

Paul S Tofts

List of Publications by Year in descending order

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107
papers

14,019
citations

44069

48
h-index

42399

92
g-index

112
all docs

112
docs citations

112
times ranked

12405
citing authors

#	ARTICLE	IF	CITATIONS
1	Estimating kinetic parameters from dynamic contrast-enhanced t1-weighted MRI of a diffusable tracer: Standardized quantities and symbols. Journal of Magnetic Resonance Imaging, 1999, 10, 223-232.	3.4	2,856
2	Measurement of the blood-brain barrier permeability and leakage space using dynamic MR imaging. 1. Fundamental concepts. Magnetic Resonance in Medicine, 1991, 17, 357-367.	3.0	1,354
3	Modeling tracer kinetics in dynamic Gd-DTPA MR imaging. Journal of Magnetic Resonance Imaging, 1997, 7, 91-101.	3.4	1,342
4	Imaging biomarker roadmap for cancer studies. Nature Reviews Clinical Oncology, 2017, 14, 169-186.	27.6	792
5	The assessment of antiangiogenic and antivascular therapies in early-stage clinical trials using magnetic resonance imaging: issues and recommendations. British Journal of Cancer, 2005, 92, 1599-1610.	6.4	487
6	Normal cerebral perfusion measurements using arterial spin labeling: Reproducibility, stability, and age and gender effects. Magnetic Resonance in Medicine, 2004, 51, 736-743.	3.0	395
7	Quantitative Analysis of Dynamic Gd-DTPA Enhancement in Breast Tumors Using a Permeability Model. Magnetic Resonance in Medicine, 1995, 33, 564-568.	3.0	392
8	Diffusion tensor imaging of post mortem multiple sclerosis brain. NeuroImage, 2007, 35, 467-477.	4.2	347
9	High field MRI correlates of myelin content and axonal density in multiple sclerosis. Journal of Neurology, 2003, 250, 1293-1301.	3.6	266
10	Quantitative magnetic resonance of postmortem multiple sclerosis brain before and after fixation. Magnetic Resonance in Medicine, 2008, 59, 268-277.	3.0	255
11	Quantitative magnetization transfer imaging in postmortem multiple sclerosis brain. Journal of Magnetic Resonance Imaging, 2007, 26, 41-51.	3.4	241
12	Sources of intensity nonuniformity in spin echo images at 1.5 T. Magnetic Resonance in Medicine, 1994, 32, 121-128.	3.0	239
13	Low-Grade Gliomas: Do Changes in rCBV Measurements at Longitudinal Perfusion-weighted MR Imaging Predict Malignant Transformation?. Radiology, 2008, 247, 170-178.	7.3	217
14	MR imaging of tumor microcirculation: Promise for the new millenium. Journal of Magnetic Resonance Imaging, 1999, 10, 903-907.	3.4	212
15	Improved accuracy of human cerebral blood perfusion measurements using arterial spin labeling: Accounting for capillary water permeability. Magnetic Resonance in Medicine, 2002, 48, 27-41.	3.0	181
16	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
17	A critical assessment of methods of measuring metabolite concentrations by NMR spectroscopy. NMR in Biomedicine, 1988, 1, 1-10.	2.8	166
18	Correction of intensity nonuniformity in MR images of any orientation. Magnetic Resonance Imaging, 1993, 11, 183-196.	1.8	150

