David Atkinson

List of Publications by Year
in descending order

213 papers	5,805 citations	81743 39 h-index	106150 65 g-index
222 all docs	222 docs citations	222 times ranked	6866 citing authors

#	Article	IF	Citations
1	Planning of gamma knife radiosurgery (GKR) for brain arteriovenous malformations using triple magnetic resonance angiography (triple-MRA). British Journal of Neurosurgery, 2022, 36, 217-227.	0.4	3
2	Detection Efficiency Modeling and Joint Activity and Attenuation Reconstruction in Non-TOF 3-D PET From Multiple-Energy Window Data. IEEE Transactions on Radiation and Plasma Medical Sciences, 2022, 6, 87-97.	2.7	1
3	Histo-MRI map study protocol: a prospective cohort study mapping MRI to histology for biomarker validation and prediction of prostate cancer. BMJ Open, 2022, 12, e059847.	0.8	0
4	Magnetic resonance imaging assessed enteric motility and luminal content analysis in patients with severe bloating and visible distension. Neurogastroenterology and Motility, 2022, , e14381.	1.6	3
5	Phase 0 study of vandetanib-eluting radiopaque embolics as a pre-operative embolization treatment in patients with resectable liver malignancies. Journal of Vascular and Interventional Radiology, 2022, , .	0.2	0
6	Cross-Modality Image Registration Using a Training-Time Privileged Third Modality. IEEE Transactions on Medical Imaging, 2022, 41, 3421-3431.	5.4	0
7	Are Dynamic Arterial Spin-Labeling MRA and Time-Resolved Contrast-Enhanced MRA Suited for Confirmation of Obliteration following Gamma Knife Radiosurgery of Brain Arteriovenous Malformations?. American Journal of Neuroradiology, 2021, 42, 671-678.	1.2	11
8	A Multi-Channel Uncertainty-Aware Multi-Resolution Network for MR to CT Synthesis. Applied Sciences (Switzerland), 2021, 11, 1667.	1.3	7
9	Evaluation of PSA and PSA Density in a Multiparametric Magnetic Resonance Imaging-Directed Diagnostic Pathway for Suspected Prostate Cancer: The INNOVATE Trial. Cancers, 2021, 13, 1985.	1.7	10
10	Standardisation of prostate multiparametric MRI across a hospital network: a London experience. Insights Into Imaging, 2021, 12, 52.	1.6	11
11	Cardiac-induced liver deformation as a measure of liver stiffness using dynamic imaging without magnetization tagging—preclinical proof-of-concept, clinical translation, reproducibility and feasibility in patients with cirrhosis. Abdominal Radiology, 2021, 46, 4660-4670.	1.0	4
12	Artificial Intelligence Compared to Radiologists for the Initial Diagnosis of Prostate Cancer on Magnetic Resonance Imaging: A Systematic Review and Recommendations for Future Studies. Cancers, 2021, 13, 3318.	1.7	32
13	Imitation learning for improved 3D PET/MR attenuation correction. Medical Image Analysis, 2021, 71, 102079.	7.0	9
14	Utility of diffusion MRI characteristics of cervical lymph nodes as disease classifier between patients with head and neck squamous cell carcinoma and healthy volunteers. NMR in Biomedicine, 2021, 34, e4587.	1.6	0
15	O59…MRI methods to define colonic function in health and constipation. , 2021, , .		0
16	Super-resolution Reconstruction MRI Application in Fetal Neck Masses and Congenital High Airway Obstruction Syndrome. OTO Open, 2021, 5, 2473974X211055372.	0.6	7
17	Feasibility of Data-Driven, Model-Free Quantitative MRI Protocol Design: Application to Brain and Prostate Diffusion-Relaxation Imaging. Frontiers in Physics, 2021, 9, .	1.0	2
18	Quantitative Magnetic Resonance Imaging in Perianal Crohn's Disease at 1.5 and 3.0 T: A Feasibility Study. Diagnostics, 2021, 11, 2135.	1.3	2

#	Article	IF	Citations
19	Joint B0 and image estimation integrated with model based reconstruction for field map update and distortion correction in prostate diffusion MRI. Magnetic Resonance Imaging, 2020, 65, 90-99.	1.0	4
