion derived parameters. <b>2009</b> , 44, 769-75	196
559	How does water diffusion in human white matter change following ischemic stroke?. <b>2009</b> , 8, 121-34	11
558	Estimation of the onset time of cerebral ischemia using T1rho and T2 MRI in rats. <b>2010</b> , 41, 2335-40	47
557	Rodent models and magnetic resonance imaging: diagnostic and therapeutic utilities for stroke. <b>2010</b> , 9, 275	
556	Diffusion tensor imaging of peripheral nerves. <b>2010</b> , 39, 1073-9	57
555	Axonal damage in acute cerebral infarction showing ADC reduction. <b>2010</b> , 257, 1559-61	2
554	Generalized q-sampling imaging. <b>2010</b> , 29, 1626-35	493
553	Longitudinal MRI and MRSI characterization of the quinolinic acid rat model for excitotoxicity: peculiar apparent diffusion coefficients and recovery of N-acetyl aspartate levels. <b>2010</b> , 23, 196-206	8
552	Diffusion tensor imaging of renal ischemia reperfusion injury in an experimental model. <b>2010</b> , 23, 496-502	49
551	Effects of motion and b-matrix correction for high resolution DTI with short-axis PROPELLER-EPI. <b>2010</b> , 23, 794-802	17
550	Theoretical models of the diffusion weighted MR signal. <b>2010</b> , 23, 661-81	120
549	The use of MR-detectable reporter molecules and ions to evaluate diffusion in normal and ischemic brain. <b>2010</b> , 23, 725-33	51
548	From single-pulsed field gradient to double-pulsed field gradient MR: gleaning new microstructural information and developing new forms of contrast in MRI. <b>2010</b> , 23, 757-80	84
547	Progress in diffusion-weighted imaging: concepts, techniques and applications to the central nervous system. <b>2010</b> , 23, 659-60	7
546	Late stimulation of the sphenopalatine-ganglion in ischemic rats: improvement in N-acetyl-aspartate levels and diffusion weighted imaging characteristics as seen by MR. <i>Journal of Magnetic Resonance Imaging</i> , <b>2010</b> , 31, 1355-63	5.6 23

545	Studies of anomalous diffusion in the human brain using fractional order calculus. <i>Magnetic Resonance in Medicine</i> , <b>2010</b> , 63, 562-9	4.4	115
544	Effects of cardiac pulsation in diffusion tensor imaging of the rat brain. <b>2010</b> , 194, 116-21		6
543	Neuroimaging in acute ischaemic stroke: insights into unanswered questions of pathophysiology. <b>2010</b> , 267, 172-90		37
542	Hypertension-induced vascular remodeling contributes to reduced cerebral perfusion and the development of spontaneous stroke in aged SHRSP rats. <b>2010</b> , 30, 827-36		42
541	Moonen, Chrit T.W.: From Proteins to Functional Imaging to Image-Guided Therapy. <b>2010</b> ,		
540	Imaging the preterm brain. 39-53		
539	DW-MRI of the urogenital tract: applications in oncology. <b>2010</b> , 10 Spec no A, S112-23		25
538	Multiple sclerosis with initial stroke-like clinicoradiologic features: case report and literature review. <b>2010</b> , 25, 732-7		11
537	Cerebral metabolic alterations in rats with diabetic ketoacidosis: effects of treatment with insulin and intravenous fluids and effects of bumetanide. <b>2010</b> , 59, 702-9		35
536	Evidence-based guideline: The role of diffusion and perfusion MRI for the diagnosis of acute ischemic stroke: report of the Therapeutics and Technology Assessment Subcommittee of the American Academy of Neurology. <b>2010</b> , 75, 177-85		231
535	Three-dimensional diffusion weighted imaging of the acute cerebral ischemia rat using 3D MP-RAGE MRI. <b>2010</b> ,		
534	. <b>2010</b> ,		1
533	Comparative study on carotid revascularization (endarterectomy vs stenting) using markers of cellular brain injury, neuropsychometric tests, and diffusion-weighted magnetic resonance imaging. <b>2010</b> , 51, 584-91, 591.e1-3; discussion 592		53
532	Patching cardiac and head motion artefacts in diffusion-weighted images. <i>NeuroImage</i> , <b>2010</b> , 53, 565-75	7.9	85
531	Track-density imaging (TDI): super-resolution white matter imaging using whole-brain track-density mapping. <i>NeuroImage</i> , <b>2010</b> , 53, 1233-43	7.9	271
530	Hydrocephalus induces dynamic spatiotemporal regulation of aquaporin-4 expression in the rat brain. <b>2010</b> , 7, 20		33
529	Diffusion MR in Biological Systems: Tissue Compartments and Exchange. <b>2010</b> , 43, 33-44		39
528	Generalized Diffusion Tensor Imaging (GDTI): A Method for Characterizing and Imaging Diffusion Anisotropy Caused by Non-Gaussian Diffusion. <b>2010</b> , 43, 145-154		15

527	Diffusion-weighted MR imaging of the liver. <b>2010</b> , 254, 47-66		621
526	An introduction to functional and molecular imaging with MRI. <b>2010</b> , 65, 557-66		40
525	Neurite density from magnetic resonance diffusion measurements at ultrahigh field: comparison with light microscopy and electron microscopy. <i>NeuroImage</i> , <b>2010</b> , 49, 205-16	7.9	209
524	Ion and Water Transport across the BloodBrain Barrier. <b>2010</b> , 585-606		1
523	Greatly improved neuroprotective efficiency of citicoline by stereotactic delivery in treatment of ischemic injury. <b>2011</b> , 18, 461-7		19
522	Acute Ischemic Stroke. <b>2011</b> ,		19
521	Active trans-plasma membrane water cycling in yeast is revealed by NMR. <b>2011</b> , 101, 2833-42		41
520	Imaging stroke patients with unclear onset times. <b>2011</b> , 21, 327-44, xi		19
519	T2*-based fiber orientation mapping. <i>NeuroImage</i> , <b>2011</b> , 57, 225-234	7.9	96
518	Multi-parametric neuroimaging reproducibility: a 3-T resource study. <i>NeuroImage</i> , <b>2011</b> , 54, 2854-66	7.9	228
517	Magnetic Resonance Imaging of Cerebrovascular Diseases. <b>2011</b> , 882-909		1
516	Animal Models of Behavioral Analysis. <b>2011</b> ,		3
515	Magnetic Resonance Neuroimaging. <b>2011</b> ,		7
514	Structural and Functional Neuroimaging Methods: Applications to Substance Abuse and Addiction. <b>2011</b> , 37-82		1
513	Advanced MRI in multiple sclerosis: current status and future challenges. <b>2011</b> , 29, 357-80		25
512	ADC mapping of chronic cerebral hypoperfusion induced by carotid artery stenosis. <b>2011</b> , 38, 232-7		7
511	The utility of high b-value DWI in evaluation of ischemic stroke at 3T. <b>2011</b> , 78, 75-81		36
510	Basis for the Application of Analytical Models of the Bloch NMR Flow Equations for Functional Magnetic Resonance Imaging (fMRI): A Review. <b>2011</b> , 1, 33-67		2

509	Molecular imaging metrics to evaluate response to preclinical therapeutic regimens. <b>2011</b> , 16, 393-410	2
508	Diffusion-weighted MRI and quantitative biophysical modeling of hippocampal neurite loss in chronic stress. <b>2011</b> , 6, e20653	34
507	Van Zijl, Peter C.M: My Life in NMR and MRI, An Ongoing Story of Serendipity. <b>2011</b> ,	
506	[Appropriate cardiac phase for measurement of ADC of the brain using ECG-triggered diffusion MRI]. <b>2011</b> , 67, 661-5	1
505	Correlating magnetic resonance findings with neuropathology and clinical signs in dogs and cats. <b>2011</b> , 52, S23-31	27
504	Separation of perfusion signals from diffusion-weighted image series enabled by independent component analysis. <b>2011</b> , 21, 384-94	2
503	A framework for voxel-based morphometric analysis of the optic radiation using diffusion tensor imaging in glaucoma. <b>2011</b> , 29, 1076-87	21
502	Neurological complications of acute ischaemic stroke. <b>2011</b> , 10, 357-71	145
501	Functional and molecular imaging with MRI: potential applications in paediatric radiology. <b>2011</b> , 41, 185-98	4
500	A priori knowledge based frequency-domain quantification of prostate Magnetic Resonance Spectroscopy. <b>2011</b> , 6, 13-20	2
499	Repeated magnetic resonance imaging and cerebral performance after cardiac arrest--a pilot study. <b>2011</b> , 82, 549-55	17
498	Advances in MRI-Based Detection of Cerebrovascular Changes after Experimental Traumatic Brain Injury. <b>2011</b> , 2, 524-32	9
497	Brain imaging in stroke: insight beyond diagnosis. <i>Neurotherapeutics</i> , <b>2011</b> , 8, 330-9	6.4 10
496	Simple diffusion delivery via brain interstitial route for the treatment of cerebral ischemia. <b>2011</b> , 54, 235-9	17
495	Effects of intracellular organelles on the apparent diffusion coefficient of water molecules in cultured human embryonic kidney cells. <i>Magnetic Resonance in Medicine</i> , <b>2011</b> , 65, 796-801	4.4 24
494	Removal of olefinic fat chemical shift artifact in diffusion MRI. <i>Magnetic Resonance in Medicine</i> , <b>2011</b> , 65, 692-701	4.4 50
493	Microscopic and compartment shape anisotropies in gray and white matter revealed by angular bipolar double-PFG MR. <i>Magnetic Resonance in Medicine</i> , <b>2011</b> , 65, 1216-27	4.4 61
492	Changes in intracellular water diffusion and energetic metabolism in response to ischemia in perfused C6 rat glioma cells. <i>Magnetic Resonance in Medicine</i> , <b>2011</b> , 66, 859-67	4.4 11

