

David Atkinson

List of Publications by Year in descending order

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213
papers

5,805
citations

81743

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106150

65
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222
all docs

222
docs citations

222
times ranked

6866
citing authors

#	ARTICLE	IF	CITATIONS
1	Attenuation Correction Synthesis for Hybrid PET-MR Scanners: Application to Brain Studies. IEEE Transactions on Medical Imaging, 2014, 33, 2332-2341.	5.4	311
2	A study of the motion and deformation of the heart due to respiration. IEEE Transactions on Medical Imaging, 2002, 21, 1142-1150.	5.4	232
3	Motion corrected compressed sensing for free-breathing dynamic cardiac MRI. Magnetic Resonance in Medicine, 2013, 70, 504-516.	1.9	142
4	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
5	Quantified terminal ileal motility during MR enterography as a potential biomarker of Crohn's disease activity: a preliminary study. European Radiology, 2012, 22, 2494-2501.	2.3	119
6	Computationally efficient vascular input function models for quantitative kinetic modelling using DCE-MRI. Physics in Medicine and Biology, 2008, 53, 1225-1239.	1.6	114
7	On modelling of anisotropic viscoelasticity for soft tissue simulation: Numerical solution and GPU execution. Medical Image Analysis, 2009, 13, 234-244.	7.0	109
8	Respiratory motion correction in dynamic MRI using robust data decomposition registration – Application to DCE-MRI. Medical Image Analysis, 2014, 18, 301-313.	7.0	109
9	Automatic compensation of motion artifacts in MRI. Magnetic Resonance in Medicine, 1999, 41, 163-170.	1.9	108
10	Dynamic MR Image Reconstruction – Separation From Undersampled (k_t)-Space via Low-Rank Plus Sparse Prior. IEEE Transactions on Medical Imaging, 2014, 33, 1689-1701.	5.4	106
11	Joint reconstruction of PET-MRI by exploiting structural similarity. Inverse Problems, 2015, 31, 015001.	1.0	106
12	Use of anisotropic modelling in electrical impedance tomography; Description of method and preliminary assessment of utility in imaging brain function in the adult human head. NeuroImage, 2008, 43, 258-268.	2.1	105
13	Sampling and reconstruction effects due to motion in diffusion-weighted interleaved echo planar imaging. Magnetic Resonance in Medicine, 2000, 44, 101-109.	1.9	101
14	Quantitative assessment of small bowel motility by nonrigid registration of dynamic MR images. Magnetic Resonance in Medicine, 2012, 68, 783-793.	1.9	97
15	Second-order motion-compensated spin echo diffusion tensor imaging of the human heart. Magnetic Resonance in Medicine, 2016, 75, 1669-1676.	1.9	90
16	Highly efficient nonrigid motion-corrected 3D whole-heart coronary vessel wall imaging. Magnetic Resonance in Medicine, 2017, 77, 1894-1908.	1.9	85
17	PET Reconstruction With an Anatomical MRI Prior Using Parallel Level Sets. IEEE Transactions on Medical Imaging, 2016, 35, 2189-2199.	5.4	82
18	Measurement of total pulmonary arterial compliance using invasive pressure monitoring and MR flow quantification during MR-guided cardiac catheterization. American Journal of Physiology - Heart and Circulatory Physiology, 2005, 289, H1301-H1306.	1.5	77