20	SIRF: Synergistic Image Reconstruction Framework. Computer Physics Communications, 2020, 249, 107087.	3.0	35
21	Improved fetal blood oxygenation and placental estimated measurements of diffusionâ€weighted MRI using dataâ€driven Bayesian modeling. Magnetic Resonance in Medicine, 2020, 83, 2160-2172.	1.9	15
22	PET/MRI attenuation estimation in the lung: A review of past, present, and potential techniques. Medical Physics, 2020, 47, 790-811.	1.6	19
23	Arterial Spin Labeling MRI in Carotid Stenosis: Arterial Transit Artifacts May Predict Symptoms. Radiology, 2020, 297, 652-660.	3.6	26
24	The MRI colonic function test: Reproducibility of the Macrogol stimulus challenge. Neurogastroenterology and Motility, 2020, 32, e13942.	1.6	3
25	Noninvasive diffusion magnetic resonance imaging of brain tumour cell size for the early detection of therapeutic response. Scientific Reports, 2020, 10, 9223.	1.6	29
26	Translating pHâ€sensitive PROgressive saturation for QUantifying Exchange rates using Saturation Times (PROâ€QUEST) MRI to a 3T clinical scanner. Magnetic Resonance in Medicine, 2020, 84, 1734-1746.	1.9	1
27	Joint Activity and Attenuation Reconstruction From Multiple Energy Window Data With Photopeak Scatter Re-Estimation in Non-TOF 3-D PET. IEEE Transactions on Radiation and Plasma Medical Sciences, 2020, 4, 410-421.	2.7	12
28	Flexible numerical simulation framework for dynamic PET-MR data. Physics in Medicine and Biology, 2020, 65, 145003.	1.6	3
29	Uncertainty-Aware Multi-resolution Whole-Body MR to CT Synthesis. Lecture Notes in Computer Science, 2020, , 110-119.	1.0	1
30	Characterization of B0-field fluctuations in prostate MRI. Physics in Medicine and Biology, 2020, 65, 21NT01.	1.6	1
31	Normalisation Factor Estimation in non-TOF 3D PET from Multiple-Energy Window Data. , 2020, , .		0
32	Golden ratio stack of spirals for flexible angiographic imaging: Proof of concept in congenital heart disease. Magnetic Resonance in Medicine, 2019, 81, 90-101.	1.9	2
33	Superâ€resolution for upper abdominal MRI: Acquisition and postâ€processing protocol optimization using brain MRI control data and expert reader validation. Magnetic Resonance in Medicine, 2019, 82, 1905-1919.	1.9	12
34	Hyperpolarised ¹³ï»¿C MRI: a new horizon for non-invasive diagnosis of aggressive breast cancer. BJR|case Reports, 2019, 5, 20190026.	0.1	7
35	Machine learning classifiers can predict Gleason pattern 4 prostate cancer with greater accuracy than experienced radiologists. European Radiology, 2019, 29, 4754-4764.	2.3	55
36	Cortical cerebral blood flow in ageing: effects of haematocrit, sex, ethnicity and diabetes. European Radiology, 2019, 29, 5549-5558.	2.3	22

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37	Spatio‐temporal motility MRI analysis of the stomach and colon. Neurogastroenterology and Motility, 2019, 31, e13557.	1.6	19
38	First-in-human *in vivo* non-invasive assessment of intra-tumoral metabolic heterogeneity in renal cell carcinoma. BJR|case Reports, 2019, 5, 20190003.	0.1	28
39	VERDICT MRI for Prostate Cancer: Intracellular Volume Fraction versus Apparent Diffusion Coefficient. Radiology, 2019, 291, 391-397.	3.6	52
40	Optimization and repeatability of multipool chemical exchange saturation transfer MRI of the prostate at 3.0‰T. Journal of Magnetic Resonance Imaging, 2019, 50, 1238-1250.	1.9	14
41	Joint reconstruction of activity and attenuation in non-TOF PET using a synergistic prior to enforce structural similarities. , 2019, , .		0
42	Simplified Luminal Water Imaging for the Detection of Prostate Cancer From Multiecho T_2 MR Images. Journal of Magnetic Resonance Imaging, 2019, 50, 910-917.	1.9	16