491	Diffusion tensor imaging and beyond. <i>Magnetic Resonance in Medicine</i> , <b>2011</b> , 65, 1532-56	4.4	618
490	Using magnetic resonance imaging and spectroscopy in cancer diagnostics and monitoring: preclinical and clinical approaches. <b>2011</b> , 12, 665-79		30
489	Clinical Applications of Diffusion. <b>2011</b> , 13-52		1
488	MR Thermometry. <b>2011</b> , 271-288		10
487	COMPARISON OF THE COMPLETE FOURIER DIRECT MRI WITH EXISTING DIFFUSION WEIGHTED MRI METHODS. <b>2011</b> , 2011, 931-934		3
486	Correlation between CT and diffusion-weighted imaging of acute cerebral ischemia in a rat model. <i>American Journal of Neuroradiology</i> , <b>2011</b> , 32, 728-33	4.4	3
485	Stroke assessment with diffusional kurtosis imaging. <b>2012</b> , 43, 2968-73		163
484	WITHDRAWN: First observation of diffusion-diffraction pattern in neuronal tissue by double-pulsed-field-gradient NMR. <i>Journal of Magnetic Resonance</i> , <b>2012</b> ,	3	
483	Long-term changes of diffusion tensor imaging and behavioural status after acupuncture treatment in rats with transient focal cerebral ischaemia. <b>2012</b> , 30, 331-8		11
482	Optical coherence microscopy for deep tissue imaging of the cerebral cortex with intrinsic contrast. <b>2012</b> , 20, 2220-39		120
481	Elevated mean diffusivity in the left hemisphere superior longitudinal fasciculus in autism spectrum disorders increases with more profound language impairment. <i>American Journal of Neuroradiology</i> , <b>2012</b> , 33, 1720-5	4.4	61
480	Silent stroke and cognitive decline in asymptomatic carotid stenosis revascularization. <b>2012</b> , 20, 181-7		28
479	Diffusion-weighted MRI of the testis in hydrocele: a pilot study. <b>2012</b> , 89, 191-5		12
478	The diffusion tensor imaging toolbox. <b>2012</b> , 32, 7418-28		23
477	A historical overview of magnetic resonance imaging, focusing on technological innovations. <b>2012</b> , 47, 725-41		43
476	Diffusion tensor imaging and neuromodulation: DTI as key technology for deep brain stimulation. <b>2012</b> , 107, 207-34		48
475	Efficacy of diffusion tensor anisotropy indices and tractography in assessing the extent of severity of spinal cord injury: an in vitro analytical study in calf spinal cords. <b>2012</b> , 12, 1147-53		10
474	A finite difference method with periodic boundary conditions for simulations of diffusion-weighted magnetic resonance experiments in tissue. <b>2012</b> , 57, N35-46		17



473	Stratification of heterogeneous diffusion MRI ischemic lesion with kurtosis imaging: evaluation of mean diffusion and kurtosis MRI mismatch in an animal model of transient focal ischemia. <b>2012</b> , 43, 2252-4		81
472	Diffusion time dependence of magnetic resonance diffusion signal decays: an investigation of water exchange in human brain in vivo. <b>2012</b> , 25, 285-96		5
471	Ischemic cerebral damage: an appraisal of synaptic failure. <b>2012</b> , 43, 607-15		160
470	Interleukin-1beta does not affect the energy metabolism of rat organotypic hippocampal-slice cultures. <b>2012</b> , 508, 114-8		1
469	Impact of fingolimod therapy on magnetic resonance imaging outcomes in patients with multiple sclerosis. <b>2012</b> , 69, 1259-69		83
468	Diffusion MRI at 25: exploring brain tissue structure and function. <i>NeuroImage</i> , <b>2012</b> , 61, 324-41	7.9	305
467	Early development of arterial spin labeling to measure regional brain blood flow by MRI. <i>NeuroImage</i> , <b>2012</b> , 62, 602-7	7.9	26
466	Is there a path beyond BOLD? Molecular imaging of brain function. <i>NeuroImage</i> , <b>2012</b> , 62, 1208-15	7.9	24
465	Magnetic Resonance Imaging of the Mouse Brain. <b>2012</b> , 473-488		2
464	Neuroimaging in acute stroke. <b>2012</b> , 30, 659-80		9
463	A diffusion-weighted magnetic resonance imaging-based study of transcervical carotid stenting with flow reversal versus transfemoral filter protection. <b>2012</b> , 56, 1585-90		71
462	MRI Characterization of Progressive Brain Alterations After Experimental Traumatic Brain Injury: Region Specific Tissue Damage, Hemodynamic Changes and Axonal Injury. <b>2012</b> ,		
461	Mapping apparent eccentricity and residual ensemble anisotropy in the gray matter using angular double-pulsed-field-gradient MRI. <i>Magnetic Resonance in Medicine</i> , <b>2012</b> , 68, 794-806	4.4	39
460	Diffusion kurtosis imaging and log-normal distribution function imaging enhance the visualisation of lesions in animal stroke models. <b>2012</b> , 25, 1295-304		45
459	Multimodal MRI of experimental stroke. <b>2012</b> , 3, 8-15		8
458	Sodium MRI and the assessment of irreversible tissue damage during hyper-acute stroke. <b>2012</b> , 3, 236-45		27
457	Mesenchymal stem cells induced to secrete neurotrophic factors attenuate quinolinic acid toxicity: a potential therapy for Huntington's disease. <b>2012</b> , 234, 417-27		58
456	Incorporating ADC temporal profiles to predict ischemic tissue fate in acute stroke. <b>2012</b> , 1458, 86-92		7

455	An efficient interlaced multi-shell sampling scheme for reconstruction of diffusion propagators. <b>2012</b> , 31, 1043-50		17
454	Background and Mathematical Analysis of Diffusion MRI Methods. <b>2012</b> , 22, 44-52		3
453	Fast radio-frequency enforced steady state (FRESS) spin echo MRI for quantitative T2 mapping: minimizing the apparent repetition time (TR) dependence for fast T2 measurement. <b>2012</b> , 25, 189-94		12
452	Multimodal assessment of early tumor response to chemotherapy: comparison between diffusion-weighted MRI, 1H-MR spectroscopy of choline and USPIO particles targeted at cell death. <b>2012</b> , 25, 514-22		16
451	Probing mouse brain microstructure using oscillating gradient diffusion MRI. <i>Magnetic Resonance in Medicine</i> , <b>2012</b> , 67, 98-109	4-4	75
450	Prospective motion correction with continuous gradient updates in diffusion weighted imaging. <i>Magnetic Resonance in Medicine</i> , <b>2012</b> , 67, 326-38	4-4	51
449	Recent MRI advances in experimental stroke. <b>2012</b> , 3, 1-3		10
448	Characterisation of endothelin-1-induced intrastriatal lesions within the juvenile and adult rat brain using MRI and 31P MRS. <b>2013</b> , 4, 351-67		6
447	Neuronal activity significantly reduces water displacement: DWI of a vital rat spinal cord with no hemodynamic effect. <i>NeuroImage</i> , <b>2013</b> , 76, 98-107	7-9	14
446	Sensitivities of statistical distribution model and diffusion kurtosis model in varying microstructural environments: a Monte Carlo study. <i>Journal of Magnetic Resonance</i> , <b>2013</b> , 230, 19-26	3	24
445	Diffusion-weighted magnetic resonance imaging for detecting and assessing ileal inflammation in Crohn's disease. <b>2013</b> , 37, 537-45		139
444	Perfusion imaging in acute ischemic stroke: let us improve the science before changing clinical practice. <b>2013</b> , 266, 16-21		80
443	Acute Ischemic Stroke: Evidence-Based Neuroimaging. <b>2013</b> , 147-166		
442	White matter maturation in the brains of Long Evans shaker myelin mutant rats by ex-vivo QSI and DTI. <b>2013</b> , 31, 1097-104		8
441	Detection of hypoxic-ischemic brain injury with 3D-enhanced T2* weighted angiography (ESWAN) imaging. <b>2013</b> , 82, 1973-80		4
440	Treatment of Acute Ischaemic Stroke. <b>2013</b> , 343-398		
439	Magnetic resonance imaging of perfusion-diffusion mismatch in rodent and non-human primate stroke models. <b>2013</b> , 35, 465-9		10
438	Improved image quality and detection of small cerebral infarctions with diffusion-tensor trace imaging. <b>2013</b> , 200, 1327-33		17

437	Molecular imaging in traditional Chinese medicine therapy for neurological diseases. <b>2013</b> , 2013, 608430	20
436	Subclinical cerebral edema in children with diabetic ketoacidosis randomized to 2 different rehydration protocols. <b>2013</b> , 131, e73-80	34
435	A hitchhiker's guide to diffusion tensor imaging. <b>2013</b> , 7, 31	404
434	Heparin dosing is associated with diffusion weighted imaging lesion load following aneurysm coiling. <b>2013</b> , 5, 366-70	12
433	Diffusion of hyperpolarized (13) C-metabolites in tumor cell spheroids using real-time NMR spectroscopy. <b>2013</b> , 26, 557-68	38
432	Modeling of the diffusion MR signal in calibrated model systems and nerves. <b>2013</b> , 26, 1787-95	12
431	A review of current imaging methods used in stroke research. <b>2013</b> , 35, 1092-102	20
430	Quantitative imaging of cerebral blood flow velocity and intracellular motility using dynamic light scattering-optical coherence tomography. <b>2013</b> , 33, 819-25	39
429	The Use of Diffusion Imaging to Detect Microstructure in the Preterm Brain. <b>2013</b> , 14, e483-e489	
428	Early detection of acute mesenteric ischemia using diffusion-weighted 3.0-T magnetic resonance imaging in a porcine model. <b>2013</b> , 48, 231-7	10
427	MRI biomarkers in acute ischemic stroke: a conceptual framework and historical analysis. <b>2013</b> , 44, 570-8	20
426	MRI reveals edema in larynx (but not in brain) during anaphylactic hypotension in anesthetized rats. <b>2013</b> , 5, 389-96	3
425	Quantitative in vivo detection of brain cell death after hypoxia ischemia using the lipid peak at 1.3 ppm of proton magnetic resonance spectroscopy in neonatal rats. <b>2013</b> , 28, 1071-6	4
424	Complete fourier direct magnetic resonance imaging (CFD-MRI) for diffusion MRI. <b>2013</b> , 7, 18	3
423	Non-Gaussian diffusion imaging for enhanced contrast of brain tissue affected by ischemic stroke. <b>2014</b> , 9, e89225	49
422	Gaussian Modeling of the Diffusion Signal. <b>2014</b> , 87-104	5
421	The history of MR imaging as seen through the pages of radiology. <b>2014</b> , 273, S181-200	64
420	Sequence design and evaluation of the reproducibility of water-selective diffusion-weighted imaging of the breast at 3 T. <b>2014</b> , 27, 1030-6	6