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19	Cartesian SENSE and <i>k</i> -t SENSE reconstruction using commodity graphics hardware. <i>Magnetic Resonance in Medicine</i> , 2008, 59, 463-468.	1.9	76
20	Practical PET Respiratory Motion Correction in Clinical PET/MR. <i>Journal of Nuclear Medicine</i> , 2015, 56, 890-896.	2.8	76
21	Global Small Bowel Motility: Assessment with Dynamic MR Imaging. <i>Radiology</i> , 2013, 269, 443-450.	3.6	75
22	Dual-Phase Cardiac Diffusion Tensor Imaging with Strain Correction. <i>PLoS ONE</i> , 2014, 9, e107159.	1.1	72
23	Accelerated motion corrected three-dimensional abdominal MRI using total variation regularized SENSE reconstruction. <i>Magnetic Resonance in Medicine</i> , 2016, 75, 1484-1498.	1.9	69
24	Cerebral Blood Flow and Cognitive Functioning in a Community-Based, Multi-Ethnic Cohort: The SABRE Study. <i>Frontiers in Aging Neuroscience</i> , 2018, 10, 279.	1.7	61
25	ISMRM Raw data format: A proposed standard for MRI raw datasets. <i>Magnetic Resonance in Medicine</i> , 2017, 77, 411-421.	1.9	59
26	Separating fetal and maternal placenta circulations using multiparametric MRI. <i>Magnetic Resonance in Medicine</i> , 2019, 81, 350-361.	1.9	59
27	Real-Time Reconstruction of Sensitivity Encoded Radial Magnetic Resonance Imaging Using a Graphics Processing Unit. <i>IEEE Transactions on Medical Imaging</i> , 2009, 28, 1974-1985.	5.4	55
28	Machine learning classifiers can predict Gleason pattern 4 prostate cancer with greater accuracy than experienced radiologists. <i>European Radiology</i> , 2019, 29, 4754-4764.	2.3	55
29	Spin echo versus stimulated echo diffusion tensor imaging of the in vivo human heart. <i>Magnetic Resonance in Medicine</i> , 2016, 76, 862-872.	1.9	53
30	Nonlinear phase correction of navigated multi-coil diffusion images. <i>Magnetic Resonance in Medicine</i> , 2006, 56, 1135-1139.	1.9	52
31	VERDICT MRI for Prostate Cancer: Intracellular Volume Fraction versus Apparent Diffusion Coefficient. <i>Radiology</i> , 2019, 291, 391-397.	3.6	52
32	Rapid Flow Assessment of Congenital Heart Disease with High-Spatiotemporal-Resolution Gated Spiral Phase-Contrast MR Imaging. <i>Radiology</i> , 2011, 260, 79-87.	3.6	49
33	Comparative quantitative assessment of global small bowel motility using magnetic resonance imaging in chronic intestinal pseudo-obstruction and healthy controls. <i>Neurogastroenterology and Motility</i> , 2016, 28, 376-383.	1.6	49
34	Colonic response to laxative ingestion as assessed by <i>s</i> MRI differs in constipated irritable bowel syndrome compared to functional constipation. <i>Neurogastroenterology and Motility</i> , 2016, 28, 861-870.	1.6	49
35	Estimation of an image derived input function with MR-defined carotid arteries in FDG-PET human studies using a novel partial volume correction method. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2017, 37, 1398-1409.	2.4	48
36	Assessing vascular response to exercise using a combination of real-time spiral phase contrast MR and noninvasive blood pressure measurements. <i>Journal of Magnetic Resonance Imaging</i> , 2010, 31, 997-1003.	1.9	47