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19	Apparent diffusion coefficient histograms may predict low-grade glioma subtype. NMR in Biomedicine, 2007, 20, 49-57.	2.8	141
20	Measuring blood volume and vascular transfer constant from dynamic, T2*-weighted contrast-enhanced MRI. Magnetic Resonance in Medicine, 2004, 51, 961-968.	3.0	140
21	ADC mapping of the human optic nerve: Increased resolution, coverage, and reliability with CSF-suppressed ZOOM-EPI. Magnetic Resonance in Medicine, 2002, 47, 24-31.	3.0	129
22	Volumes and growth rates of untreated adult low-grade gliomas indicate risk of early malignant transformation. European Journal of Radiology, 2009, 72, 54-64.	2.6	126
23	Assessment of antiangiogenic and antivascular therapeutics using MRI: recommendations for appropriate methodology for clinical trials. British Journal of Radiology, 2003, 76, S87-S91.	2.2	121
24	Osteogenic and Ewing Sarcomas: Estimation of Necrotic Fraction during Induction Chemotherapy with Dynamic Contrast-enhanced MR Imaging. Radiology, 2003, 228, 271-278.	7.3	119
25	Abnormalities of cerebral perfusion in multiple sclerosis. Journal of Neurology, Neurosurgery and Psychiatry, 2004, 75, 1288-1293.	1.9	115
26	The normal appearing grey matter in primary progressive multiple sclerosis. Journal of Neurology, 2003, 250, 67-74.	3.6	111
27	Quantitative magnetization transfer mapping of bound protons in multiple sclerosis. Magnetic Resonance in Medicine, 2003, 50, 83-91.	3.0	108
28	Fast, accurate, and precise mapping of the RF field in vivo using the 180° signal null. Magnetic Resonance in Medicine, 2007, 58, 622-630.	3.0	107
29	Magnetic resonance diffusion imaging of the human cervical spinal cord in vivo. Magnetic Resonance in Medicine, 1999, 41, 1269-1273.	3.0	103
30	Accurate multislice gradient echo T1 measurement in the presence of non-ideal RF pulse shape and RF field nonuniformity. Magnetic Resonance in Medicine, 2001, 45, 838-845.	3.0	101
31	A multicenter measurement of magnetization transfer ratio in normal white matter. Journal of Magnetic Resonance Imaging, 1999, 9, 441-446.	3.4	99
32	Low-Grade Gliomas: Six-month Tumor Growth Predicts Patient Outcome Better than Admission Tumor Volume, Relative Cerebral Blood Volume, and Apparent Diffusion Coefficient. Radiology, 2009, 253, 505-512.	7.3	95
33	Quantitative imaging biomarkers in neuro-oncology. Nature Reviews Clinical Oncology, 2009, 6, 445-454.	27.6	92
34	A chemical shift selective inversion recovery sequence for fat-suppressed MRI: Theory and experimental validation. Magnetic Resonance Imaging, 1993, 11, 341-355.	1.8	91
35	Measuring the human retinal oxygenation response to a hyperoxic challenge using MRI: Eliminating blinking artifacts and demonstrating proof of concept. Magnetic Resonance in Medicine, 2001, 46, 412-416.	3.0	91
36	Simulation-based comparison of two approaches frequently used for dynamic contrast-enhanced MRI. European Radiology, 2010, 20, 432-442.	4.5	73

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37	Increasing normal-appearing grey and white matter magnetisation transfer ratio abnormality in early relapsing-remitting multiple sclerosis. <i>Journal of Neurology</i> , 2005, 252, 1037-1044.	3.6	72
38	Strategies for optimizing MRI techniques aimed at monitoring disease activity in multiple sclerosis treatment trials. <i>Journal of Neurology</i> , 1997, 244, 76-84.	3.6	70
39	Measurement of capillary permeability from the Gd enhancement curve: A comparison of bolus and constant infusion injection methods. <i>Magnetic Resonance Imaging</i> , 1994, 12, 81-91.	1.8	65
40	Correlation of apparent myelin measures obtained in multiple sclerosis patients and controls from magnetization transfer and multicompartamental T2 analysis. <i>Magnetic Resonance in Medicine</i> , 2005, 53, 1415-1422.	3.0	64
41	Three-dimensional quantitative magnetisation transfer imaging of the human brain. <i>NeuroImage</i> , 2005, 27, 436-441.	4.2	62
42	Assessment and correction of B1-induced errors in magnetization transfer ratio measurements. <i>Magnetic Resonance in Medicine</i> , 2005, 53, 134-140.	3.0	57
43	A simple correction for B1 field errors in magnetization transfer ratio measurements. <i>Magnetic Resonance Imaging</i> , 2006, 24, 255-263.	1.8	55
44	Reproducibility of brain ADC histograms. <i>European Radiology</i> , 2004, 14, 425-430.	4.5	52
45	Investigation of human skeletal muscle structure and composition by X-ray computerised tomography. <i>European Journal of Clinical Investigation</i> , 1983, 13, 465-468.	3.4	51
46	Quantification of subtle blood-brain barrier disruption in non-enhancing lesions in multiple sclerosis: a study of disease and lesion subtypes. <i>Multiple Sclerosis Journal</i> , 2007, 13, 884-894.	3.0	51
47	Macroscopic and microscopic assessments of disease burden by MRI in multiple sclerosis: Relationship to clinical parameters. <i>Journal of Magnetic Resonance Imaging</i> , 1996, 6, 580-584.	3.4	50
48	Correction for variations in MRI scanner sensitivity in brain studies with histogram matching. <i>Magnetic Resonance in Medicine</i> , 1998, 39, 322-327.	3.0	50
49	Pharmacokinetic Analysis of Neoplasms Using Contrast-enhanced Dynamic Magnetic Resonance Imaging. <i>Topics in Magnetic Resonance Imaging</i> , 1999, 10, 130-142.	1.2	50
50	Quantitative Magnetization Transfer Imaging in Alzheimer Disease. <i>Radiology</i> , 2007, 244, 832-837.	7.3	49
51	The importance of AIF ROI selection in DCE-MRI renography: Reproducibility and variability of renal perfusion and filtration. <i>European Journal of Radiology</i> , 2010, 74, e154-e160.	2.6	48
52	Imaging cadavers: Cold FLAIR and noninvasive brain thermometry using CSF diffusion. <i>Magnetic Resonance in Medicine</i> , 2008, 59, 190-195.	3.0	46
53	Estimation of the macromolecular proton fraction and bound pool T2 in multiple sclerosis. <i>Multiple Sclerosis Journal</i> , 2004, 10, 607-613.	3.0	45
54	Diffusion tensor imaging of early relapsing-remitting multiple sclerosis with histogram analysis using automated segmentation and brain volume correction. <i>Multiple Sclerosis Journal</i> , 2004, 10, 9-15.	3.0	45