419	Effects of hypotonic stress and ouabain on the apparent diffusion coefficient of water at cellular and tissue levels in <i>Aplysia</i> . <b>2014</b> , 27, 280-90		14
418	Cytotoxic and vasogenic cerebral oedema in traumatic brain injury: assessment with FLAIR and DWI imaging. <b>2014</b> , 28, 1602-9		44
417	Experimental models of brain ischemia: a review of techniques, magnetic resonance imaging, and investigational cell-based therapies. <b>2014</b> , 5, 19		47
416	A macroscopic view of microstructure: using diffusion-weighted images to infer damage, repair, and plasticity of white matter. <b>2014</b> , 276, 14-28		80
415	Methylene blue treatment delays progression of perfusion-diffusion mismatch to infarct in permanent ischemic stroke. <b>2014</b> , 1588, 144-9		16
414	Diffusion MRI: what water tells us about the brain. <b>2014</b> , 6, 569-73		58
413	Lack of dystrophin results in abnormal cerebral diffusion and perfusion in vivo. <i>NeuroImage</i> , <b>2014</b> , 102 Pt 2, 809-16	7.9	17
412	Diffusion Tensor Imaging. <b>2014</b> , 77-86		1
411	Revealing mesoscopic structural universality with diffusion. <b>2014</b> , 111, 5088-93		206
410	Drag of the cytosol as a transport mechanism in neurons. <b>2014</b> , 106, 2710-9		9
409	Multiparametric magnetic resonance imaging of acute experimental brain ischaemia. <b>2014</b> , 80, 12-25		11
408	Magnetic resonance imaging characterization of microbial infections. <b>2014</b> , 93, 136-46		16
407	The Biological Basis of Diffusion Anisotropy. <b>2014</b> , 155-183		25
406	Inferring Microstructural Information of White Matter from Diffusion MRI. <b>2014</b> , 185-208		2
405	Degree of corticospinal tract damage correlates with motor function after stroke. <b>2014</b> , 1, 891-9		36
404	3D multi-slab diffusion-weighted readout-segmented EPI with real-time cardiac-reordered K-space acquisition. <i>Magnetic Resonance in Medicine</i> , <b>2014</b> , 72, 1565-79	4.4	30
403	Inflection Points in Magnetic Resonance Imaging Technology-35 Years of Collaborative Research and Development. <b>2015</b> , 50, 645-56		1
402	Investigation of the subcellular architecture of L7 neurons of <i>Aplysia californica</i> using magnetic resonance microscopy (MRM) at 7.8 microns. <b>2015</b> , 5, 11147		18

401	Case report of a young stroke patient showing interim normalization of the MRI diffusion-weighted imaging lesion. <b>2015</b> , 15, 33	2
400	Dynamics of water and sodium in gels under salt-induced phase transition. <b>2015</b> , 53, 1620-1628	5
399	Diffusion MRI with concurrent magnetic field monitoring. <i>Magnetic Resonance in Medicine</i> , <b>2015</b> , 74, 925-933	26
398	Novel Magnetic Resonance Imaging Techniques in Brain Tumors. <b>2015</b> , 24, 137-46	1
397	Imaging of amide proton transfer and nuclear Overhauser enhancement in ischemic stroke with corrections for competing effects. <b>2015</b> , 28, 200-9	37
396	Effect of Intravenous Thrombolysis on the Time Course of the Apparent Diffusion Coefficient in Acute Middle Cerebral Artery Infarction. <b>2015</b> , 25, 978-82	4
395	On the properties of the intensity-curvature measurement approaches: the classic-curvature and the intensity-curvature functional. <b>2015</b> , 6,	
394	References. <b>2015</b> , 185-192	
393	Integrated multimodal imaging of dynamic bone-tumor alterations associated with metastatic prostate cancer. <b>2015</b> , 10, e0123877	9
392	Diffusion Magnetic Resonance Imaging: What Water Tells Us about Biological Tissues. <b>2015</b> , 13, e1002203	121
391	Size Distribution Imaging by Non-Uniform Oscillating-Gradient Spin Echo (NOGSE) MRI. <b>2015</b> , 10, e0133201	28
390	In Acute Stroke, Can CT Perfusion-Derived Cerebral Blood Volume Maps Substitute for Diffusion-Weighted Imaging in Identifying the Ischemic Core?. <b>2015</b> , 10, e0133566	22
389	Structural and Functional Brain Remodeling during Pregnancy with Diffusion Tensor MRI and Resting-State Functional MRI. <b>2015</b> , 10, e0144328	15
388	Frequency-dependent conductivity contrast for tissue characterization using a dual-frequency range conductivity mapping magnetic resonance method. <b>2015</b> , 34, 507-13	12
387	Intensity-Curvature Measurement Approaches for the Diagnosis of Magnetic Resonance Imaging Brain Tumors. <b>2015</b> , 6, 1045-69	11
386	Limited reliability of computed tomographic perfusion acute infarct volume measurements compared with diffusion-weighted imaging in anterior circulation stroke. <b>2015</b> , 46, 419-24	70
385	Investigation of prolonged hypobaric hypoxia-induced change in rat brain using T2 relaxometry and diffusion tensor imaging at 7T. <b>2015</b> , 289, 106-13	8
384	Regional differences in the cerebral blood flow velocity response to hypobaric hypoxia at high altitudes. <b>2015</b> , 35, 1846-51	24

383	Reduction of Diffusion-Weighted Imaging Contrast of Acute Ischemic Stroke at Short Diffusion Times. <b>2015</b> , 46, 2136-41	51
382	Surgery of brain aneurysm in a BrainSuite(®) theater: A review of 105 cases. <b>2015</b> , 133, 34-9	5
381	Diffusional kurtosis and diffusion tensor imaging reveal different time-sensitive stroke-induced microstructural changes. <b>2015</b> , 46, 545-50	57
380	Early brain magnetic resonance imaging can predict short and long-term outcomes after organophosphate poisoning in a rat model. <b>2015</b> , 48, 206-16	11
379	Review of diffusion tensor imaging and its application in children. <b>2015</b> , 45 Suppl 3, S375-81	10
378	Therapeutic efficacy of brain imaging in acute ischemic stroke patients. <b>2015</b> , 42, 47-54	10
377	Diffusion weighted imaging: Technique and applications. <b>2016</b> , 8, 785-798	102
376	Stroke onset time estimation from multispectral quantitative magnetic resonance imaging in a rat model of focal permanent cerebral ischemia. <b>2016</b> , 11, 677-82	10
375	Selective Imaging of Malignant Ascites in a Mouse Model of Peritoneal Metastasis Using in Vivo Dynamic Nuclear Polarization-Magnetic Resonance Imaging. <b>2016</b> , 88, 2021-7	11
374	Cognitive Neuroscience Robotics B. <b>2016</b> ,	0
373	An overview of CEST MRI for non-MR physicists. <b>2016</b> , 3, 19	111
372	Magnetic Resonance Imaging (MRI) and Magnetic Resonance Spectroscopy (MRS). <b>2016</b> , 147-170	
371	MR Vascular Fingerprinting in Stroke and Brain Tumors Models. <b>2016</b> , 6, 37071	22
370	Noninvasive Brain Imaging in Small Animal Stroke Models: MRI, PET, and SPECT. <b>2016</b> , 147-186	1
369	Diffusion-Weighted MRI and apparent diffusion coefficient value in assessment of intra-medullary spinal cord masses. <b>2016</b> , 47, 1575-1584	1
368	New Magnetic Resonance Imaging Index for Renal Fibrosis Assessment: A Comparison between Diffusion-Weighted Imaging and T1 Mapping with Histological Validation. <b>2016</b> , 6, 30088	75
367	Ensemble average propagator-based detection of microstructural alterations after stroke. <b>2016</b> , 11, 1585-97	13
366	Interleukin-1beta-induced reduction of tissue water diffusion in the juvenile rat brain on ADC MRI is not associated with (31)P MRS-detectable energy failure. <b>2016</b> , 13, 9	0

365	The 100 most-cited articles in neuroimaging: A bibliometric analysis. <i>NeuroImage</i> , <b>2016</b> , 139, 149-156	7.9	46
364	A spatiotemporal theory for MRI T2 relaxation time and apparent diffusion coefficient in the brain during acute ischaemia: Application and validation in a rat acute stroke model. <b>2016</b> , 36, 1232-43		9
363	Modified triexponential analysis of intravoxel incoherent motion for brain perfusion and diffusion. <i>Journal of Magnetic Resonance Imaging</i> , <b>2016</b> , 43, 818-23	5.6	21
362	Orientation dependence of microcirculation-induced diffusion signal in anisotropic tissues. <i>Magnetic Resonance in Medicine</i> , <b>2016</b> , 76, 1252-62	4.4	21
361	Evolving roles of cross-sectional imaging in Crohn's disease. <b>2016</b> , 48, 975-83		7
360	Tongxinluo reduces brain edema and inhibits post-ischemic inflammation after middle cerebral artery occlusion in rats. <b>2016</b> , 181, 136-45		25
359	Clinical Intravoxel Incoherent Motion and Diffusion MR Imaging: Past, Present, and Future. <b>2016</b> , 278, 13-32		285
358	Magnetic Resonance Imaging of Cerebrovascular Diseases. <b>2016</b> , 768-789.e9		
357	Hypoxia and Inflammation-Induced Disruptions of the Blood-Brain and Blood-Cerebrospinal Fluid Barriers Assessed Using a Novel T1-Based MRI Method. <b>2016</b> , 121, 23-8		13
356	Historical: early multi-component FT-PGSE NMR self-diffusion measurements-some personal reflections. <b>2017</b> , 55, 386-394		7
355	Diffusion tensor imaging in abdominal organs. <b>2017</b> , 30, e3434		6
354	Thrombolytic and Endovascular Therapies for Acute Ischemic Stroke. <b>2017</b> , 559-591		
353	A comparative assessment of preclinical chemotherapeutic response of tumors using quantitative non-Gaussian diffusion MRI. <b>2017</b> , 37, 195-202		7
352	Harnessing Neuroimaging Capability in Pediatric Stroke: Proceedings of the Stroke Imaging Laboratory for Children Workshop. <b>2017</b> , 69, 3-10		2
351	The Potential for Advanced Magnetic Resonance Neuroimaging Techniques in Pediatric Stroke Research. <b>2017</b> , 69, 24-36		4
350	Sensitivity of diffusion MRI to perilesional reactive astrogliosis in focal ischemia. <b>2017</b> , 30, e3717		4
349	Peripheral Nerve Tissue Engineering and Regeneration Observed Using MRI. <b>2017</b> , 367-382		1
348	Technical Note: Development of a cranial phantom for assessing perfusion, diffusion, and biomechanics. <b>2017</b> , 44, 1646-1654		6