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37	3D undersampled goldenâ€radial phase encoding for DCEâ€MRA using inherently regularized iterative SENSE. <i>Magnetic Resonance in Medicine</i> , 2010, 64, 514-526.	1.9	47
38	Automatic segmentation propagation of the aorta in realâ€time phase contrast MRI using nonrigid registration. <i>Journal of Magnetic Resonance Imaging</i> , 2011, 33, 232-238.	1.9	43
39	Quantified Terminal Ileal Motility during MR Enterography as a Biomarker of Crohn Disease Activity: Prospective Multi-Institution Study. <i>Radiology</i> , 2018, 289, 428-435.	3.6	42
40	Dual registration of abdominal motion for motility assessment in free-breathing data sets acquired using dynamic MRI. <i>Physics in Medicine and Biology</i> , 2014, 59, 4603-4619.	1.6	41
41	Maximum-Likelihood Joint Image Reconstruction/Motion Estimation in Attenuation-Corrected Respiratory Gated PET/CT Using a Single Attenuation Map. <i>IEEE Transactions on Medical Imaging</i> , 2016, 35, 217-228.	5.4	41
42	Modelling of electroabsorption in coupled quantum wells with applications to low voltage optical modulation. <i>Semiconductor Science and Technology</i> , 1990, 5, 516-524.	1.0	40
43	Logistic regression model for diagnosis of transition zone prostate cancer on multi-parametric MRI. <i>European Radiology</i> , 2015, 25, 523-532.	2.3	40
44	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. <i>BMC Cancer</i> , 2016, 16, 816.	1.1	40
45	NiftyPET: a High-throughput Software Platform for High Quantitative Accuracy and Precision PET Imaging and Analysis. <i>Neuroinformatics</i> , 2018, 16, 95-115.	1.5	40
46	Allâ€solidâ€state subpicosecond passively mode locked erbiumâ€doped fiber laser. <i>Applied Physics Letters</i> , 1993, 63, 4-6.	1.5	39
47	3-D freehand echocardiography for automatic left ventricle reconstruction and analysis based on multiple acoustic windows. <i>IEEE Transactions on Medical Imaging</i> , 2002, 21, 1051-1058.	5.4	36
48	Modelâ€based reconstruction for cardiac cine MRI without ECG or breath holding. <i>Magnetic Resonance in Medicine</i> , 2010, 63, 1247-1257.	1.9	36
49	A diffusion-based quantification technique for assessment of sacroiliitis in adolescents with enthesitis-related arthritis. <i>British Journal of Radiology</i> , 2016, 89, 20150775.	1.0	36
50	Manifold learning based ECGâ€free freeâ€breathing cardiac CINE MRI. <i>Journal of Magnetic Resonance Imaging</i> , 2015, 41, 1521-1527.	1.9	35
51	Multi-contrast attenuation map synthesis for PET/MR scanners: assessment on FDG and Florbetapir PET tracers. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2015, 42, 1447-1458.	3.3	35
52	Diffusion-weighted imaging for evaluating inflammatory activity in Crohnâ€™s disease: comparison with histopathology, conventional MRI activity scores, and faecal calprotectin. <i>Abdominal Radiology</i> , 2017, 42, 115-123.	1.0	35
53	SIRF: Synergistic Image Reconstruction Framework. <i>Computer Physics Communications</i> , 2020, 249, 107087.	3.0	35
54	Passively mode-locked Er/sup 3+/ fiber laser using a semiconductor nonlinear mirror. <i>IEEE Photonics Technology Letters</i> , 1993, 5, 35-37.	1.3	34

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55	Bayesian estimation of pharmacokinetic parameters for DCE-MRI with a robust treatment of enhancement onset time. <i>Physics in Medicine and Biology</i> , 2007, 52, 2393-2408.	1.6	34
56	Small bowel strictures in Crohn's disease: a quantitative investigation of intestinal motility using ^{MR} enterography. <i>Neurogastroenterology and Motility</i> , 2013, 25, 967.	1.6	33
57	Direct parametric reconstruction from undersampled (k, t)-space data in dynamic contrast enhanced MRI. <i>Medical Image Analysis</i> , 2014, 18, 989-1001.	7.0	33
58	MR Imagingâ€“Guided Partial Volume Correction of PET Data in PET/MR Imaging. <i>PET Clinics</i> , 2016, 11, 161-177.	1.5	32
59	Artificial Intelligence Compared to Radiologists for the Initial Diagnosis of Prostate Cancer on Magnetic Resonance Imaging: A Systematic Review and Recommendations for Future Studies. <i>Cancers</i> , 2021, 13, 3318.	1.7	32
60	Reconstruction after rotational motion. <i>Magnetic Resonance in Medicine</i> , 2003, 49, 183-187.	1.9	31
61	Coil-based artifact reduction. <i>Magnetic Resonance in Medicine</i> , 2004, 52, 825-830.	1.9	31
62	Low frequency oscillating gradient spin-echo sequences improve sensitivity to axon diameter: An experimental study in viable nerve tissue. <i>NeuroImage</i> , 2018, 182, 314-328.	2.1	31
63	Attenuation Correction Synthesis for Hybrid PET-MR Scanners. <i>Lecture Notes in Computer Science</i> , 2013, 16, 147-154.	1.0	31
64	Zone-specific logistic regression models improve classification of prostate cancer on multi-parametric MRI. <i>European Radiology</i> , 2015, 25, 2727-2737.	2.3	29
65	NiftyFit: a Software Package for Multi-parametric Model-Fitting of 4D Magnetic Resonance Imaging Data. <i>Neuroinformatics</i> , 2016, 14, 319-337.	1.5	29
66	Noninvasive diffusion magnetic resonance imaging of brain tumour cell size for the early detection of therapeutic response. <i>Scientific Reports</i> , 2020, 10, 9223.	1.6	29
67	Optimizing functional parameter accuracy for breath-hold DCE-MRI of liver tumours. <i>Physics in Medicine and Biology</i> , 2009, 54, 2197-2215.	1.6	28
68	First-in-human <i>in vivo</i> non-invasive assessment of intra-tumoral metabolic heterogeneity in renal cell carcinoma. <i>BJR case Reports</i> , 2019, 5, 20190003.	0.1	28
69	Numerical study of 10-cm chirped-fiber grating pairs for dispersion compensation at 10 Gb/s over 600 km of nondispersion shifted fiber. <i>IEEE Photonics Technology Letters</i> , 1996, 8, 1085-1087.	1.3	27
70	Characterization and correction of eddy-current artifacts in unipolar and bipolar diffusion sequences using magnetic field monitoring. <i>Journal of Magnetic Resonance</i> , 2014, 244, 74-84.	1.2	27
71	Joint PET-MR respiratory motion models for clinical PET motion correction. <i>Physics in Medicine and Biology</i> , 2016, 61, 6515-6530.	1.6	27
72	Global Small Bowel Motility: Assessment with Dynamic MR Imaging. <i>Radiology</i> , 2013, 269, 443-450.	3.6	27

