

# Martin Leach

## List of Publications by Year in descending order

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460  
papers

28,299  
citations

8159

76  
h-index

7136

153  
g-index

466  
all docs

466  
docs citations

466  
times ranked

26601  
citing authors

#	ARTICLE	IF	CITATIONS
1	Nonrigid registration using free-form deformations: application to breast MR images. IEEE Transactions on Medical Imaging, 1999, 18, 712-721.	5.4	4,317
2	American Cancer Society Guidelines for Breast Screening with MRI as an Adjunct to Mammography. Ca-A Cancer Journal for Clinicians, 2007, 57, 75-89.	157.7	2,234
3	Screening with magnetic resonance imaging and mammography of a UK population at high familial risk of breast cancer: a prospective multicentre cohort study (MARIBS). Lancet, The, 2005, 365, 1769-1778.	6.3	927
4	Imaging biomarker roadmap for cancer studies. Nature Reviews Clinical Oncology, 2017, 14, 169-186.	12.5	792
5	Analysis of Cancer Metabolism by Imaging Hyperpolarized Nuclei: Prospects for Translation to Clinical Research. Neoplasia, 2011, 13, 81-97.	2.3	623
6	Clinical Proton MR Spectroscopy in Central Nervous System Disorders. Radiology, 2014, 270, 658-679.	3.6	524
7	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.	2.9	487
8	Stacked Autoencoders for Unsupervised Feature Learning and Multiple Organ Detection in a Pilot Study Using 4D Patient Data. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2013, 35, 1930-1943.	9.7	458
9	Predicting Response of Colorectal Hepatic Metastasis: Value of Pretreatment Apparent Diffusion Coefficients. American Journal of Roentgenology, 2007, 188, 1001-1008.	1.0	324
10	Dynamic Contrast Enhanced MRI of Prostate Cancer: Correlation with Morphology and Tumour Stage, Histological Grade and PSA. Clinical Radiology, 2000, 55, 99-109.	0.5	320
11	Critical research gaps and translational priorities for the successful prevention and treatment of breast cancer. Breast Cancer Research, 2013, 15, R92.	2.2	320
12	Radiotherapy treatment planning of prostate cancer using magnetic resonance imaging alone. Radiotherapy and Oncology, 2003, 66, 203-216.	0.3	300
13	Methodological consensus on clinical proton MRS of the brain: Review and recommendations. Magnetic Resonance in Medicine, 2019, 82, 527-550.	1.9	280
14	Magnetic resonance imaging (MRI): considerations and applications in radiotherapy treatment planning. Radiotherapy and Oncology, 1997, 42, 1-15.	0.3	266
15	Evaluating the effect of rectal distension and rectal movement on prostate gland position using cine MRI. International Journal of Radiation Oncology Biology Physics, 1999, 44, 525-533.	0.4	262
16	Measurement reproducibility of perfusion fraction and pseudodiffusion coefficient derived by intravoxel incoherent motion diffusion-weighted MR imaging in normal liver and metastases. European Radiology, 2013, 23, 428-434.	2.3	251
17	Assessing changes in tumour vascular function using dynamic contrast-enhanced magnetic resonance imaging. NMR in Biomedicine, 2002, 15, 154-163.	1.6	250
18	Validation of nonrigid image registration using finite-element methods: application to breast MR images. IEEE Transactions on Medical Imaging, 2003, 22, 238-247.	5.4	224