347	Water and lipid diffusion MRI using chemical shift displacement-based separation of lipid tissue (SPLIT). <b>2017</b> , 39, 144-148		1
346	Differential microstructural and morphological abnormalities in mild cognitive impairment and Alzheimer's disease: Evidence from cortical and deep gray matter. <b>2017</b> , 38, 2495-2508		43
345	An acetone-based phantom for quantitative diffusion MRI. <i>Journal of Magnetic Resonance Imaging</i> , <b>2017</b> , 46, 1683-1692	5.6	10
344	Neuropathic Pain and Spinal Cord Injury: Phenotypes and Pharmacological Management. <b>2017</b> , 77, 967-984		61
343	Multidimensional diffusion MRI. <i>Journal of Magnetic Resonance</i> , <b>2017</b> , 275, 98-113	3	120
342	Magnetic Resonance Imaging Protocol for Stroke Onset Time Estimation in Permanent Cerebral Ischemia. <b>2017</b> , 2017,		8
341	Acute changes in extracellular volume fraction in skeletal muscle monitored by Na NMR spectroscopy. <b>2017</b> , 5, e13380		7
340	Insignificance of active flow for neural diffusion weighted imaging: A negative result. <i>Magnetic Resonance in Medicine</i> , <b>2017</b> , 78, 746-753	4.4	5
339	Translational MR Neuroimaging of Stroke and Recovery. <b>2017</b> , 8, 22-32		26
338	Diffusion MRI of the spinal cord: from structural studies to pathology. <b>2017</b> , 30, e3592		21
337	Noninvasive Imaging Techniques for Brain Edema. <b>2017</b> , 51-69		0
336	Metabolic Support of Excised, Living Brain Tissues During Magnetic Resonance Microscopy Acquisition. <b>2017</b> ,		1
335	. <b>2017</b> ,		4
334	Design and validation of diffusion MRI models of white matter. <i>Frontiers in Physics</i> , <b>2017</b> , 28,	3.9	106
333	Hyperpolarized C Diffusion MRS of Co-Polarized Pyruvate and Fumarate to Measure Lactate Export and Necrosis. <b>2017</b> , 8, 3078-3085		13
332	Phantoms for diffusion-weighted imaging and diffusion tensor imaging quality control: a review and new perspectives. <b>2017</b> , 33, 156-165		5
331	In patients with suspected acute stroke, CT perfusion-based cerebral blood flow maps cannot substitute for DWI in measuring the ischemic core. <b>2017</b> , 12, e0188891		32
330	Treatment of Acute Ischemic Stroke. <b>2018</b> , 431-500		



329	JOURNAL CLUB: Evaluation of Diffusion Kurtosis Imaging of Stroke Lesion With Hemodynamic and Metabolic MRI in a Rodent Model of Acute Stroke. <b>2018</b> , 210, 720-727		15
328	Simultaneous multislice diffusion-weighted imaging in whole-body positron emission tomography/magnetic resonance imaging for multiparametric examination in oncological patients. <b>2018</b> , 28, 3372-3383		15
327	Oscillating gradient diffusion kurtosis imaging of normal and injured mouse brains. <b>2018</b> , 31, e3917		9
326	Advanced DWI Methods for the Assessment of Ischemic Stroke. <b>2018</b> , 210, 728-730		2
325	Use of T relaxation time in rotating frame (T <sub>ρ</sub> ) and apparent diffusion coefficient to estimate cerebral stroke evolution. <i>Journal of Magnetic Resonance Imaging</i> , <b>2018</b> , 48, 1247-1254	5.6	2
324	Hypoxic-Ischemic Injury in the Term Infant: Clinical-Neurological Features, Diagnosis, Imaging, Prognosis, Therapy. <b>2018</b> , 510-563.e15		14
323	Vascular and Tissue Changes of Magnetic Susceptibility in the Mouse Brain After Transient Cerebral Ischemia. <b>2018</b> , 9, 426-435		17
322	DPD of diffusion-weighted MRI. <b>2018</b> , 172, 467-473		0
321	Non-Invasive Thermometry with Magnetic Resonance Imaging. <b>2018</b> , 267-299		1
320	Changes in the ADC of diffusion-weighted MRI with the oscillating gradient spin-echo (OGSE) sequence due to differences in substrate viscosities. <b>2018</b> , 36, 415-420		7
319	Hybrid quantitative MRI using chemical shift displacement and recovery-based simultaneous water and lipid imaging: A preliminary study. <b>2018</b> , 50, 61-67		4
318	Efficient experimental designs for isotropic generalized diffusion tensor MRI (IGDTI). <i>Magnetic Resonance in Medicine</i> , <b>2018</b> , 79, 180-194	4.4	7
317	Imaging the physiological evolution of the ischemic penumbra in acute ischemic stroke. <b>2018</b> , 38, 1500-1516		69
316	Diffusion MRI and the detection of alterations following traumatic brain injury. <b>2018</b> , 96, 612-625		46
315	Intracellular water preexchange lifetime in neurons and astrocytes. <i>Magnetic Resonance in Medicine</i> , <b>2018</b> , 79, 1616-1627	4.4	34
314	Cerebral Edema After Cardiopulmonary Resuscitation: A Therapeutic Target Following Cardiac Arrest?. <b>2018</b> , 28, 276-287		31
313	Spreading depolarization is not an epiphenomenon but the principal mechanism of the cytotoxic edema in various gray matter structures of the brain during stroke. <b>2018</b> , 134, 189-207		85
312	Incomplete initial nutation diffusion imaging: An ultrafast, single-scan approach for diffusion mapping. <i>Magnetic Resonance in Medicine</i> , <b>2018</b> , 79, 2198-2204	4.4	4

311	MRI and clinical characteristics of suspected cerebrovascular accident in nine cats. <b>2018</b> , 20, 674-684		4
310	T1-Based MR Temperature Monitoring with RF Field Change Correction at 7.0T. <b>2018</b> , 22, 218		2
309	Transient ischemia facilitates neuronal chloride accumulation and severity of seizures. <b>2018</b> , 5, 1048-1061		5
308	Diagnostic Value of Diffusion-Weighted Imaging and Apparent Diffusion Coefficient in Assessment of the Activity of Crohn Disease: 1.5 or 3 T. <b>2018</b> , 42, 688-696		24
307	Magnetic Resonance Imaging Findings of Term and Preterm Hypoxic-Ischemic Encephalopathy: A Review of Relevant Animal Models and Correlation to Human Imaging. <b>2018</b> , 12, 55-65		8
306	In Vivo NMR Spectroscopy [Dynamic Aspects. <b>2018</b> , 129-210		1
305	Advances in MRI Methodology. <b>2018</b> , 141, 31-76		51
304	Detection and Distinction of Mild Brain Injury Effects in a Ferret Model Using Diffusion Tensor MRI (DTI) and DTI-Driven Tensor-Based Morphometry (D-TBM). <b>2018</b> , 12, 573		7
303	Accurate estimation of microscopic diffusion anisotropy and its time dependence in the mouse brain. <i>NeuroImage</i> , <b>2018</b> , 183, 934-949	7-9	33
302	Using MRI to predict the fate of excitotoxic lesions in rats. <b>2018</b> , 13, e0200659		2
301	Recent advances in the use of MRI to assess early human cortical development. <i>Journal of Magnetic Resonance</i> , <b>2018</b> , 293, 56-69	3	8
300	Clinical applications of diffusion weighted imaging in neuroradiology. <b>2018</b> , 9, 535-547		39
299	Mapping of brain tissue hematocrit in glioma and acute stroke using a dual autoradiography approach. <b>2018</b> , 8, 9878		3
298	Evaluation of the accuracy and precision of the diffusion parameter Estimation with Gibbs and Noise removal pipeline. <i>NeuroImage</i> , <b>2018</b> , 183, 532-543	7-9	59
297	Neonatal Neuroimaging. <b>2018</b> , 922-951.e5		
296	The influence of body temperature on tissue stiffness, blood perfusion, and water diffusion in the mouse brain. <b>2019</b> , 96, 412-420		4
295	The heme and radical scavenger $\beta$ -microglobulin (A1M) confers early protection of the immature brain following preterm intraventricular hemorrhage. <b>2019</b> , 16, 122		14
294	Diffusion NMR for the characterization, in solution, of supramolecular systems based on calixarenes, resorcinarenes, and other macrocyclic arenes. <b>2019</b> , 6, 1705-1718		22