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73	10 Gb/s transmission over 700 km of standard single-mode fiber with 10-cm chirped fiber grating compensator and duobinary transmitter. <i>IEEE Photonics Technology Letters</i> , 1996, 8, 1258-1260.	1.3	26
74	Cardiovascular Risk Factors and White Matter Hyperintensities: Difference in Susceptibility in South Asians Compared With Europeans. <i>Journal of the American Heart Association</i> , 2018, 7, e010533.	1.6	26
75	Arterial Spin Labeling MRI in Carotid Stenosis: Arterial Transit Artifacts May Predict Symptoms. <i>Radiology</i> , 2020, 297, 652-660.	3.6	26
76	Robust registration between cardiac MRI images and atlas for segmentation propagation. <i>Proceedings of SPIE</i> , 2008, , .	0.8	25
77	Whole-heart imaging using undersampled radial phase encoding (RPE) and iterative sensitivity encoding (SENSE) reconstruction. <i>Magnetic Resonance in Medicine</i> , 2009, 62, 1331-1337.	1.9	25
78	Noise estimation from averaged diffusion weighted images: Can unbiased quantitative decay parameters assist cancer evaluation?. <i>Magnetic Resonance in Medicine</i> , 2014, 71, 2105-2117.	1.9	25
79	Direct Parametric Reconstruction With Joint Motion Estimation/Correction for Dynamic Brain PET Data. <i>IEEE Transactions on Medical Imaging</i> , 2017, 36, 203-213.	5.4	25
80	Bullseye's representation of cerebral white matter hyperintensities. <i>Journal of Neuroradiology</i> , 2018, 45, 114-122.	0.6	25
81	Study of Connectivity in the Brain Using the Full Diffusion Tensor from MRI. <i>Lecture Notes in Computer Science</i> , 2001, , 121-133.	1.0	25
82	Aberrant Motility in Unaffected Small Bowel is Linked to Inflammatory Burden and Patient Symptoms in Crohn's Disease. <i>Inflammatory Bowel Diseases</i> , 2016, 22, 424-432.	0.9	24
83	Artifact Reduction Using Parallel Imaging Methods. <i>Topics in Magnetic Resonance Imaging</i> , 2004, 15, 267-275.	0.7	23
84	Motion artifact correction in free-breathing abdominal MRI using overlapping partial samples to recover image deformations. <i>Magnetic Resonance in Medicine</i> , 2009, 62, 440-449.	1.9	22
85	A magnetic resonance imaging study of gastric motor function in patients with dyspepsia associated with Ehlers-Danlos Syndrome-Hypermobility Type: A feasibility study. <i>Neurogastroenterology and Motility</i> , 2017, 29, e13090.	1.6	22
86	Cortical cerebral blood flow in ageing: effects of haematocrit, sex, ethnicity and diabetes. <i>European Radiology</i> , 2019, 29, 5549-5558.	2.3	22
87	Design trade-offs and evaluation of the performance: attainable by GaAs-Al _{0.3} Ga _{0.7} As asymmetric Fabry-Perot modulators. <i>IEEE Journal of Quantum Electronics</i> , 1995, 31, 927-943.	1.0	21
88	Real-time flow with fast GPU reconstruction for continuous assessment of cardiac output. <i>Journal of Magnetic Resonance Imaging</i> , 2012, 36, 1477-1482.	1.9	21
89	High-resolution diffusion tensor imaging of the human kidneys using a free-breathing, multi-slice, targeted field of view approach. <i>NMR in Biomedicine</i> , 2014, 27, 1300-1312.	1.6	21
90	Association of the apparent diffusion coefficient with maturity in adolescent sacroiliac joints. <i>Journal of Magnetic Resonance Imaging</i> , 2016, 44, 556-564.	1.9	21

