Mark A Horsfield

List of Publications by Year
in descending order

115	8,372	57758	46799
papers	citations	44 h-index	89 g-index

115	115	115	8977
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Improved Assessment of Longitudinal Spinal Cord Atrophy in Multiple Sclerosis Using a <scp>Registrationâ€Based</scp> Approach: Relevance for Clinical Studies. Journal of Magnetic Resonance Imaging, 2022, 55, 1559-1568.	3.4	3
2	Structural connectivity in multiple sclerosis and modeling of disconnection. Multiple Sclerosis Journal, 2020, 26, 220-232.	3.0	28
3	Brain Tissue Pulsation in Healthy Volunteers. Ultrasound in Medicine and Biology, 2020, 46, 3268-3278.	1.5	4
4	Neurological impact of emboli during adult cardiac surgery. Journal of the Neurological Sciences, 2020, 416, 117006.	0.6	13
5	Perioperative Cerebral Microbleeds After Adult Cardiac Surgery. Stroke, 2019, 50, 336-343.	2.0	34
6	Aortic stiffness in aortic stenosis assessed by cardiovascular MRI: a comparison between bicuspid and tricuspid valves. European Radiology, 2019, 29, 2340-2349.	4.5	13
7	Sedentary Time and MRIâ€Derived Measures of Adiposity in Active Versus Inactive Individuals. Obesity, 2018, 26, 29-36.	3.0	17
8	Measurement of Whole-Brain and Gray Matter Atrophy in Multiple Sclerosis: Assessment with MR Imaging. Radiology, 2018, 288, 554-564.	7.3	47
9	Detection of Focal Longitudinal Changes in the Brain by Subtraction of MR Images. American Journal of Neuroradiology, 2017, 38, 923-927.	2.4	14
10	Brain MRI atrophy quantification in MS. Neurology, 2017, 88, 403-413.	1.1	188
11	Measurement of dose distribution from treatment of shallow brain tumors in BNCT by NIPAM polymer gel. Progress in Nuclear Energy, 2017, 100, 292-296.	2.9	2
12	Estimating Brain Lesion Volume Change in Multiple Sclerosis by Subtraction of Magnetic Resonance Images. Journal of Neuroimaging, 2016, 26, 395-402.	2.0	9
13	A Semi-automatic Method for Segmentation of Multiple Sclerosis Lesions on Dual-Echo Magnetic Resonance Images. Lecture Notes in Computer Science, 2016, , 80-90.	1.3	1
14	A Semiautomatic Method for Multiple Sclerosis Lesion Segmentation on Dual-Echo MR Imaging: Application in a Multicenter Context. American Journal of Neuroradiology, 2016, 37, 2043-2049.	2.4	5
15	Dynamic cerebral autoregulation following acute ischaemic stroke: Comparison of transcranial Doppler and magnetic resonance imaging techniques. Journal of Cerebral Blood Flow and Metabolism, 2016, 36, 2194-2202.	4.3	24
16	Characterisation of cardiomyopathy by cardiac and aortic magnetic resonance in patients new to hemodialysis. European Radiology, 2016, 26, 2749-2761.	4.5	15
17	Associations of Sedentary Time with Fat Distribution in a High-Risk Population. Medicine and Science in Sports and Exercise, 2015, 47, 1727-1734.	0.4	30
18	Size Distribution of Air Bubbles Entering the Brain during Cardiac Surgery. PLoS ONE, 2015, 10, e0122166.	2.5	35