293	Diffusion MR imaging acquisition and analytics for microstructural delineation in preclinical models of TBI. <b>2019,</b>		1
292	Searching for the neurite density with diffusion MRI: Challenges for biophysical modeling. <b>2019, 40, 2529-2545</b> 69		
291	Dynamics of Water Diffusion Changes in Different Tissue Compartments From Acute to Chronic Stroke-A Serial Diffusion Tensor Imaging Study. <b>2019, 10, 158</b>		8
290	Quantifying T relaxation time changes within lesions defined by apparent diffusion coefficient in grey and white matter in acute stroke patients. <b>2019, 64, 095016</b>		2
289	Magnetic resonance thermometry and its biological applications - Physical principles and practical considerations. <b>2019, 110, 34-61</b>		42
288	Brainlesion: Glioma, Multiple Sclerosis, Stroke and Traumatic Brain Injuries. <b>2019,</b>		3
287	Hemodynamically self-corrected ADC analysis in idiopathic normal pressure hydrocephalus. <b>2019, 92, 20180553</b>		3
286	DWI for Monitoring the Acute Response of Malignant Gliomas to Photodynamic Therapy. <i>American Journal of Neuroradiology</i> , <b>2019, 40, 2045-2051</b>	4.4	2
285	Improved Liver Diffusion-Weighted Imaging at 3 T Using Respiratory Triggering in Combination With Simultaneous Multislice Acceleration. <b>2019, 54, 744-751</b>		18
284	In vivo microscopic diffusional kurtosis imaging with symmetrized double diffusion encoding EPI. <i>Magnetic Resonance in Medicine</i> , <b>2019, 81, 533-541</b>	4.4	8
283	Silent brain infarcts on diffusion-weighted imaging after carotid revascularisation: A surrogate outcome measure for procedural stroke? A systematic review and meta-analysis. <b>2019, 4, 127-143</b>		20
282	Diffusion MRI of cancer: From low to high b-values. <i>Journal of Magnetic Resonance Imaging</i> , <b>2019, 49, 23-40</b>	5.6	55
281	Oscillating-gradient diffusion magnetic resonance imaging detects acute subcellular structural changes in the mouse forebrain after neonatal hypoxia-ischemia. <b>2019, 39, 1336-1348</b>		12
280	Deep convolutional neural network for automatically segmenting acute ischemic stroke lesion in multi-modality MRI. <b>2020, 32, 6545-6558</b>		30
279	Usefulness of Intracranial Pressure and Mean Arterial Pressure for Predicting Neurological Prognosis in Cardiac Arrest Survivors Who Undergo Target Temperature Management. <b>2020, 10, 165-170</b>		4
278	MoDL-MUSSELS: Model-Based Deep Learning for Multishot Sensitivity-Encoded Diffusion MRI. <b>2020, 39, 1268-1277</b>		14
277	Magnetic resonance electrical property mapping at 21.1 T: a study of conductivity and permittivity in phantoms, ex vivo tissue and in vivo ischemia. <b>2020, 65, 055007</b>		11
276	Infarct Evolution in a Large Animal Model of Middle Cerebral Artery Occlusion. <b>2020, 11, 468-480</b>		5

275	Constant gradient FEXSY: A time-efficient method for measuring exchange. <i>Journal of Magnetic Resonance</i> , <b>2020</b> , 311, 106667	3	3
274	Benefits of Silent DWI MRI in Success Rate, Image Quality, and the Need for Secondary Sedation During Brain Imaging of Children of 3-36 Months of Age. <b>2020</b> , 27, 543-549		7
273	New options for increasing the sensitivity, specificity and scope of synergistic contrast magnetic resonance imaging (scMRI) using Multiplied, Added, Subtracted and/or FiTted (MASTIR) pulse sequences. <b>2020</b> , 10, 2030-2065		2
272	Evaluation of the changes in hepatic apparent diffusion coefficient and hepatic fat fraction in healthy cats during body weight gain. <b>2020</b> , 81, 796-803		1
271	Longitudinal multiparametric MRI study of hydrogen-enriched water with minocycline combination therapy in experimental ischemic stroke in rats. <b>2020</b> , 1748, 147122		1
270	Challenges for biophysical modeling of microstructure. <b>2020</b> , 344, 108861		34
269	NODDI in clinical research. <b>2020</b> , 346, 108908		23
268	Lattice Boltzmann method for simulation of diffusion magnetic resonance imaging physics in multiphase tissue models. <b>2020</b> , 102, 043305		4
267	Diffusion tensor distribution imaging of an in vivo mouse brain at ultrahigh magnetic field by spatiotemporal encoding. <b>2020</b> , 33, e4355		5
266	Microstructure and Diffusion-Weighted Imaging in Neuropsychiatry: A Neuroradiology Perspective. <b>2020</b> , 5, 1009-1010		
265	Simultaneous Multislice Diffusion-Weighted Imaging of the Kidneys at 3 T. <b>2020</b> , 55, 233-238		13
264	Biexponential analysis of intravoxel incoherent motion in calf muscle before and after exercise: Comparisons with arterial spin labeling perfusion and T. <b>2020</b> , 72, 42-48		3
263	DeepDTI: High-fidelity six-direction diffusion tensor imaging using deep learning. <i>NeuroImage</i> , <b>2020</b> , 219, 117017	7.9	27
262	Lupeol Alleviates Cerebral Ischemia-Reperfusion Injury in Correlation with Modulation of PI3K/Akt Pathway. <b>2020</b> , 16, 1381-1390		5
261	Role of Radiographic Evolution: An Aid to Diagnose Periodontal Disease. <b>2020</b> ,		
260	Does Combining Biomarkers and Brain Images Provide Improved Prognostic Predictive Performance for Out-Of-Hospital Cardiac Arrest Survivors before Target Temperature Management?. <i>Journal of Clinical Medicine</i> , <b>2020</b> , 9,	5.1	12
259	On the Origins of Diffusion MRI Signal Changes in Stroke. <b>2020</b> , 11, 549		1
258	Correlation tensor magnetic resonance imaging. <i>NeuroImage</i> , <b>2020</b> , 211, 116605	7.9	29

257	Gradient waveform design for tensor-valued encoding in diffusion MRI. <b>2021</b> , 348, 109007		22
256	The present and the future of microstructure MRI: From a paradigm shift to normal science. <b>2021</b> , 351, 108947		9
255	Feasibility of oscillating and pulsed gradient diffusion MRI to assess neonatal hypoxia-ischemia on clinical systems. <b>2021</b> , 41, 1240-1250		3
254	Cancer Detection and Quantification of Treatment Response Using Diffusion-Weighted MRI. <b>2021</b> , 1091-1116		
253	Unraveling micro-architectural modulations in neural tissue upon ischemia by Correlation Tensor MRI.		0
252	Apparent exchange rate imaging: On its applicability and the connection to the real exchange rate. <i>Magnetic Resonance in Medicine</i> , <b>2021</b> , 86, 677-692	4.4	1
251	Diffusion Magnetic Resonance Imaging of Infants. <b>2021</b> , 29, 185-193		2
250	Diffusion-Weighted Imaging is Key to Diagnosing Specific Diseases. <b>2021</b> , 29, 163-183		1
249	Role of the noninvasive imaging techniques in monitoring and understanding the evolution of brain edema. <b>2021</b> ,		3
248	Quantification of Regional Cerebral Blood Flow Using Diffusion Imaging With Phase Contrast. <i>Journal of Magnetic Resonance Imaging</i> , <b>2021</b> , 54, 1678-1686	5.6	0
247	Whole-Brain Imaging of Subvoxel T1-Diffusion Correlation Spectra in Human Subjects. <b>2021</b> , 15, 671465		3
246	Diffusion weighted imaging in acute ischemic stroke: A review of its interpretation pitfalls and advanced diffusion imaging application. <b>2021</b> , 425, 117435		5
245	Timing the Ischemic Stroke by Multiparametric Quantitative Magnetic Resonance Imaging. 79-96		1
244	SuperDTI: Ultrafast DTI and fiber tractography with deep learning. <i>Magnetic Resonance in Medicine</i> , <b>2021</b> , 86, 3334-3347	4.4	4
243	Four Decades of Ischemic Penumbra and Its Implication for Ischemic Stroke. <b>2021</b> , 12, 937-945		8
242	Assessment of the effects of mimicking tissue microstructural properties on apparent diffusion coefficient and apparent exchange rate in diffusion MRI via a series of specially designed phantoms. <i>Magnetic Resonance in Medicine</i> , <b>2022</b> , 87, 292-301	4.4	
241	NODDI highlights recovery mechanisms in white and gray matter in ischemic stroke following human stem cell treatment. <i>Magnetic Resonance in Medicine</i> , <b>2021</b> , 86, 3211-3223	4.4	1
240	Hyperintense signal on diffusion-weighted imaging for monitoring the acute response and local recurrence after photodynamic therapy in malignant gliomas. <b>2021</b> , 155, 81-92		0

239	Spatiotemporal characterisation of ischaemic lesions in transient stroke animal models using diffusion free water elimination and mapping MRI with echo time dependence. <i>NeuroImage</i> , <b>2021</b> , 244, 118605	7.9	0
238	Magnetic Resonance Imaging of Cerebrovascular Diseases. <b>2022</b> , 676-698.e10		
237	Diffusion MRI-based connectivity. <b>2022</b> , 223-244		
236	Solution NMR of synthetic cavity containing supramolecular systems: what have we learned on and from?. <b>2021</b> , 57, 8856-8884		6
235	Diffusion MR of Acute Stroke. <b>2006</b> , 139-171		3
234	Perfusion MRI of Acute Stroke. <b>2006</b> , 173-197		3
233	Diffusion MRI and Q-Space Diffusion MRI: From Cerebral Ischemia to Multiple Sclerosis and Beyond. <b>2001</b> , 123-145		1
232	Principles and Horizons of Magnetic Resonance Imaging. <b>2000</b> , 39-71		1
231	The Hypoxic Brain. <b>1999</b> , 155-169		62
230	Diffusion-Weighted Magnetic Resonance Imaging. <b>1997</b> , 179-211		2
229	Histological assessment of rodent CNS tissues to EPR oximetry probe material. <b>1997</b> , 411, 13-21		7
228	Diffusion-Weighted and Perfusion-Weighted Magnetic Resonance Imaging in Clinical Stroke. <b>2001</b> , 57-69		1
227	NMR Methods in Studies of Brain Ischemia. <b>1992</b> , 135-158		1
226	Noninvasive Brain Imaging in Small Animal Stroke Models: MRI and PET. <b>2010</b> , 139-165		1
225	A Comparative Analysis of Cellular Morphological Differentiation Within the Cerebral Cortex Using Diffusion Tensor Imaging. <b>2011</b> , 329-351		8
224	MRI in experimental stroke. <b>2011</b> , 711, 473-85		2
223	DT-MRI Connectivity and/or Tractography?: Two New Algorithms. <b>2009</b> , 335-353		1
222	Volumetric Adversarial Training for Ischemic Stroke Lesion Segmentation. <b>2019</b> , 343-351		3