43	VERDICT‐AMICO: Ultrafast fitting algorithm for non‐invasive prostate microstructure characterization. NMR in Biomedicine, 2019, 32, e4019.	1.6	19
44	Multi-parametric MRI zone-specific diagnostic model performance compared with experienced radiologists for detection of prostate cancer. European Radiology, 2019, 29, 4150-4159.	2.3	8
45	Model‐based reconstruction framework for correction of signal pile‐up and geometric distortions in prostate diffusion MRI. Magnetic Resonance in Medicine, 2019, 81, 1979-1992.	1.9	10
46	Separating fetal and maternal placenta circulations using multiparametric MRI. Magnetic Resonance in Medicine, 2019, 81, 350-361.	1.9	59
47	Improved MR to CT Synthesis for PET/MR Attenuation Correction Using Imitation Learning. Lecture Notes in Computer Science, 2019, , 13-21.	1.0	9
48	Improved Placental Parameter Estimation Using Data-Driven Bayesian Modelling. Lecture Notes in Computer Science, 2019, , 609-616.	1.0	0
49	Quantification of tumour microstructure in low and high-grade brain tumours using VERDICT MRI: an initial feasibility study. Neuro-Oncology, 2018, 20, i16-i16.	0.6	2
50	Dynamic MRI for bowel motility imaging—how fast and how long?. British Journal of Radiology, 2018, 91, 20170845.	1.0	17
51	Semiautomatic Assessment of the Terminal Ileum and Colon in Patients with Crohn Disease Using MRI (the VIGOR++ Project). Academic Radiology, 2018, 25, 1038-1045.	1.3	14
52	NiftyPET: a High-throughput Software Platform for High Quantitative Accuracy and Precision PET Imaging and Analysis. Neuroinformatics, 2018, 16, 95-115.	1.5	40
53	Clinical Impact of Respiratory Motion Correction in Simultaneous PET/MR, Using a Joint PET/MR Predictive Motion Model. Journal of Nuclear Medicine, 2018, 59, 1467-1473.	2.8	16
54	Bullseye's representation of cerebral white matter hyperintensities. Journal of Neuroradiology, 2018, 45, 114-122.	0.6	25

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55	Low frequency oscillating gradient spin-echo sequences improve sensitivity to axon diameter: An experimental study in viable nerve tissue. NeuroImage, 2018, 182, 314-328.	2.1	31
56	Non-invasive kinetic modelling of PET tracers with radiometabolites using a constrained simultaneous estimation method: evaluation with 11C-SB201745. EJNMMI Research, 2018, 8, 58.	1.1	17
57	Cerebral Blood Flow and Cognitive Functioning in a Community-Based, Multi-Ethnic Cohort: The SABRE Study. Frontiers in Aging Neuroscience, 2018, 10, 279.	1.7	61
58	Cardiovascular Risk Factors and White Matter Hyperintensities: Difference in Susceptibility in South Asians Compared With Europeans. Journal of the American Heart Association, 2018, 7, e010533.	1.6	26
59	Maximum-likelihood estimation of emission and attenuation images in 3D PET from multiple energy window measurements. , 2018, , .		6
60	VERDICT Prostate Parameter Estimation with AMICO. Mathematics and Visualization, 2018, , 229-241.	0.4	0
61	Tu1971 - Assessment of Colonic Motility Using Magnetic Resonance Imaging: Reproducibility of a Macrogol Challenge. Gastroenterology, 2018, 154, S-1070.	0.6	0
62	Relationship between MRI quantified small bowel motility and abdominal symptoms in Crohn's disease patients—a validation study. British Journal of Radiology, 2018, 91, 20170914.	1.0	12
63	Quantified Terminal Ileal Motility during MR Enterography as a Biomarker of Crohn Disease Activity: Prospective Multi-Institution Study. Radiology, 2018, 289, 428-435.	3.6	42
64	Deep Boosted Regression for MR to CT Synthesis. Lecture Notes in Computer Science, 2018, , 61-70.	1.0	7
65	MRI Measurement of Placental Perfusion and Fetal Blood Oxygen Saturation in Normal Pregnancy and Placental Insufficiency. Lecture Notes in Computer Science, 2018, , 913-920.	1.0	3