#	Article	IF	Citations
19	A longitudinal MRI study of cervical cord atrophy in multiple sclerosis. Journal of Neurology, 2015, 262, 1622-1628.	3.6	19
20	Myocardial T1 and extracellular volume fraction measurement in asymptomatic patients with aortic stenosis: reproducibility and comparison with age-matched controls. European Heart Journal Cardiovascular Imaging, 2015, 16, 763-770.	1.2	67
21	Impact of Perioperative Infarcts After Cardiac Surgery. Stroke, 2015, 46, 680-686.	2.0	31
22	Intertechnique agreement and interstudy reproducibility of strain and diastolic strain rate at 1.5 and 3 tesla: A comparison of featureâ€tracking and tagging in patients with aortic stenosis. Journal of Magnetic Resonance Imaging, 2015, 41, 1129-1137.	3.4	64
23	Control of gas phase nanoparticle shape and its effect on MRI relaxivity. Materials Research Express, 2015, 2, 035002.	1.6	15
24	Comparison of semi-automated methods to quantify infarct size and area at risk by cardiovascular magnetic resonance imaging at 1.5T and 3.0T field strengths. BMC Research Notes, 2015, 8, 52.	1.4	27
25	T1- vs. T2-based MRI measures of spinal cord volume in healthy subjects and patients with multiple sclerosis. BMC Neurology, 2015, 15, 124.	1.8	21
26	Is Abdominal Fat Distribution Measured by Axial CT Imaging an Indicator of Complications and Mortality in Acute Pancreatitis?. Journal of Gastrointestinal Surgery, 2015, 19, 2126-2131.	1.7	22
27	Atrophy. , 2014, , 207-217.		0
28	Dynamic contrast-enhanced MRI parameters as biomarkers for the effect of vatalanib in patients with non-small-cell lung cancer. Future Oncology, 2014, 10, 823-833.	2.4	12
29	Intranetwork and internetwork functional connectivity abnormalities in pediatric multiple sclerosis. Human Brain Mapping, 2014, 35, 4180-4192.	3.6	40
30	Subclinical diastolic dysfunction in young adults with Type 2 diabetes mellitus: a multiparametric contrast-enhanced cardiovascular magnetic resonance pilot study assessing potential mechanisms. European Heart Journal Cardiovascular Imaging, 2014, 15, 1263-1269.	1.2	58
31	Posterior brain damage and cognitive impairment in pediatric multiple sclerosis. Neurology, 2014, 82, 1314-1321.	1.1	56
32	Ultra-high-field MR imaging in multiple sclerosis. Journal of Neurology, Neurosurgery and Psychiatry, 2014, 85, 60-66.	1.9	47
33	Dynamic variations in the ultrasound greyscale median of carotid artery plaques. Cardiovascular Ultrasound, 2013, 11, 21.	1.6	27
34	Regional Differences in Dynamic Cerebral Autoregulation in the Healthy Brain Assessed by Magnetic Resonance Imaging. PLoS ONE, 2013, 8, e62588.	2.5	30
35	Imaging Cortical Damage and Dysfunction in Multiple Sclerosis. JAMA Neurology, 2013, 70, 556.	9.0	27
36	Recommendations to improve imaging and analysis of brain lesion load and atrophy in longitudinal studies of multiple sclerosis. Journal of Neurology, 2013, 260, 2458-2471.	3.6	96

#	Article	IF	Citations
37	Voxel-wise mapping of cervical cord damage in multiple sclerosis patients with different clinical phenotypes. Journal of Neurology, Neurosurgery and Psychiatry, 2013, 84, 35-41.	1.9	42
38	Quantitative assessment of carotid plaque surface irregularities and correlation to cerebrovascular symptoms. Cardiovascular Ultrasound, 2013, 11, 38.	1.6	21
39	Wall motion in the stenotic carotid artery: association with greyscale plaque characteristics, the degree of stenosis and cerebrovascular symptoms. Cardiovascular Ultrasound, 2013, 11, 37.	1.6	9
40	Cortical Abnormalities in Patients with Migraine: A Surface-based Analysis. Radiology, 2013, 268, 170-180.	7.3	105
41	Microstructural magnetic resonance imaging of cortical lesions in multiple sclerosis. Multiple Sclerosis Journal, 2013, 19, 418-426.	3.0	38
42	Does Stroke Subtype and Measurement Technique Influence Estimation of Cerebral Autoregulation in Acute Ischaemic Stroke?. Cerebrovascular Diseases, 2013, 35, 257-261.	1.7	35
43	Gray matter damage predicts the accumulation of disability 13 years later in MS. Neurology, 2013, 81, 1759-1767.	1.1	174
44	Regional Cervical Cord Atrophy and Disability in Multiple Sclerosis: A Voxel-based Analysis. Radiology, 2013, 266, 853-861.	7.3	42
45	Brain network connectivity assessed using graph theory in frontotemporal dementia. Neurology, 2013, 81, 134-143.	1.1	139
46	Spatial Normalization and Regional Assessment of Cord Atrophy: Voxel-Based Analysis of Cervical Cord 3D T1-Weighted Images. American Journal of Neuroradiology, 2012, 33, 2195-2200.	2.4	37
47	Imaging vascular function for early stage clinical trials using dynamic contrast-enhanced magnetic resonance imaging. European Radiology, 2012, 22, 1451-1464.	4.5	138
48	Measurement of Cerebral Blood Flow Responses to the Thigh Cuff Maneuver: A Comparison of TCD with a Novel MRI Method. Journal of Cerebral Blood Flow and Metabolism, 2011, 31, 1302-1310.	4.3	19
49	Magnetic Resonance Techniques in Multiple Sclerosis. Archives of Neurology, 2011, 68, 1514.	4.5	120
50	Intercenter differences in diffusion tensor MRI acquisition. Journal of Magnetic Resonance Imaging, 2010, 31, 1458-1468.	3.4	81
51	Rapid semi-automatic segmentation of the spinal cord from magnetic resonance images: Application in multiple sclerosis. NeuroImage, 2010, 50, 446-455.	4.2	234
52	A functional form for injected MRI Gd-chelate contrast agent concentration incorporating recirculation, extravasation and excretion. Physics in Medicine and Biology, 2009, 54, 2933-2949.	3.0	18
53	3ÂT MRI relaxometry detects T2 prolongation in the cerebral normal-appearing white matter in multiple sclerosis. NeuroImage, 2009, 46, 633-641.	4.2	72
54	MRI in multiple sclerosis: current status and future prospects. Lancet Neurology, The, 2008, 7, 615-625.	10.2	295