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91	Colon wall motility: comparison of novel quantitative semi-automatic measurements using cine-MRI. Neurogastroenterology and Motility, 2016, 28, 327-335.	1.6	21
92	Self-navigated tissue phase mapping using a golden-angle spiral acquisition"proof of concept in patients with pulmonary hypertension. Magnetic Resonance in Medicine, 2014, 71, 145-155.	1.9	20
93	Robust CT Synthesis for Radiotherapy Planning: Application to the Head and Neck Region. Lecture Notes in Computer Science, 2015, , 476-484.	1.0	20
94	Spatio-temporal motility MRI analysis of the stomach and colon. Neurogastroenterology and Motility, 2019, 31, e13557.	1.6	19
95	VERDICT-MICO: Ultrafast fitting algorithm for non-invasive prostate microstructure characterization. NMR in Biomedicine, 2019, 32, e4019.	1.6	19
96	PET/MRI attenuation estimation in the lung: A review of past, present, and potential techniques. Medical Physics, 2020, 47, 790-811.	1.6	19
97	Respiratory motion compensation for 3-D freehand echocardiography. Ultrasound in Medicine and Biology, 2001, 27, 1615-1620.	0.7	18
98	The challenge of segmental small bowel motility quantitation using MR enterography. British Journal of Radiology, 2014, 87, 20140330.	1.0	18
99	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
100	Feasibility of vocal fold abduction and adduction assessment using cine-MRI. European Radiology, 2017, 27, 598-606.	2.3	18
101	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
102	Dynamic MRI for bowel motility imaging"how fast and how long?. British Journal of Radiology, 2018, 91, 20170845.	1.0	17
103	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
104	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
105	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
106	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
107	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
108	Improved fetal blood oxygenation and placental estimated measurements of diffusion-weighted MRI using data-driven Bayesian modeling. Magnetic Resonance in Medicine, 2020, 83, 2160-2172.	1.9	15