66	Estimation of an image derived input function with MR-defined carotid arteries in FDG-PET human studies using a novel partial volume correction method. Journal of Cerebral Blood Flow and Metabolism, 2017, 37, 1398-1409.	2.4	48
67	Feasibility of vocal fold abduction and adduction assessment using cine-MRI. European Radiology, 2017, 27, 598-606.	2.3	18
68	Highly efficient nonrigid motion–corrected 3D whole–heart coronary vessel wall imaging. Magnetic Resonance in Medicine, 2017, 77, 1894-1908.	1.9	85
69	Direct Parametric Reconstruction With Joint Motion Estimation/Correction for Dynamic Brain PET Data. IEEE Transactions on Medical Imaging, 2017, 36, 203-213.	5.4	25
70	A comparison of Bayesian and non-linear regression methods for robust estimation of pharmacokinetics in DCE-MRI and how it affects cancer diagnosis. Computerized Medical Imaging and Graphics, 2017, 56, 1-10.	3.5	18
71	Improved hepatic arterial fraction estimation using cardiac output correction of arterial input functions for liver DCE MRI. Physics in Medicine and Biology, 2017, 62, 1533-1546.	1.6	6
72	Sensitivity of OGSE ActiveAx to Microstructural Dimensions on a Clinical Scanner. Mathematics and Visualization, 2017, , 85-97.	0.4	1

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73	A magnetic resonance imaging study of gastric motor function in patients with dyspepsia associated with Ehlers–Danlos Syndrome–Hypermobility Type: A feasibility study. Neurogastroenterology and Motility, 2017, 29, e13090.	1.6	22
74	Evaluation of a direct motion estimation/correction method in respiratory-gated PET/MRI with motion-adjusted attenuation. Medical Physics, 2017, 44, 2379-2390.	1.6	11
75	ISMRM Raw data format: A proposed standard for MRI raw datasets. Magnetic Resonance in Medicine, 2017, 77, 411-421.	1.9	59
76	Diffusion-weighted imaging for evaluating inflammatory activity in Crohn's disease: comparison with histopathology, conventional MRI activity scores, and faecal calprotectin. Abdominal Radiology, 2017, 42, 115-123.	1.0	35
77	Potential benefits of incorporating energy information when estimating attenuation from PET data. , 2017, , .		10
78	A Probabilistic Method for Estimation of Bowel Wall Thickness in MR Colonography. PLoS ONE, 2017, 12, e0168317.	1.1	3
79	SIRF: Synergistic Image Reconstruction Framework. , 2017, , .		4
80	Point-Spread-Function-Aware Slice-to-Volume Registration: Application to Upper Abdominal MRI Super-Resolution. Lecture Notes in Computer Science, 2017, , 3-13.	1.0	5
81	Comparative quantitative assessment of global small bowel motility using magnetic resonance imaging in chronic intestinal pseudo–obstruction and healthy controls. Neurogastroenterology and Motility, 2016, 28, 376-383.	1.6	49
82	Aberrant Motility in Unaffected Small Bowel is Linked to Inflammatory Burden and Patient Symptoms in Crohn¼s Disease. Inflammatory Bowel Diseases, 2016, 22, 424-432.	0.9	24
83	Association of the apparent diffusion coefficient with maturity in adolescent sacroiliac joints. Journal of Magnetic Resonance Imaging, 2016, 44, 556-564.	1.9	21
84	Colon wall motility: comparison of novel quantitative semi–automatic measurements using cine <scp>MRI</scp>. Neurogastroenterology and Motility, 2016, 28, 327-335.	1.6	21
85	Diffusion-weighted imaging is a sensitive biomarker of response to biologic therapy in enthesitis-related arthritis. Rheumatology, 2016, 56, kew429.	0.9	14
86	Rapid processing of PET list-mode data for efficient uncertainty estimation and data analysis. Physics in Medicine and Biology, 2016, 61, N322-N336.	1.6	18