#	Article	IF	Citations
55	MR Image Postprocessing for Multiple Sclerosis Research. Neuroimaging Clinics of North America, 2008, 18, 637-649.	1.0	3
56	Imaging the Effect of Anti-Angiogenic Tumor Therapy in Clinical Studies. , 2008, , 717-739.		0
57	Incorporating Domain Knowledge Into the Fuzzy Connectedness Framework: Application to Brain Lesion Volume Estimation in Multiple Sclerosis. IEEE Transactions on Medical Imaging, 2007, 26, 1670-1680.	8.9	20
58	Assessing atrophy of the major white matter fiber bundles of the brain from diffusion tensor MRI data. Magnetic Resonance in Medicine, 2007, 58, 527-534.	3.0	27
59	A Magnetization Transfer MRI Study of Deep Gray Matter Involvement in Multiple Sclerosis. Journal of Neuroimaging, 2006, 16, 302-310.	2.0	24
60	A simple, reproducible method for monitoring the treatment of tumours using dynamic contrast-enhanced MR imaging. British Journal of Cancer, 2006, 94, 1420-1427.	6.4	55
61	Biomarkers for assessment of pharmacologic activity for a vascular endothelial growth factor (VEGF) receptor inhibitor, PTK787/ZK 222584 (PTK/ZK): translation of biological activity in a mouse melanoma metastasis model to phase I studies in patients with advanced colorectal cancer with liver metastases. Cancer Chemotherapy and Pharmacology, 2006, 57, 761-771.	2.3	66
62	Age effects on diffusion tensor magnetic resonance imaging tractography measures of frontal cortex connections in schizophrenia. Human Brain Mapping, 2006, 27, 230-238.	3.6	224
63	Magnetization Transfer Imaging in Multiple Sclerosis. Journal of Neuroimaging, 2005, 15, 58S-67S.	2.0	69
64	Effect of device inhalational resistance on the three-dimensional configuration of the upper airway. Journal of Pharmaceutical Sciences, 2005, 94, 1418-1426.	3.3	11
65	Phase I Study of the Safety, Tolerability, Pharmacokinetics, and Pharmacodynamics of PTK787/ZK 222584 Administered Twice Daily in Patients With Advanced Cancer. Journal of Clinical Oncology, 2005, 23, 4162-4171.	1.6	230
66	A method for obtaining tract-specific diffusion tensor MRI measurements in the presence of disease: application to patients with clinically isolated syndromes suggestive of multiple sclerosis. NeuroImage, 2005, 26, 258-265.	4.2	182
67	Mean diffusivity and fractional anisotropy histogram analysis of the cervical cord in MS patients. NeuroImage, 2005, 26, 822-828.	4.2	123
68	A Diffusion Tensor Magnetic Resonance Imaging Study of Frontal Cortex Connections in Very-Late-Onset Schizophrenia-Like Psychosis. American Journal of Geriatric Psychiatry, 2005, 13, 1092-1099.	1.2	42
69	Interhemispheric asymmetry of brain diffusivity in normal individuals: a diffusion-weighted MR imaging study. American Journal of Neuroradiology, 2005, 26, 1089-94.	2.4	34
70	Algorithms for calculation of kinetic parameters from T1-weighted dynamic contrast-enhanced magnetic resonance imaging. Journal of Magnetic Resonance Imaging, 2004, 20, 723-729.	3.4	21
71	The role of imaging in the clinical development of antiangiogenic agents. Hematology/Oncology Clinics of North America, 2004, 18, 1183-1206.	2.2	16
72	Dynamic Change of the Upper Airway during Inhalation via Aerosol Delivery Devices. Journal of Aerosol Medicine and Pulmonary Drug Delivery, 2004, 17, 325-334.	1.2	31