221	Magnetic Resonance Imaging. <b>2015</b> , 535-565	0
220	Emerging Rehabilitation in Cerebral Palsy. <b>2014</b> , 23-49	4
219	Characterization of Stroke Lesions Using a Histogram-Based Data Analysis Including Diffusion- and Perfusion-Weighted Imaging. <b>2000</b> , 76-80	1
218	Magnetic resonance imaging studies with cluster algorithm for characterization of brain edema after controlled cortical impact injury (CCII). <b>1998</b> , 71, 303-5	29
217	The normal and pathological physiology of brain water. <b>1997</b> , 23, 47-142	95
216	Proton spectroscopic imaging in cerebral ischaemia. Where we stand and what can be expected. <b>1992</b> , 19, 3-17	1
215	Early detection of ischemic injury: comparison of spectroscopy, diffusion-, T2-, and magnetic susceptibility-weighted MRI in cats. <b>1990</b> , 51, 207-9	14
214	Diffusion-weighted MR imaging and T2-weighted MR imaging in acute cerebral ischaemia: comparison and correlation with histopathology. <b>1990</b> , 51, 210-2	12
213	Magnetic resonance diffusion-weighted imaging: sensitivity and apparent diffusion constant in stroke. <b>1994</b> , 60, 207-10	5
212	Diffusion anisotropy of cerebral ischaemia. <b>1994</b> , 60, 216-9	2
211	Quantitative diffusion MR imaging of cerebral tumor and edema. <b>1994</b> , 60, 344-6	31
210	Clinical Systems Neuroscience. <b>2015</b> , 89-114	1
209	Magnetization Transfer and Diffusion-Weighted Magnetic Resonance Imaging in Multiple Sclerosis and Other White Matter Diseases. <b>2001</b> , 87-96	1
208	Salivary Gland Tumors: Preoperative Tissue Characterization with Apparent Diffusion Coefficient Mapping. <b>2010</b> , 255-269	2
207	Automatic Segmentation of the Optic Radiation Using DTI in Healthy Subjects and Patients with Glaucoma. <b>2011</b> , 1-15	1
206	Diffusion Spectroscopy in Living Systems. <b>1994</b> , 185-198	22
205	Introduction to Diffusion MR. <b>2014</b> , 3-9	4
204	Hypoxic-Ischemic Encephalopathy: Clinical Aspects. <b>2008</b> , 400-480	33

203	Brain Edema and Disorders of Cerebrospinal Fluid Circulation. <b>2012</b> , 1377-1395	2
202	Du mouvement Brownien aux images de la pens�e : l'IRM de diffusion. <b>2006</b> , 190, 1605-1627	1
201	DIFFUSION AND PERFUSION IMAGING TECHNIQUES. <b>1995</b> , 3, 425-438	16
200	Magnetic resonance imaging of hypoxic-ischemic brain injury in the neonatal rat. <b>1998</b> , 33, 377-85	19
199	In Vivo Excitotoxicity Induced by Ouabain, a Na <sup>+</sup> /K <sup>+</sup> -ATPase Inhibitor. <b>2003</b> , 62-74	18
198	Postanoxic encephalopathy: diffusion MR findings. <b>1998</b> , 22, 992-4	11
197	White matter variability, cognition, and disorders: a systematic review.	6
196	Imaging tutorial: differential diagnosis of bright lesions on diffusion-weighted MR images. <b>2003</b> , 23, e7	78
195	Alteration of intracellular metabolite diffusion in rat brain in vivo during ischemia and reperfusion. <b>1995</b> , 26, 1930-3; discussion 1934	110
194	A model to predict the histopathology of human stroke using diffusion and T2-weighted magnetic resonance imaging. <b>1995</b> , 26, 1983-9	161
193	Measurement of infarct size using MRI predicts prognosis in middle cerebral artery infarction. <b>1995</b> , 26, 2272-6	82
192	Combined perfusion and diffusion-weighted magnetic resonance imaging in a rat model of reversible middle cerebral artery occlusion. <b>1995</b> , 26, 451-7; discussion 457-8	67
191	Sensitivity of magnetic resonance diffusion-weighted imaging and regional relationship between the apparent diffusion coefficient and cerebral blood flow in rat focal cerebral ischemia. <b>1995</b> , 26, 667-74; discussion 674-5	33
190	Perfusion and diffusion-weighted MR imaging for in vivo evaluation of treatment with U74389G in a rat stroke model. <b>1995</b> , 26, 1453-8	48
189	Evolution of photochemically induced focal cerebral ischemia in the rat. Magnetic resonance imaging and histology. <b>1996</b> , 27, 2110-8; discussion 2118-9	55
188	Effect of basic fibroblast growth factor on experimental focal ischemia studied by diffusion-weighted and perfusion imaging. <b>1996</b> , 27, 2292-7; discussion 2298	27
187	Severe transient hypoglycemia causes reversible change in the apparent diffusion coefficient of water. <b>1996</b> , 27, 1648-55; discussion 1655-6	86
186	Spreading of vasogenic edema and cytotoxic edema assessed by quantitative diffusion and T2 magnetic resonance imaging. <b>1997</b> , 28, 419-26; discussion 426-7	160



185	Absolute quantitation of diffusion constants in human stroke. <b>1997</b> , 28, 483-90	126
184	Transgenic rats as models for studying the role of ornithine decarboxylase expression in permanent middle cerebral artery occlusion. <b>1997</b> , 28, 639-45	22
183	Glycine site antagonist attenuates infarct size in experimental focal ischemia. Postmortem and diffusion mapping studies. <b>1997</b> , 28, 1255-62; discussion 1263	45
182	Hemodialysis increases apparent diffusion coefficient of brain water in nephrectomized rats measured by isotropic diffusion-weighted magnetic resonance imaging. <b>1996</b> , 98, 750-5	39
181	Transient cerebral ischemia. Association of apoptosis induction with hypoperfusion. <b>1997</b> , 99, 1453-9	51
180	Magnetic Resonance Imaging of the Common Marmoset Head. <b>1998</b> , 26, 343-356	2
179	Late glial swelling after acute cerebral hypoxia-ischemia in the neonatal rat: a combined magnetic resonance and histochemical study. <b>1997</b> , 42, 54-9	68
178	Magnetic resonance imaging during cerebral hypoxia-ischemia: T2 increases in 2-week-old but not 4-week-old rats. <b>1999</b> , 45, 173-9	11
177	Biphasic edema after hypoxic-ischemic brain injury in neonatal rats reflects early neuronal and late glial damage. <b>1999</b> , 46, 297-304	59
176	Brain adaptation to water loading in rabbits as assessed by NMR relaxometry. <b>1999</b> , 46, 450-4	12
175	Evaluation of early reperfusion and i.v. tPA therapy using diffusion- and perfusion-weighted MRI. <b>1999</b> , 52, 1792-8	156
174	Effectiveness of CT Computed Tomography Perfusion in Diagnostics of Acute Ischemic Stroke. <b>2015</b> , 80, 549-54	1
173	Characterizing tumor response to chemotherapy at various length scales using temporal diffusion spectroscopy. <b>2012</b> , 7, e41714	36
172	Fractional anisotropy in corpus callosum is associated with facilitation of motor representation during ipsilateral hand movements. <b>2014</b> , 9, e104218	11
171	Advances in neuroimaging of traumatic brain injury and posttraumatic stress disorder. <b>2009</b> , 46, 717-57	69
170	Magnetic resonance characterization of ischemic tissue metabolism. <b>2011</b> , 5, 66-73	4
169	MRI of perfusion-diffusion mismatch in non-human primate (baboon) stroke: a preliminary report. <b>2011</b> , 5, 147-52	11
168	Imaging Stroke Evolution after Middle Cerebral Artery Occlusion in Non-human Primates. <b>2011</b> , 5, 216-24	3

167	The physical and biological basis of quantitative parameters derived from diffusion MRI. <b>2012</b> , 2, 254-65	95
166	The potential role of novel diffusion imaging techniques in the understanding and treatment of epilepsy. <b>2015</b> , 5, 279-87	21
165	The macrosphere model-an embolic stroke model for studying the pathophysiology of focal cerebral ischemia in a translational approach. <b>2015</b> , 3, 123	6
164	Studies on the time course of apparent diffusion coefficient and signal intensities on T2- and diffusion-weighted MR Imaging in acute cerebral ischemic stroke. <b>2008</b> , 33, 162-70	15
163	Methylene blue treatment in experimental ischemic stroke: a mini review. <b>2016</b> , 2, 48-53	15
162	Noninvasive quantification of axon radii using diffusion MRI. <b>2020</b> , 9,	67
161	A Case Report of Carotid Stenosis treated with Emergent Carotid Stenting : Usefulness of MR Diffusion-weighted Imaging for Evaluation of Microembolism. <b>2000</b> , 9, 25-29	
160	MR DIFFUSION IMAGING OF THE CERVICAL SPINE: Technical Considerations and Potential Clinical Applications. <b>2000</b> , 8, 675-686	21
159	Indication of Revascularization for Cerebral Main Trunk Occlusion Using MR Diffusion Weighted Image.. <b>2001</b> , 29, 40-46	1
158	Evaluation of Radial-scan Diffusion-weighted Imaging Usign the Back-projection Method. <b>2001</b> , 57, 628-633	
157	Klinische Pathophysiologie des ischämischen Insults. <b>2001</b> , 103-122	
156	Diffusion-weighted and perfusion-weighted MR of cerebral vasospasm. <b>2001</b> , 77, 121-6	6
155	Radiology. <b>2001</b> , 175-220	
154	Translating Experimental Stroke Research into the Clinical Arena. <b>2001</b> , 263-278	
153	Computertomographie und Magnetresonanztomographie beim Schlaganfall. <b>2001</b> , 167-195	
152	Evaluation and analysis of brain attack using MR functional imaging. <b>2002</b> , 269-292	
151	MRI Measurement of Cerebral Water Diffusion and Its Application to Experimental Research. <b>2002</b> , 55-91	
150	Computertomographie beim Schlaganfall. <b>2003</b> , 25-35	0