87	NiftyFit: a Software Package for Multi-parametric Model-Fitting of 4D Magnetic Resonance Imaging Data. Neuroinformatics, 2016, 14, 319-337.	1.5	29
88	Spin echo versus stimulated echo diffusion tensor imaging of the in vivo human heart. Magnetic Resonance in Medicine, 2016, 76, 862-872.	1.9	53
89	Colonic response to laxative ingestion as assessed by <scp>MRI</scp> differs in constipated irritable bowel syndrome compared to functional constipation. Neurogastroenterology and Motility, 2016, 28, 861-870.	1.6	49
90	Accelerated motion corrected three–dimensional abdominal MRI using total variation regularized SENSE reconstruction. Magnetic Resonance in Medicine, 2016, 75, 1484-1498.	1.9	69

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91	Using the robust principal component analysis algorithm to remove RF spike artifacts from MR images. Magnetic Resonance in Medicine, 2016, 75, 2517-2525.	1.9	15
92	INNOVATE: A prospective cohort study combining serum and urinary biomarkers with novel diffusion-weighted magnetic resonance imaging for the prediction and characterization of prostate cancer. BMC Cancer, 2016, 16, 816.	1.1	40
93	Estimation of contrast agent bolus arrival delays for improved reproducibility of liver DCE MRI. Physics in Medicine and Biology, 2016, 61, 6905-6918.	1.6	12
94	Joint PET-MR respiratory motion models for clinical PET motion correction. Physics in Medicine and Biology, 2016, 61, 6515-6530.	1.6	27
95	Second‐order motion‐compensated spin echo diffusion tensor imaging of the human heart. Magnetic Resonance in Medicine, 2016, 75, 1669-1676.	1.9	90
96	PET Reconstruction With an Anatomical MRI Prior Using Parallel Level Sets. IEEE Transactions on Medical Imaging, 2016, 35, 2189-2199.	5.4	82
97	Maximum-Likelihood Joint Image Reconstruction/Motion Estimation in Attenuation-Corrected Respiratory Gated PET/CT Using a Single Attenuation Map. IEEE Transactions on Medical Imaging, 2016, 35, 217-228.	5.4	41
98	Improved Parameter-Estimation With MRI-Constrained PET Kinetic Modeling: A Simulation Study. IEEE Transactions on Nuclear Science, 2016, 63, 2464-2470.	1.2	2
99	Maximum-likelihood joint image reconstruction and motion estimation with misaligned attenuation in TOF-PET/CT. Physics in Medicine and Biology, 2016, 61, L11-L19.	1.6	14
100	A diffusion-based quantification technique for assessment of sacroiliitis in adolescents with enthesitis-related arthritis. British Journal of Radiology, 2016, 89, 20150775.	1.0	36
101	MR Imaging‐Guided Partial Volume Correction of PET Data in PET/MR Imaging. PET Clinics, 2016, 11, 161-177.	1.5	32
102	Rapid workflow of mMR PET list-mode data processing using CUDA. EJNMMI Physics, 2015, 2, A42.	1.3	0
103	Nonrigid registration improves MRI T_2 quantification in heart transplant patient follow-up. Journal of Magnetic Resonance Imaging, 2015, 42, 168-174.	1.9	10
104	Manifold learning based ECG‐free free‐breathing cardiac CINE MRI. Journal of Magnetic Resonance Imaging, 2015, 41, 1521-1527.	1.9	35
105	Assessment of cardiac time intervals using high temporal resolution real‐time spiral phase contrast with UNFOLDed‐SENSE. Magnetic Resonance in Medicine, 2015, 73, 749-756.	1.9	11
106	Practical PET Respiratory Motion Correction in Clinical PET/MR. Journal of Nuclear Medicine, 2015, 56, 890-896.	2.8	76
107	Multi-contrast attenuation map synthesis for PET/MR scanners: assessment on FDG and Florbetapir PET tracers. European Journal of Nuclear Medicine and Molecular Imaging, 2015, 42, 1447-1458.	3.3	35
108	Incorporation of MRI-AIF Information For Improved Kinetic Modelling of Dynamic PET Data. IEEE Transactions on Nuclear Science, 2015, 62, 612-618.	1.2	4