#	Article	IF	Citations
73	A comparison of polyacrylamide gels and radiochromic film for source measurements in intravascular brachytherapy. British Journal of Radiology, 2003, 76, 824-831.	2.2	15
74	Guidelines for using quantitative magnetization transfer magnetic resonance imaging for monitoring treatment of multiple sclerosis. Journal of Magnetic Resonance Imaging, 2003, 17, 389-397.	3.4	66
75	Whole-brain atrophy in multiple sclerosis measured by two segmentation processes from various MRI sequences. Journal of the Neurological Sciences, 2003, 216, 169-177.	0.6	47
76	Dynamic Contrast-Enhanced Magnetic Resonance Imaging As a Biomarker for the Pharmacological Response of PTK787/ZK 222584, an Inhibitor of the Vascular Endothelial Growth Factor Receptor Tyrosine Kinases, in Patients With Advanced Colorectal Cancer and Liver Metastases: Results From Two Phase I Studies. Journal of Clinical Oncology, 2003, 21, 3955-3964.	1.6	648
77	Sensitivity-encoded diffusion tensor MR imaging of the cervical cord. American Journal of Neuroradiology, 2003, 24, 1254-6.	2.4	67
78	Spatial Normalization and Averaging of Diffusion Tensor MRI Data Sets. NeuroImage, 2002, 17, 592-617.	4.2	208
79	Restoration of Myocardial Blood Flow Following Percutaneous Coronary Balloon Dilatation and Stent Implantation: Assessment with Qualitative and Quantitative Contrast-Enhanced Magnetic Resonance Imaging. Clinical Radiology, 2002, 57, 593-599.	1.1	8
80	Applications of diffusion-weighted and diffusion tensor MRI to white matter diseases - a review. NMR in Biomedicine, 2002, 15, 570-577.	2.8	435
81	Isotropic resolution diffusion tensor imaging with whole brain acquisition in a clinically acceptable time. Human Brain Mapping, 2002, 15, 216-230.	3.6	172
82	A 6â€year clinical and MRI followâ€up study of patients with relapsingâ€“remitting multiple sclerosis treated with Interferonâ€beta. European Journal of Neurology, 2002, 9, 645-655.	3.3	65
83	Spatial normalization and averaging of diffusion tensor MRI data sets. NeuroImage, 2002, 17, 592-617.	4.2	96
84	The physical basis of diffusion-weighted MRI. Journal of the Neurological Sciences, 2001, 186, S11-S14.	0.6	54
85	Using diffusion-weighted MRI in multicenter clinical trials for multiple sclerosis. Journal of the Neurological Sciences, 2001, 186, S51-S54.	0.6	17
86	Activity revealed in MRI of multiple sclerosis without contrast agent A preliminary report. Magnetic Resonance Imaging, 2000, 18, 139-142.	1.8	7
87	Visualization of cranial nerves I-XII: value of 3D CISS and T2-weighted FSE sequences. European Radiology, 2000, 10, 1061-1067.	4.5	116
88	Cluster Analysis of Diffusion Tensor Magnetic Resonance Images in Human Head Injury. Neurosurgery, 2000, 47, 306-314.	1.1	57
89	Contrast-Reduced Imaging of Tissue Concentration and Arterial Level (CRITICAL) for Assessment of Cerebral Hemodynamics in Acute Stroke by Magnetic Resonance. Investigative Radiology, 2000, 35, 401-411.	6.2	26
90	Characterization of White Matter Damage in Ischemic Leukoaraiosis with Diffusion Tensor MRI. Stroke, 1999, 30, 393-397.	2.0	302