- 149 Prediction of tissue survival after stroke based on changes in the apparent diffusion of water (cytotoxic edema). **2003**, 86, 137-40 4
- 148 The Past, Present And Future Of Magnetic Resonance Imaging. **2003**, 283-294 1
- 147 Imaging for Tissue Characterization in Multiple Sclerosis and Other White Matter Diseases. **2004**, 83-95
- 146 Anatomical Connectivity in the Central Nervous System Revealed by Diffusion Tensor Magnetic Resonance Imaging (DT-MRI). **2004**, 145-169
- 145 Imaging and Management of Acute Stroke. **2004**, 20-26
- 144 Brain Ischemia. **2004**, 27-33
- 143 Use of Magnetic Resonance Imaging for Evaluation of Treatment Response. 1
- 142 MR Diffusion and Perfusion Imaging in Epilepsy. **2005**, 315-332 1
- 141 Disturbed Proton Diffusion. **2006**, 117-131
- 140 Hypoxic-Ischemic Lesions. **2006**, 239-250
- 139 Insights from Experimental Studies. **2006**, 41-73
- 138 3.0 T Diffusion Studies. **2006**, 66-78
- 137 Minimization on Discrete Errors in Diffusion Simulation of Nuclear Magnetization. **2007**, 31, 279-282
- 136 Changes in Diffusion Properties of Biological Tissues Associated with Mechanical Strain. **2007**, 31, 283-287
- 135 Magnetic Resonance Imaging Assessment of the Ischemic Penumbra in Experimental Stroke. **2007**, 205-214
- 134 ??????MRI-??□?????????- **2008**, 4, 210-210
- 133 Magnetic Resonance Imaging in Stroke Study. **2008**, 257-273
- 132 Thrombolysis for Acute Ischemic Stroke. **2009**, 301-346

- 131 Detection of Small Hepatic Lesions: Superparamagnetic Oxide-Enhanced Diffusion-Weighted T2 FSE Imaging. **2009**, 213-219
- 130 Practical and Intuitive Basis for Tensor Field Processing with Invariant Gradients and Rotation Tangents. **2009**, 299-314 1
- 129 Brain Magnetic Resonance Spectroscopy. **2009**, 361-397 1
- 128 Noise-Reduced TPS Interpolation of Primary Vector Fields for Fiber Tracking in Human Cardiac DT-MRI. **2009**, 78-86 2
- 127 Diffusion Tensor Imaging in Rat Models of Invasive Brain Tumors. **2011**, 131-144
- 126 Diffusion MR of Acute Stroke. **2011**, 145-174
- 125 Imaging of the Brain in Cardiac Surgery as a Tool in Brain Protection Studies. **2011**, 65-72
- 124 Current Techniques of Emboli Detection and Their Utility in Brain Protection Studies. **2011**, 73-81
- 123 Water and the Mind. **2010**, 289-332
- 122 Physical Principles of Diffusion Imaging. **2011**, 3-11
- 121 11 Neuroimaging in Acute Ischemic Stroke. **2011**, 183-198
- 120 Experimental stroke research: the contributions of in vivo MRI. **2011**, 771, 255-75
- 119 Stroke: Clinical Application of Perfusion and Diffusion. **2011**, 107-115
- 118 Mapping white matter pathways with diffusion imaging tractography: focus on neurosurgical applications. **2011**, 61-75 1
- 117 Diffusion Sensitive Magnetic Resonance Imaging of the Central Nervous System. **2012**, 65-78
- 116 Acute Ischemic Stroke. **2013**, 757-769
- 115 Development of NMR: Magnetic Resonance Imaging During the Past Two Decades.
- 114 Neuroendovascular Medical Devices. **2013**, 529-554

- 113 Apparent Diffusion Coefficient Mapping Using a Multi-Shot Spiral MRI Sequence of the Rat Brain. **2014**, 04, 13-24
- 112 MR Imaging of Diffusion. **1994**, 281-285
- 111 In vivo differentiation of edematous changes after stroke in spontaneously hypertensive rats using diffusion weighted MRI. **1994**, 60, 224-7 1
- 110 Diagnostic Imaging of Brain Function and Metabolism by Magnetic Resonance Methods. **1994**, 15-42
- 109 Mechanisms of brain injury associated with partial and complete occlusion of the MCA in cat. **1994**, 60, 211-5 2
- 108 Effect of mannitol on focal cerebral ischemia evaluated by magnetic resonance imaging. **1994**, 60, 228-30 3
- 107 Diffusion-Weighted Imaging. **1995**, 451-462
- 106 Magnetic Resonance Imaging of Cerebral Blood Flow\*\*The Pittsburgh NMR Center for Biomedical Research was established by grants from the Richard King Mellon Foundation, the Lucille P. Markey Charitable Trust, the Ben Franklin Partnership Program of the Commonwealth of Pennsylvania, and
- 105 fMRI Brain Mapping: Clinical Applications of Functional Magnetic Resonance Imaging\*\*I thank all our colleagues at the MGH-NMR Center, particularly Drs. Aronen, Benson, Breiter, Chesler, Cohen, Jiang, Kennedy, Kosslyn, Tootell, Weisskoff, and Brady. This work was supported by grants from General Electric, Human Frontier Science Program Organization, McDonnell-Pew Program in Cognitive Neuroscience, and the National Institutes of Health. **1995**, 519-539 1
- 104 Combination Therapy with Cytoprotective Agents. **1995**, 174-181
- 103 New MR Technologies for Diagnosis of Acute Ischemic Stroke: MR Angiography, Diffusion, and Perfusion Imaging. **1995**, 81-85 1
- 102 Applications of Diffusion-Weighted Magnetic Resonance Imaging for Stroke Diagnosis and Treatment. **1995**, 115-123 1
- 101 STROKE AND ISCHEMIA. **1995**, 3, 529-540 3
- 100 High-Speed Echo-Planar Imaging and its Application to Neurology. **1997**, 213-239
- 99 A Magnetic Resonance Imaging Study of the Brain and the Spinal Cord During Ischemia. **1997**, 183-186
- 98 Imaging Techniques for Focal Ischemic Damage. **1997**, 136-141
- 97 Treatment of Acute Brain Infarction. **1997**, 6, 813-818
- 96 Principles and Clinical Applications of Functional Brain Imaging. **1997**, 33-42

- 95 Clinical Applications of Neuroimaging Using Echo-Planar Imaging. **1998**, 465-491
- 94 Detection of a Fresh Infarcted Lesion using Echo Planar Diffusion-weighted MR image in a Patient with Multiple Infarction:A Case Report. **1998**, 7, 767-771
- 93 Diffusion Imaging with Echo-Planar Imaging. **1998**, 311-324
- 92 Ultrafast Magnetic Resonance Imaging of the Brain and Spine. **1998**, 53-101
- 91 Central Nervous System. **1999**, 195-218
- 90 NMR Diffusion Measurements in Chemical and Biological Supramolecular Systems. **1999**, 301-306
- 89 Cluster Analysis of Multiparametric MR Imaging including ADC Maps and Relaxometry for Spatially High-Resolved Differentiation of Healthy and Ischemic Human Brain Tissue. **1999**, 15-34 1
- 88 Monitoring und Gewebecharakterisierung humaner Hirninfarkte mittels multimodaler Kernspintomographie einschließlich Diffusions- und Perfusionsbildgebung. **1999**, 97-101
- 87 Assessment of brain tissue viability under clinical circumstances. **1999**, 73, 73-80
- 86 Health Department Clinics as Immunization Provides for Pediatric Patients in Urban and Rural Settings--A 1998 National Survey. **1999**, 45, 131A-131A
- 85 Diffusion Weighted MRI: A Practical and Quick Approach to Evaluate Brain Death. **2015**, 04, 113-123
- 84 Principles of Magnetic Resonance Imaging. **2015**, 121-144
- 83 Temperature-Range-Dependent Optimization of Noninvasive MR Thermometry Methods. **2015**, 36, 241-250 1
- 82 A brief report on MRI investigation of experimental traumatic brain injury. **2016**, 11, 15-7 4
- 81 [2. Development of Neuroimaging Using Preclinical MRI, and the Clinical Application]. **2017**, 73, 1277-1284
- 80 Current Imaging Strategies for Patient Selection in Acute Ischemic Stroke Trials. **2017**, 751-774
- 79 3.0 T Diffusion Studies. **2017**, 83-88
- 78 Akuter Schlaganfall. **2017**, 697-708

- 77 Acute characterization of tissue and functional deficits in a clinically translatable pig model of ischemic stroke.
- 76 How MRI Makes the Brain Visible. **2020**, 201-212 ○
- 75 Evaluating the Utility of High b-value Computed Diffusion Weighted Imaging Using Extrapolation Technique on the Liver. **2019**, 29, 19-26
- 74 Advanced Diffusion MRI : Non-Gaussian Analysis for the Clinic. **2020**, 40, 91-101
- 73 Physical and Physiological Principles of Diffusion. *Advances in Magnetic Resonance Technology and Applications*, **2020**, 457-476 0.1 ○
- 72 Neuroimaging of early brain development and the consequences of preterm birth. *Advances in Magnetic Resonance Technology and Applications*, **2021**, 2, 429-465 0.1
- 71 White matter variability, cognition, and disorders: a systematic review. **2021**, 1 6
- 70 A Case of Fat Embolism Syndrome with Cerebral Involvement in Sickle Cell Anemia. **2021**, 45, 269-273 1
- 69 In vivo Correlation Tensor MRI reveals microscopic kurtosis in the human brain on a clinical 3T scanner.
- 68 Magnetic Resonance Essentials for Correlative Imaging of the Brain with PET and SPECT. **2008**, 226-233
- 67 Quantitative Diffusion Imaging. **2005**, 63-81
- 66 Magnetic Resonance Imaging. **2007**, 515-542
- 65 Animal Models in Functional Magnetic Resonance Imaging. **2008**, 483-498
- 64 Intracerebral Imaging and Carotid Artery Stenosis. 69-84
- 63 Brain, Head, and Neck. **2008**, 169-533
- 62 Small isotropic 3D diffusion tensor mapping of the rat brain using water-excitation diffusion-weighted 3D MP-RAGE MR sequence. **2007**, 1447-1450
- 61 Imaging of Cerebral Ischemia. **2007**, 293-311
- 60 New developments in magnetic resonance imaging of the brain. *Neurotherapeutics*, **2004**, 1, 155-164 6.4