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109	Whole left ventricular functional assessment from two minutes free breathing multi-slice CINE acquisition. Physics in Medicine and Biology, 2015, 60, N93-N107.	1.6	11
110	Joint reconstruction of PET-MRI by exploiting structural similarity. Inverse Problems, 2015, 31, 015001.	1.0	106
111	A reference dataset of in-vivo human left-ventricular fiber architecture in systole and diastole. Journal of Cardiovascular Magnetic Resonance, 2015, 17, Q112.	1.6	1
112	Zone-specific logistic regression models improve classification of prostate cancer on multi-parametric MRI. European Radiology, 2015, 25, 2727-2737.	2.3	29
113	Microstructural Characterization of Normal and Malignant Human Prostate Tissue With Vascular, Extracellular, and Restricted Diffusion for Cytometry in Tumours Magnetic Resonance Imaging. Investigative Radiology, 2015, 50, 218-227.	3.5	137
114	Practical PET respiratory motion correction in clinical simultaneous PET/MR. , 2015, , .		3
115	Improved parameter-estimation with combined PET-MRI kinetic modelling. EJNMMI Physics, 2015, 2, A25.	1.3	2
116	CT synthesis in the head & neck region for PET/MR attenuation correction: an iterative multi-atlas approach. EJNMMI Physics, 2015, 2, A31.	1.3	7
117	Logistic regression model for diagnosis of transition zone prostate cancer on multi-parametric MRI. European Radiology, 2015, 25, 523-532.	2.3	40
118	Detail-Preserving PET Reconstruction with Sparse Image Representation and Anatomical Priors. Lecture Notes in Computer Science, 2015, 24, 540-551.	1.0	12
119	Robust CT Synthesis for Radiotherapy Planning: Application to the Head and Neck Region. Lecture Notes in Computer Science, 2015, , 476-484.	1.0	20
120	Measuring Cortical Neurite-Dispersion and Perfusion in Preterm-Born Adolescents Using Multi-modal MRI. Lecture Notes in Computer Science, 2015, , 72-79.	1.0	1
121	Subject-specific Models for the Analysis of Pathological FDG PET Data. Lecture Notes in Computer Science, 2015, , 651-658.	1.0	1
122	Dual-Phase Cardiac Diffusion Tensor Imaging with Strain Correction. PLoS ONE, 2014, 9, e107159.	1.1	72
123	Low-rank and (X-F)-space sparsity via fast composite splitting for accelerated dynamic MR imaging. , 2014, , .		0
124	Multi-modal pharmacokinetic modelling for DCE-MRI: using diffusion weighted imaging to constrain the local arterial input function. Proceedings of SPIE, 2014, , .	0.8	0
125	Compressive manifold learning: Estimating one-dimensional respiratory motion directly from undersampled k-space data. Magnetic Resonance in Medicine, 2014, 72, 1130-1140.	1.9	15
126	Noise estimation from averaged diffusion weighted images: Can unbiased quantitative decay parameters assist cancer evaluation?. Magnetic Resonance in Medicine, 2014, 71, 2105-2117.	1.9	25

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127	Highâ€resolution diffusion tensor imaging of the human kidneys using a freeâ€breathing, multiâ€slice, targeted field of view approach. NMR in Biomedicine, 2014, 27, 1300-1312.	1.6	21
128	Dual registration of abdominal motion for motility assessment in free-breathing data sets acquired using dynamic MRI. Physics in Medicine and Biology, 2014, 59, 4603-4619.	1.6	41
129	Dynamic MR Image Reconstructionâ€"Separation From Undersampled (${f k},t$)-Space via Low-Rank Plus Sparse Prior. IEEE Transactions on Medical Imaging, 2014, 33, 1689-1701.	5.4	106
130	148 Quantitative Assessment of Global Small Bowel Motility in Chronic Intestinal Pseudo-Obstruction and Controls: A Preliminary Study. Gastroenterology, 2014, 146, S-41.	0.6	1
131	Respiratory motion correction in dynamic MRI using robust data decomposition registration â€" Application to DCE-MRI. Medical Image Analysis, 2014, 18, 301-313.	7.0	109