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55	Noninvasive measurement of molar concentrations of ^{31}P metabolites in vivo, using surface coil NMR spectroscopy. <i>Magnetic Resonance in Medicine</i> , 1988, 6, 84-86.	3.0	42
56	Structural and resting-state MRI detects regional brain differences in young and mid-age healthy APOE $\epsilon\epsilon$ 4 carriers compared with non-APOE $\epsilon\epsilon$ 4 carriers. <i>NMR in Biomedicine</i> , 2016, 29, 614-624.	2.8	42
57	Direct in vivo measurement of absolute metabolite concentrations using ^{31}P nuclear magnetic resonance spectroscopy. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 1986, 886, 399-405.	4.1	41
58	Normal-appearing grey and white matter T1 abnormality in early relapsing-remitting multiple sclerosis: a longitudinal study. <i>Multiple Sclerosis Journal</i> , 2007, 13, 169-177.	3.0	41
59	Characterization of white matter damage in animal models of multiple sclerosis by magnetization transfer ratio and quantitative mapping of the apparent bound proton fraction f^* . <i>Multiple Sclerosis Journal</i> , 2009, 15, 16-27.	3.0	41
60	Precise measurement of renal filtration and vascular parameters using a two-compartment model for dynamic contrast-enhanced MRI of the kidney gives realistic normal values. <i>European Radiology</i> , 2012, 22, 1320-1330.	4.5	41
61	Lesion volume measurement in multiple sclerosis: How important is accurate repositioning?. <i>Journal of Magnetic Resonance Imaging</i> , 1996, 6, 705-713.	3.4	40
62	Sources of variation in multi-centre brain MTR histogram studies: body-coil transmission eliminates inter-centre differences. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2006, 19, 209-222.	2.0	38
63	Systemic Lupus Erythematosus: Diagnostic Application of Magnetization Transfer Ratio Histograms in Patients with Neuropsychiatric Symptoms—Initial Results. <i>Radiology</i> , 2002, 222, 722-728.	7.3	35
64	Measuring the Effect of Pars Plana Vitrectomy on Vitreous Oxygenation Using Magnetic Resonance Imaging. , 2013, 54, 2028.		34
65	Preliminary magnetic resonance study of the macromolecular proton fraction in white matter: a potential marker of myelin?. <i>Multiple Sclerosis Journal</i> , 2003, 9, 246-249.	3.0	32
66	A standardised method for measuring magnetisation transfer ratio on MR imagers from different manufacturers—the EuroMT sequence. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2005, 18, 76-80.	2.0	30
67	Quantitative analysis of whole-tumor Gd enhancement histograms predicts malignant transformation in low-grade gliomas. <i>Journal of Magnetic Resonance Imaging</i> , 2007, 25, 208-214.	3.4	30
68	Toward clinical application of manganese-enhanced MRI of retinal function. <i>Brain Research Bulletin</i> , 2010, 81, 333-338.	3.0	30
69	Improvements to the quality of MRI cluster analysis. <i>Magnetic Resonance Imaging</i> , 1994, 12, 1191-1204.	1.8	29
70	Optimal detection of blood-brain barrier defects with Gd-DTPA MRI—The influences of delayed imaging and optimised repetition time. <i>Magnetic Resonance Imaging</i> , 1996, 14, 373-380.	1.8	29
71	Unbiased segmentation of diffusion-weighted magnetic resonance images of the brain using iterative clustering. <i>Magnetic Resonance Imaging</i> , 2005, 23, 877-885.	1.8	29
72	Dynamic contrast enhanced MRI in patients with diabetic macular edema: initial results. <i>Experimental Eye Research</i> , 2005, 81, 97-102.	2.6	26