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109	Beyond the g-factor limit in sensitivity encoding using joint histogram entropy. <i>Magnetic Resonance in Medicine</i> , 2006, 55, 153-160.	1.9	14
110	Diffusion-weighted imaging is a sensitive biomarker of response to biologic therapy in enthesitis-related arthritis. <i>Rheumatology</i> , 2016, 56, kew429.	0.9	14
111	Maximum-likelihood joint image reconstruction and motion estimation with misaligned attenuation in TOF-PET/CT. <i>Physics in Medicine and Biology</i> , 2016, 61, L11-L19.	1.6	14
112	Semiautomatic Assessment of the Terminal Ileum and Colon in Patients with Crohn Disease Using MRI (the VIGOR++ Project). <i>Academic Radiology</i> , 2018, 25, 1038-1045.	1.3	14
113	Optimization and repeatability of multipool chemical exchange saturation transfer MRI of the prostate at 3.0T. <i>Journal of Magnetic Resonance Imaging</i> , 2019, 50, 1238-1250.	1.9	14
114	Retrospective Respiratory Motion Correction for Navigated Cine Velocity Mapping. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2004, 6, 785-792.	1.6	12
115	Electrical impedance tomography in anisotropic media with known eigenvectors. <i>Inverse Problems</i> , 2011, 27, 065004.	1.0	12
116	A computationally efficient OMP-based compressed sensing reconstruction for dynamic MRI. <i>Physics in Medicine and Biology</i> , 2011, 56, N99-N114.	1.6	12
117	Estimation of contrast agent bolus arrival delays for improved reproducibility of liver DCE MRI. <i>Physics in Medicine and Biology</i> , 2016, 61, 6905-6918.	1.6	12
118	Relationship between MRI quantified small bowel motility and abdominal symptoms in Crohn's disease patients: a validation study. <i>British Journal of Radiology</i> , 2018, 91, 20170914.	1.0	12
119	Super-resolution for upper abdominal MRI: Acquisition and post-processing protocol optimization using brain MRI control data and expert reader validation. <i>Magnetic Resonance in Medicine</i> , 2019, 82, 1905-1919.	1.9	12
120	Joint Activity and Attenuation Reconstruction From Multiple Energy Window Data With Photopeak Scatter Re-Estimation in Non-TOF 3-D PET. <i>IEEE Transactions on Radiation and Plasma Medical Sciences</i> , 2020, 4, 410-421.	2.7	12
121	Detail-Preserving PET Reconstruction with Sparse Image Representation and Anatomical Priors. <i>Lecture Notes in Computer Science</i> , 2015, 24, 540-551.	1.0	12
122	Assessment of cardiac time intervals using high temporal resolution real-time spiral phase contrast with UNFOLDed SENSE. <i>Magnetic Resonance in Medicine</i> , 2015, 73, 749-756.	1.9	11
123	Whole left ventricular functional assessment from two minutes free breathing multi-slice CINE acquisition. <i>Physics in Medicine and Biology</i> , 2015, 60, N93-N107.	1.6	11
124	Evaluation of a direct motion estimation/correction method in respiratory-gated PET/MRI with motion-adjusted attenuation. <i>Medical Physics</i> , 2017, 44, 2379-2390.	1.6	11
125	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?. <i>American Journal of Neuroradiology</i> , 2021, 42, 671-678.	1.2	11
126	Standardisation of prostate multiparametric MRI across a hospital network: a London experience. <i>Insights Into Imaging</i> , 2021, 12, 52.	1.6	11

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127	The design and application of III-V multiquantum well optical modulators. <i>Physica Scripta</i> , 1991, T35, 210-214.	1.2	10
128	Splitâ€acquisition realâ€time CINE phaseâ€contrast MR flow measurements. <i>Magnetic Resonance in Medicine</i> , 2010, 64, 1664-1670.	1.9	10
129	Effect of scatter correction when comparing attenuation maps: Application to brain PET/MR. , 2014, , .		10
130	Nonrigid registration improves MRI T₂ quantification in heart transplant patient follow-up. <i>Journal of Magnetic Resonance Imaging</i> , 2015, 42, 168-174.	1.9	10
131	Potential benefits of incorporating energy information when estimating attenuation from PET data. , 2017, , .		10
132	Modelâ€based reconstruction framework for correction of signal pileâ€up and geometric distortions in prostate diffusion MRI. <i>Magnetic Resonance in Medicine</i> , 2019, 81, 1979-1992.	1.9	10
133	Evaluation of PSA and PSA Density in a Multiparametric Magnetic Resonance Imaging-Directed Diagnostic Pathway for Suspected Prostate Cancer: The INNOVATE Trial. <i>Cancers</i> , 2021, 13, 1985.	1.7	10
134	In vivo myofibre architecture in the systemic right ventricle. <i>European Heart Journal</i> , 2013, 34, 3640-3640.	1.0	9
135	Imitation learning for improved 3D PET/MR attenuation correction. <i>Medical Image Analysis</i> , 2021, 71, 102079.	7.0	9
136	Improved MR to CT Synthesis for PET/MR Attenuation Correction Using Imitation Learning. <i>Lecture Notes in Computer Science</i> , 2019, , 13-21.	1.0	9
137	Diode-pumped selfstarting passively modelocked neodymium-doped fibre laser. <i>Electronics Letters</i> , 1993, 29, 808.	0.5	9
138	Multi-parametric MRI zone-specific diagnostic model performance compared with experienced radiologists for detection of prostate cancer. <i>European Radiology</i> , 2019, 29, 4150-4159.	2.3	8
139	Incorporation of MRI-AIF information for improved kinetic modelling of dynamic PET data. <i>EJNMMI Physics</i> , 2014, 1, A43.	1.3	7
140	CT synthesis in the head & neck region for PET/MR attenuation correction: an iterative multi-atlas approach. <i>EJNMMI Physics</i> , 2015, 2, A31.	1.3	7
141	Hyperpolarised ¹³ C MRI: a new horizon for non-invasive diagnosis of aggressive breast cancer. <i>BJR case Reports</i> , 2019, 5, 20190026.	0.1	7
142	A Multi-Channel Uncertainty-Aware Multi-Resolution Network for MR to CT Synthesis. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 1667.	1.3	7
143	An autofocus algorithm for the automatic correction of motion artifacts in MR images. <i>Lecture Notes in Computer Science</i> , 1997, , 341-354.	1.0	7
144	Deep Boosted Regression for MR to CT Synthesis. <i>Lecture Notes in Computer Science</i> , 2018, , 61-70.	1.0	7