132	Attenuation Correction Synthesis for Hybrid PET-MR Scanners: Application to Brain Studies. IEEE Transactions on Medical Imaging, 2014, 33, 2332-2341.	5.4	311
133	The challenge of segmental small bowel motility quantitation using MR enterography. British Journal of Radiology, 2014, 87, 20140330.	1.0	18
134	Initial evaluation of a practical PET respiratory motion correction method in clinical simultaneous PET/MRI. EJNMMI Physics, 2014, 1, A40.	1.3	5
135	Incorporation of MRI-AIF information for improved kinetic modelling of dynamic PET data. EJNMMI Physics, 2014, 1, A43.	1.3	7
136	Image reconstruction of mMR PET data using the open source software STIR. EJNMMI Physics, 2014, 1, A44.	1.3	1
137	Attenuation correction synthesis for hybrid PET-MR scanners: validation for brain study applications. EJNMMI Physics, 2014, 1, A52.	1.3	3
138	Modelling the impact of injection time on the bolus shapes in PET-MRI AIF Conversion. EJNMMI Physics, 2014, 1, A54.	1.3	6
139	Direct parametric reconstruction from undersampled (k, t)-space data in dynamic contrast enhanced MRI. Medical Image Analysis, 2014, 18, 989-1001.	7.0	33
140	Characterization and correction of eddy-current artifacts in unipolar and bipolar diffusion sequences using magnetic field monitoring. Journal of Magnetic Resonance, 2014, 244, 74-84.	1.2	27
141	Selfâ€navigated tissue phase mapping using a goldenâ€angle spiral acquisitionâ€"proof of concept in patients with pulmonary hypertension. Magnetic Resonance in Medicine, 2014, 71, 145-155.	1.9	20
142	Exploiting an MRI derived arterial input function to improve the PET simultaneous estimation method: Validation of assumptions. , 2014, , .		2
143	An algorithm for direct 4-D PET image reconstruction/non-rigid motion estimation with limited MRI prior information. , 2014, , .		1
144	Effect of scatter correction when comparing attenuation maps: Application to brain PET/MR. , 2014, , .		10

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#	ARTICLE	IF	CITATIONS
145	High throughput CUDA implementation of accurate geometric modelling for iterative reconstruction of PET data. , 2014, , .		6
146	Joint reconstruction of PET-MRI by parallel level sets. , 2014, , .		4
147	Implementation of a Heterogeneous Image Reconstruction System for Clinical Magnetic Resonance. Lecture Notes in Computer Science, 2014, , 469-479.	1.0	1
148	Fast dynamic MRI via nuclear norm minimization and accelerated proximal gradient. , 2013, , .		2
149	In vivo myofibre architecture in the systemic right ventricle. European Heart Journal, 2013, 34, 3640-3640.	1.0	9
150	Motion corrected compressed sensing for freeâ€breathing dynamic cardiac MRI. Magnetic Resonance in Medicine, 2013, 70, 504-516.	1.9	142
151	Global Small Bowel Motility: Assessment with Dynamic MR Imaging. Radiology, 2013, 269, 443-450.	3.6	75
152	Small bowel strictures in Crohn's disease: a quantitative investigation of intestinal motility using <scp>MR</scp> enterography. Neurogastroenterology and Motility, 2013, 25, 967.	1.6	33
153	Direct parametric reconstruction from undersampled (k, t)-space data in dynamic contrast enhancement MRI. , 2013, , .		0
154	Joint reconstruction of low-rank and sparse components from undersampled (k, t)-space small bowel data. , 2013, , .		1
155	Attenuation Correction Synthesis for Hybrid PET-MR Scanners. Lecture Notes in Computer Science, 2013, 16, 147-154.	1.0	31
156	Respiratory Motion Correction in Dynamic-MRI: Application to Small Bowel Motility Quantification during Free Breathing. Lecture Notes in Computer Science, 2013, 16, 132-140.	1.0	4
157	Global Small Bowel Motility: Assessment with Dynamic MR Imaging. Radiology, 2013, 269, 443-450.	3.6	27