59	Strategies for assessing diffusion anisotropy on the basis of magnetic resonance images: comparison of systematic errors. <i>Journal of Medical Signals and Sensors</i> , <b>2014</b> , 4, 85-93	1	2
58	Use of diffusion-weighted MR imaging in differential diagnosis between intracerebral necrotic tumors and cerebral abscesses. <i>American Journal of Neuroradiology</i> , <b>1999</b> , 20, 1252-7	4.4	188
57	Value of diffusion-weighted imaging and apparent diffusion coefficient in recent cerebral infarctions: a correlative study with contrast-enhanced T1-weighted imaging. <i>American Journal of Neuroradiology</i> , <b>1999</b> , 20, 193-8	4.4	17
56	Traumatic brain injury: diffusion-weighted MR imaging findings. <i>American Journal of Neuroradiology</i> , <b>1999</b> , 20, 1636-41	4.4	143
55	MR line-scan diffusion-weighted imaging of term neonates with perinatal brain ischemia. <i>American Journal of Neuroradiology</i> , <b>1999</b> , 20, 1658-70	4.4	96
54	Outcome of acute ischemic lesions evaluated by diffusion and perfusion MR imaging. <i>American Journal of Neuroradiology</i> , <b>1999</b> , 20, 983-9	4.4	37
53	A comparison of fast spin-echo, fluid-attenuated inversion-recovery, and diffusion-weighted MR imaging in the first 10 days after cerebral infarction. <i>American Journal of Neuroradiology</i> , <b>1999</b> , 20, 1535-42	4.4	43
52	The need for objective assessment of the new imaging techniques and understanding the expanding roles of stroke imaging. <i>American Journal of Neuroradiology</i> , <b>1999</b> , 20, 1779-84	4.4	6
51	Acute stroke evaluated by time-to-peak mapping during initial and early follow-up perfusion CT studies. <i>American Journal of Neuroradiology</i> , <b>1999</b> , 20, 1842-50	4.4	70
50	Diffusion-negative stroke: a report of two cases. <i>American Journal of Neuroradiology</i> , <b>1999</b> , 20, 1876-80	4.4	35
49	Assessment of diffusion and perfusion deficits in patients with small subcortical ischemia. <i>American Journal of Neuroradiology</i> , <b>2003</b> , 24, 1355-63	4.4	11
48	Diffusion-weighted imaging patterns of brain damage associated with cerebral venous thrombosis. <i>American Journal of Neuroradiology</i> , <b>2001</b> , 22, 261-8	4.4	110
47	High-b-value diffusion-weighted MR imaging of suspected brain infarction. <i>American Journal of Neuroradiology</i> , <b>2000</b> , 21, 1821-9	4.4	54
46	MR imaging in comatose survivors of cardiac resuscitation. <i>American Journal of Neuroradiology</i> , <b>2001</b> , 22, 1561-5	4.4	147
45	Detection of intracranial hemorrhage: comparison between gradient-echo images and b(0) images obtained from diffusion-weighted echo-planar sequences. <i>American Journal of Neuroradiology</i> , <b>2001</b> , 22, 1275-81	4.4	58
44	Acute postischemic renormalization of the apparent diffusion coefficient of water is not associated with reversal of astrocytic swelling and neuronal shrinkage in rats. <i>American Journal of Neuroradiology</i> , <b>2002</b> , 23, 180-8	4.4	45
43	Association of early CT abnormalities, infarct size, and apparent diffusion coefficient reduction in acute ischemic stroke. <i>American Journal of Neuroradiology</i> , <b>2004</b> , 25, 933-8	4.4	16
42	Evolution of apparent diffusion coefficient, diffusion-weighted, and T2-weighted signal intensity of acute stroke. <i>American Journal of Neuroradiology</i> , <b>2001</b> , 22, 637-44	4.4	185



41	Sequential MR imaging changes in nonketotic hyperglycinemia. <i>American Journal of Neuroradiology</i> , <b>2006</b> , 27, 208-11	4.4	39
40	Histopathologic correlates of temporal diffusion changes in a rat model of cerebral hypoxia/ischemia. <i>American Journal of Neuroradiology</i> , <b>2000</b> , 21, 60-6	4.4	26
39	Effect of thin-section diffusion-weighted MR imaging on stroke diagnosis. <i>American Journal of Neuroradiology</i> , <b>2005</b> , 26, 560-5	4.4	17
38	Selecting the best index for following the temporal evolution of apparent diffusion coefficient and diffusion anisotropy after hypoxic-ischemic white matter injury in neonates. <i>American Journal of Neuroradiology</i> , <b>2005</b> , 26, 469-81	4.4	23
37	Neuronal and glial cell populations in the piriform cortex distinguished by using an approximation of q-space imaging after status epilepticus. <i>American Journal of Neuroradiology</i> , <b>2004</b> , 25, 1225-33	4.4	15
36	Cerebral aneurysms treated by Guglielmi detachable coils: evaluation with diffusion-weighted MR imaging. <i>American Journal of Neuroradiology</i> , <b>2000</b> , 21, 957-63	4.4	50
35	Multiple sclerosis: comparison of trace apparent diffusion coefficients with MR enhancement pattern of lesions. <i>American Journal of Neuroradiology</i> , <b>2000</b> , 21, 869-74	4.4	88
34	Diffusion-weighted MR imaging of metastatic disease of the spine: assessment of response to therapy. <i>American Journal of Neuroradiology</i> , <b>2002</b> , 23, 906-12	4.4	100
33	Tissue at risk is overestimated in perfusion-weighted imaging: MR imaging in acute stroke patients without vessel recanalization. <i>American Journal of Neuroradiology</i> , <b>2005</b> , 26, 815-9	4.4	32
32	Reversed discrepancy between CT and diffusion-weighted MR imaging in acute ischemic stroke. <i>American Journal of Neuroradiology</i> , <b>2006</b> , 27, 1990-5	4.4	10
31	A preliminary report of brain edema in patients with uremia at first hemodialysis: evaluation by diffusion-weighted MR imaging. <i>American Journal of Neuroradiology</i> , <b>2007</b> , 28, 68-71	4.4	46
30	Diffusion-weighted imaging in the setting of diffuse cortical laminar necrosis and hypoxic-ischemic encephalopathy. <i>American Journal of Neuroradiology</i> , <b>2004</b> , 25, 1659-65	4.4	52
29	Line scan diffusion imaging of the spine. <i>American Journal of Neuroradiology</i> , <b>2003</b> , 24, 5-12	4.4	56
28	Diffusion-weighted imaging of patients with subacute cerebral ischemia: comparison with conventional and contrast-enhanced MR imaging. <i>American Journal of Neuroradiology</i> , <b>2000</b> , 21, 1596-602	4.4	20
27	Diffusion-weighted MR imaging of intracerebral masses: comparison with conventional MR imaging and histologic findings. <i>American Journal of Neuroradiology</i> , <b>2001</b> , 22, 969-76	4.4	231
26	Diffusion-weighted MR imaging of the spinal cord. <i>American Journal of Neuroradiology</i> , <b>2000</b> , 21, 587-91	4.4	100
25	Predicting cerebral ischemic infarct volume with diffusion and perfusion MR imaging. <i>American Journal of Neuroradiology</i> , <b>2002</b> , 23, 1785-94	4.4	97
24	Diffusion as a probe of tissue microstructure. <i>Advances in Magnetic Resonance Technology and Applications</i> , <b>2021</b> , 4, 157-173	0.1	0

23	Interstitial Fluid Behavior and Diseases.. <i>Advanced Science</i> , <b>2022</b> , e2100617	13.6	2
22	Correlation Tensor MRI deciphers underlying kurtosis sources in stroke.. <i>NeuroImage</i> , <b>2021</b> , 247, 1188337.9	7.9	2
21	Pancreatic imaging using diffusivity mapping - Influence of sequence technique on qualitative and quantitative analysis.. <i>Clinical Imaging</i> , <b>2021</b> , 83, 33-40	2.7	1
20	Structural Neuroimaging: From Macroscopic to Microscopic Scales. <b>2022</b> , 1-35		
19	Quantification of Tissue Microstructure Using Tensor-Valued Diffusion Encoding: Brain and Body. <i>Frontiers in Physics</i> , <b>2022</b> , 10,	3.9	0
18	A 78'Seconds Complete Brain MRI Examination in Ischemic Stroke: A Prospective Cohort Study.. <i>Journal of Magnetic Resonance Imaging</i> , <b>2022</b> ,	5.6	0
17	Diffusion-Weighted MRI in the Genitourinary System.. <i>Journal of Clinical Medicine</i> , <b>2022</b> , 11,	5.1	0
16	In vivo Correlation Tensor MRI reveals microscopic kurtosis in the human brain on a clinical 3T scanner.. <i>NeuroImage</i> , <b>2022</b> , 119137	7.9	1
15	Current approaches and advances in the imaging of stroke. <i>DMM Disease Models and Mechanisms</i> , <b>2021</b> , 14,	4.1	1
14	Diffusion pore imaging in the presence of extraporal water.. <i>Journal of Magnetic Resonance</i> , <b>2022</b> , 339, 107219	3	
13	Applications. 313-368		
12	Rat Brain Global Ischemia-Induced Diffusion Changes Revisited: Biophysical Modeling of the Water and NAA MR "Diffusion Signal".. <i>Magnetic Resonance in Medicine</i> , <b>2022</b> ,	4.4	
11	Cerebrovascular Disease. <i>Circulation</i> , <b>2000</b> , 102,	16.7	
10	Diffusion MRI: Overview and clinical applications in neuroradiology. 44-60		6
9	Basics of diffusion and perfusion MRI. 13-23		1
8	High Resolution Ex Vivo Diffusion Tensor Distribution MRI of Neural Tissue. <i>Frontiers in Physics</i> , 10,	3.9	
7	A macroscopic link between interhemispheric tract myelination and cortico-cortical interactions during action reprogramming. <b>2022</b> , 13,		0
6	Applications of porous media in biological transport modeling. <b>2022</b> , 1-15		0

- 5 Water exchange rates measure active transport and homeostasis in neural tissue. ○
- 4 PerfU-Net: Baseline infarct estimation from CT perfusion source data for acute ischemic stroke. **2023**, 102749 ○
- 3 Structural Neuroimaging: From Macroscopic to Microscopic Scales. **2023**, 2917-2951 ○
- 2 The condensed matter physics of MRI. ○
- 1 A dynamic balance between neuronal death and clearance after acute brain injury. ○