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73	Effect of vitreous fluidity on the measurement of blood-retinal barrier permeability using contrast-enhanced MRI. Magnetic Resonance in Medicine, 1994, 31, 61-66.	3.0	25
74	T1: The Longitudinal Relaxation Time. , 0, , 111-141.		24
75	T1-W DCE-MRI:T1-Weighted Dynamic Contrast-Enhanced MRI. , 0, , 341-364.		24
76	Correction of Nonuniformity in Images of the Spine and Optic Nerve from Fixed Receive-Only Surface Coils at 1.5 T. Journal of Computer Assisted Tomography, 1994, 18, 997-1003.	0.9	22
77	MRI of carriers of the apolipoprotein E e4 allele“evidence for structural differences in normal“appearing brain tissue in e4+ relative to e4“ young adults. NMR in Biomedicine, 2013, 26, 674-682.	2.8	22
78	Improved Reduction of Motion Artifacts in Diffusion Imaging Using Navigator Echoes and Velocity Compensation. Journal of Magnetic Resonance, 2000, 142, 358-363.	2.1	21
79	Functional MRI. , 0, , 413-453.		19
80	T2: The Transverse Relaxation Time. , 0, , 143-201.		18
81	Quantitative magnetisation transfer imaging in glioma: preliminary results. NMR in Biomedicine, 2011, 24, 492-498.	2.8	18
82	Another approach to protons with constricted mobility in white matter: pilot studies using wideline and high-resolution NMR spectroscopy. Magnetic Resonance Imaging, 2003, 21, 1039-1043.	1.8	16
83	Edited31P brain spectra using maximum entropy data processing. Magnetic Resonance in Medicine, 1987, 4, 385-392.	3.0	15
84	DCE-MRI: acquisition and analysis techniques. , 2013, , 58-74.		15
85	Volunteer Studies Replacing Animal Experiments in Brain Research. ATLA Alternatives To Laboratory Animals, 2000, 28, 315-331.	1.0	11
86	D: The Diffusion of Water. , 0, , 203-256.		11
87	Novel MR image contrast mechanisms in epilepsy. Magnetic Resonance Imaging, 1995, 13, 1099-1106.	1.8	10
88	Principal component and linear discriminant analysis of T1 histograms of white and grey matter in multiple sclerosis. Magnetic Resonance Imaging, 2006, 24, 793-800.	1.8	10
89	Shape and Texture. , 0, , 559-579.		9
90	The Bland“Altman analysis: Does it have a role in assessing radiation dosimeter performance relative to an established standard?. Radiation Measurements, 2010, 45, 810-815.	1.4	9

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91	1H-MRS internal thermometry in test-objects (phantoms) to within 0.1â€‰%K for quality assurance in long-term quantitative MR studies. NMR in Biomedicine, 2006, 19, 560-565.	2.8	8
92	Nasal Orientation Device to Control Head Movement during CT and MR Studies. Journal of Computer Assisted Tomography, 1990, 14, 163-164.	0.9	7
93	<title>Segmentation of neuroanatomy in magnetic resonance images</title> . , 1992, , .		7
94	Removing spikes caused by quantization noise from high-resolution histograms. Magnetic Resonance in Medicine, 2003, 50, 649-653.	3.0	6
95	T2- and T2*-W DCE-MRI: Blood Perfusion and Volume Estimation using Bolus Tracking. , 0, , 365-412.		6
96	Comprehensive brain analysis with automated highâ€‰resolution magnetization transfer measurements. Journal of Magnetic Resonance Imaging, 2012, 35, 309-317.	3.4	6
97	Biodanza for kindergarten children (TANZPRO-Biodanza): reporting on changes of cortisol levels and emotion recognition. Body, Movement and Dance in Psychotherapy, 2016, 11, 75-89.	0.5	5
98	The noninvasive measurement of absolute metabolite concentrations in vivo using surface-coil NMR spectroscopy. Journal of Magnetic Resonance, 1988, 80, 84-95.	0.5	4
99	A method for visualization of MRI partial volume regionsâ€”PAIR (PArtial volume sensitised Inversion) Tj ETQq1 1 0.784314 rgBT /Ove	1.8	4
100	ASL: Blood Perfusion Measurements Using Arterial Spin Labelling. , 0, , 455-473.		4
101	Object strength â€” an accurate measure for small objects that is insensitive to partial volume effects. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2005, 18, 162-169.	2.0	4
102	Spatial Registration of Images. , 0, , 501-531.		3
103	Volume and Atrophy. , 0, , 533-558.		2
104	Biology: The Significance of MR Parameters in Multiple Sclerosis. , 0, , 475-499.		1
105	Towards an Automatic Lesion Segmentation Method for Dual Echo Magnetic Resonance Images Using an Ensemble of Neural Networks. Lecture Notes in Computer Science, 2003, , 148-157.	1.3	1
106	Appendix I: Greek Alphabet for Scientific Use. , 0, , 619-619.		0
107	PATH59 Prognostic factors in untreated adult low-grade gliomas. Journal of Neurology, Neurosurgery and Psychiatry, 2010, 81, e23-e23.	1.9	0