158	Establishing spatial correspondence for the analysis of images from highly deforming anatomy. , 2012, 2012, 3732-5.		0
159	Quantified terminal ileal motility during MR enterography as a potential biomarker of Crohnâ€™s disease activity: a preliminary study. European Radiology, 2012, 22, 2494-2501.	2.3	119
160	Continuous assessment of cardiac output during exercise using real time flow with fast GPU reconstruction. Journal of Cardiovascular Magnetic Resonance, 2012, 14, .	1.6	0
161	Real time flow with fast GPU reconstruction for continuous assessment of cardiac output. Journal of Cardiovascular Magnetic Resonance, 2012, 14, .	1.6	6
162	Realâ€time flow with fast GPU reconstruction for continuous assessment of cardiac output. Journal of Magnetic Resonance Imaging, 2012, 36, 1477-1482.	1.9	21

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163	Quantitative assessment of small bowel motility by nonrigid registration of dynamic MR images. Magnetic Resonance in Medicine, 2012, 68, 783-793.	1.9	97
164	High‐resolution slice‐selective Fourier velocity encoding in congenital heart disease using spiral SENSE with velocity unwrap. Magnetic Resonance in Medicine, 2012, 67, 1538-1546.	1.9	6
165	Automatic segmentation propagation of the aorta in real‐time phase contrast MRI using nonrigid registration. Journal of Magnetic Resonance Imaging, 2011, 33, 232-238.	1.9	43
166	Rapid Flow Assessment of Congenital Heart Disease with High-Spatiotemporal-Resolution Gated Spiral Phase-Contrast MR Imaging. Radiology, 2011, 260, 79-87.	3.6	49
167	Electrical impedance tomography in anisotropic media with known eigenvectors. Inverse Problems, 2011, 27, 065004.	1.0	12
168	A computationally efficient OMP-based compressed sensing reconstruction for dynamic MRI. Physics in Medicine and Biology, 2011, 56, N99-N114.	1.6	12
169	Assessing vascular response to exercise using a combination of real‐time spiral phase contrast MR and noninvasive blood pressure measurements. Journal of Magnetic Resonance Imaging, 2010, 31, 997-1003.	1.9	47
170	Model‐based reconstruction for cardiac cine MRI without ECG or breath holding. Magnetic Resonance in Medicine, 2010, 63, 1247-1257.	1.9	36
171	3D undersampled golden‐radial phase encoding for DCE‐MRA using inherently regularized iterative SENSE. Magnetic Resonance in Medicine, 2010, 64, 514-526.	1.9	47
172	Split‐acquisition real‐time CINE phase‐contrast MR flow measurements. Magnetic Resonance in Medicine, 2010, 64, 1664-1670.	1.9	10
173	Assessing the hemodynamic response to exercise - a novel MR approach. Journal of Cardiovascular Magnetic Resonance, 2010, 12, .	1.6	0
174	Data driven groupwise registration of diffusion weighted images. , 2010, , .		0
175	Image registration using uncertainty coefficients. , 2009, , .		5
176	Optimizing functional parameter accuracy for breath-hold DCE-MRI of liver tumours. Physics in Medicine and Biology, 2009, 54, 2197-2215.	1.6	28
177	Real-Time Reconstruction of Sensitivity Encoded Radial Magnetic Resonance Imaging Using a Graphics Processing Unit. IEEE Transactions on Medical Imaging, 2009, 28, 1974-1985.	5.4	55
178	Motion artifact correction in free‐breathing abdominal MRI using overlapping partial samples to recover image deformations. Magnetic Resonance in Medicine, 2009, 62, 440-449.	1.9	22
179	Whole‐heart imaging using undersampled radial phase encoding (RPE) and iterative sensitivity encoding (SENSE) reconstruction. Magnetic Resonance in Medicine, 2009, 62, 1331-1337.	1.9	25
180	On modelling of anisotropic viscoelasticity for soft tissue simulation: Numerical solution and GPU execution. Medical Image Analysis, 2009, 13, 234-244.	7.0	109

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