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145	Super-resolution Reconstruction MRI Application in Fetal Neck Masses and Congenital High Airway Obstruction Syndrome. <i>OTO Open</i> , 2021, 5, 2473974X211055372.	0.6	7
146	Real time flow with fast GPU reconstruction for continuous assessment of cardiac output. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2012, 14, .	1.6	6
147	High-resolution slice-selective Fourier velocity encoding in congenital heart disease using spiral SENSE with velocity unwrap. <i>Magnetic Resonance in Medicine</i> , 2012, 67, 1538-1546.	1.9	6
148	Modelling the impact of injection time on the bolus shapes in PET-MRI AIF Conversion. <i>EJNMMI Physics</i> , 2014, 1, A54.	1.3	6
149	High throughput CUDA implementation of accurate geometric modelling for iterative reconstruction of PET data. , 2014, , .		6
150	Improved hepatic arterial fraction estimation using cardiac output correction of arterial input functions for liver DCE MRI. <i>Physics in Medicine and Biology</i> , 2017, 62, 1533-1546.	1.6	6
151	Maximum-likelihood estimation of emission and attenuation images in 3D PET from multiple energy window measurements. , 2018, , .		6
152	Image registration using uncertainty coefficients. , 2009, , .		5
153	Initial evaluation of a practical PET respiratory motion correction method in clinical simultaneous PET/MRI. <i>EJNMMI Physics</i> , 2014, 1, A40.	1.3	5
154	Point-Spread-Function-Aware Slice-to-Volume Registration: Application to Upper Abdominal MRI Super-Resolution. <i>Lecture Notes in Computer Science</i> , 2017, , 3-13.	1.0	5
155	Modelling Anisotropic Viscoelasticity for Real-Time Soft Tissue Simulation. <i>Lecture Notes in Computer Science</i> , 2008, 11, 703-710.	1.0	5
156	Influence of Organ Motion and Contrast Enhancement on Image Registration. <i>Lecture Notes in Computer Science</i> , 2008, 11, 948-955.	1.0	5
157	Joint reconstruction of PET-MRI by parallel level sets. , 2014, , .		4
158	Incorporation of MRI-AIF Information For Improved Kinetic Modelling of Dynamic PET Data. <i>IEEE Transactions on Nuclear Science</i> , 2015, 62, 612-618.	1.2	4
159	SIRF: Synergistic Image Reconstruction Framework. , 2017, , .		4
160	Joint B0 and image estimation integrated with model based reconstruction for field map update and distortion correction in prostate diffusion MRI. <i>Magnetic Resonance Imaging</i> , 2020, 65, 90-99.	1.0	4
161	Cardiac-induced liver deformation as a measure of liver stiffness using dynamic imaging without magnetization taggingâ€”preclinical proof-of-concept, clinical translation, reproducibility and feasibility in patients with cirrhosis. <i>Abdominal Radiology</i> , 2021, 46, 4660-4670.	1.0	4
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