#	Article	IF	Citations
91	Echoplanar MRI in patients with an acute stroke syndrome.. British Journal of Radiology, 1999, 72, 914-921.	2.2	0
92	Mapping eddy current induced fields for the correction of diffusion-weighted echo planar images. Magnetic Resonance Imaging, 1999, 17, 1335-1345.	1.8	103
93	Protein-ligand interactions measured by 15N-filtered diffusion experiments. Journal of Biomolecular NMR, 1999, 13, 223-232.	2.8	23
94	An Optimized Pulse Sequence for Isotropically Weighted Diffusion Imaging. Journal of Magnetic Resonance, 1999, 140, 58-68.	2.1	12
95	Application of diffusion tensor MRI to neurological segmentation. International Journal of Imaging Systems and Technology, 1999, 10, 273-286.	4.1	5
96	Non-invasive assessment of axonal fiber connectivity in the human brain via diffusion tensor MRI. Magnetic Resonance in Medicine, 1999, 42, 37-41.	3.0	544
97	A myocardial perfusion reserve index in humans using first-pass contrast-enhanced magnetic resonance imaging. Journal of the American College of Cardiology, 1999, 33, 1386-1394.	2.8	195
98	Mechanism and Clinical Significance of Precordial ST Depression in Inferior Myocardial Infarction: Evaluation by Contrast-Enhanced Dynamic Myocardial Perfusion Magnetic Resonance Imaging. Journal of Cardiovascular Magnetic Resonance, 1999, 1, 121-130.	3.3	1
99	Guidelines for using quantitative measures of brain magnetic resonance imaging abnormalities in monitoring the treatment of multiple sclerosis. Annals of Neurology, 1998, 43, 499-506.	5.3	152
100	Magnetization transfer changes in the normal appering white matter precede the appearance of enhancing lesions in patients with multiple sclerosis. Annals of Neurology, 1998, 43, 809-814.	5.3	356
101	A one year study of new lesions in multiple sclerosis using monthly gadolinium enhanced MRI: Correlations with changes of T2 and magnetization transfer lesion loads. Journal of the Neurological Sciences, 1998, 158, 203-208.	0.6	25
102	The influence of clinical relapses and steroid therapy on the development of Gd-enhancing lesions: a longitudinal MRI study in relapsing-remitting multiple sclerosis patients. Acta Neurologica Scandinavica, 1997, 95, 201-207.	2.1	21
103	DynamicT1Measurement Using Snapshot-FLASH MRI. Journal of Magnetic Resonance, 1997, 127, 65-72.	2.1	31
104	Macroscopic and microscopic assessments of disease burden by MRI in multiple sclerosis: Relationship to clinical parameters. Journal of Magnetic Resonance Imaging, 1996, 6, 580-584.	3.4	50
105	Apparent diffusion coefficients in benign and secondary progressive multiple sclerosis by nuclear magnetic resonance. Magnetic Resonance in Medicine, 1996, 36, 393-400.	3.0	176
106	Estimation of the Characteristic Length Scales forB0Variation Using the OE-CTPG Pulse Sequence. Journal of Magnetic Resonance Series A, 1996, 122, 222-229.	1.6	3
107	Optimization of a Breath-Hold Magnetic Resonance Gradient Echo Technique for the Detection of Interstitial Lung Disease. Investigative Radiology, 1995, 30, 730-737.	6.2	13
108	Nuclear magnetic resonance imaging of dairy products in two and three dimensions. International Dairy Journal, 1995, 5, 311-319.	3.0	25

#	Article	IF	Citations
109	Benign and secondary progressive multiple sclerosis: a preliminary quantitative MRI study. Journal of Neurology, 1994, 241, 246-251.	3.6	48
110	Self-diffusion in CNS tissue by volume-selective proton NMR. Magnetic Resonance in Medicine, 1994, 31, 637-644.	3.0	42
111	Quantitative Determination of Water and Lipid in Sunflower Oil and Water/Meat/Fat Emulsions by Nuclear Magnetic Resonance Imaging. Journal of Food Science, 1994, 59, 808-812.	3.1	18
112	Depth Filtration of Clay in Rock Cores Observed by One-Dimensional 1H NMR Imaging. Journal of Colloid and Interface Science, 1993, 156, 253-255.	9.4	23
113	T1/T2 Ratio and Frequency Dependence of NMR Relaxation in Porous Sedimentary Rocks. Journal of Colloid and Interface Science, 1993, 158, 195-198.	9.4	134
114	Low-contrast secondary imbibition in long rock cores. Magnetic Resonance Imaging, 1991, 9, 803-808.	1.8	8
115	True water and fat MR imaging with use of multiple-echo acquisition.. Radiology, 1989, 173, 249-253.	7.3	20