#	ARTICLE	IF	CITATIONS
19	Prediction of Clinicopathologic Response of Breast Cancer to Primary Chemotherapy at Contrast-enhanced MR Imaging: Initial Clinical Results. <i>Radiology</i> , 2006, 239, 361-374.	3.6	224
20	Measurement of the extracellular pH of solid tumours in mice by magnetic resonance spectroscopy: a comparison of exogenous <sup>19</sup> F and <sup>31</sup> P probes. <i>NMR in Biomedicine</i> , 1999, 12, 495-504.	1.6	206
21	A complete distortion correction for MR images: I. Gradient warp correction. <i>Physics in Medicine and Biology</i> , 2005, 50, 1343-1361.	1.6	201
22	Probing tumor microvasculature by measurement, analysis and display of contrast agent uptake kinetics. <i>Journal of Magnetic Resonance Imaging</i> , 1997, 7, 564-574.	1.9	191
23	Minimally Invasive Pharmacokinetic and Pharmacodynamic Technologies in Hypothesis-Testing Clinical Trials of Innovative Therapies. <i>Journal of the National Cancer Institute</i> , 2006, 98, 580-598.	3.0	189
24	Phase I Trial of a Selective c-MET Inhibitor ARQ 197 Incorporating Proof of Mechanism Pharmacodynamic Studies. <i>Journal of Clinical Oncology</i> , 2011, 29, 1271-1279.	0.8	189
25	Reproducibility of quantitative dynamic MRI of normal human tissues. <i>NMR in Biomedicine</i> , 2002, 15, 143-153.	1.6	183
26	Multi-centre reproducibility of diffusion MRI parameters for clinical sequences in the brain. <i>NMR in Biomedicine</i> , 2015, 28, 468-485.	1.6	178
27	Phase I Trial of Combretastatin A4 Phosphate (CA4P) in Combination with Bevacizumab in Patients with Advanced Cancer. <i>Clinical Cancer Research</i> , 2012, 18, 3428-3439.	3.2	158
28	Whole-Body Diffusion-Weighted MRI: Tips, Tricks, and Pitfalls. <i>American Journal of Roentgenology</i> , 2012, 199, 252-262.	1.0	158
29	Reproducibility and changes in the apparent diffusion coefficients of solid tumours treated with combretastatin A4 phosphate and bevacizumab in a two-centre phase I clinical trial. <i>European Radiology</i> , 2009, 19, 2728-2738.	2.3	151
30	Computed Diffusion-weighted MR Imaging May Improve Tumor Detection. <i>Radiology</i> , 2011, 261, 573-581.	3.6	148
31	Detection of colorectal hepatic metastases using MnDPDP MR imaging and diffusion-weighted imaging (DWI) alone and in combination. <i>European Radiology</i> , 2008, 18, 903-910.	2.3	145
32	Effects of Androgen Deprivation on Prostatic Morphology and Vascular Permeability Evaluated with MR Imaging. <i>Radiology</i> , 2001, 218, 365-374.	3.6	143
33	Imaging vascular function for early stage clinical trials using dynamic contrast-enhanced magnetic resonance imaging. <i>European Radiology</i> , 2012, 22, 1451-1464.	2.3	138
34	Noninvasive Magnetic Resonance Spectroscopic Pharmacodynamic Markers of the Choline Kinase Inhibitor MN58b in Human Carcinoma Models. <i>Cancer Research</i> , 2006, 66, 427-434.	0.4	135
35	Model Free Approach to Kinetic Analysis of Real-Time Hyperpolarized <sup>13</sup> C Magnetic Resonance Spectroscopy Data. <i>PLoS ONE</i> , 2013, 8, e71996.	1.1	134
36	MRI breast screening in high-risk women: cancer detection and survival analysis. <i>Breast Cancer Research and Treatment</i> , 2014, 145, 663-672.	1.1	133

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37	Measurements of human breast cancer using magnetic resonance spectroscopy: a review of clinical measurements and a report of localized <sup>31</sup> P measurements of response to treatment. , 1998, 11, 314-340.		125
38	An investigation into the dosimetry of a nine-field tomotherapy irradiation using BANG-gel dosimetry. Physics in Medicine and Biology, 1998, 43, 1113-1132.	1.6	124
39	Colorectal hepatic metastases: quantitative measurements using single-shot echo-planar diffusion-weighted MR imaging. European Radiology, 2006, 16, 1898-1905.	2.3	123
40	Assessment of antiangiogenic and antivascular therapeutics using MRI: recommendations for appropriate methodology for clinical trials. British Journal of Radiology, 2003, 76, S87-S91.	1.0	121
41	Radiation dosimetry using polymer gels: methods and applications.. British Journal of Radiology, 2000, 73, 919-929.	1.0	118
42	Antivascular cancer treatments: functional assessments by dynamic contrast-enhanced magnetic resonance imaging. Abdominal Imaging, 2005, 30, 325-342.	2.0	116
43	Therapeutic Target Metabolism Observed Using Hyperpolarized <sup>15</sup> N Choline. Journal of the American Chemical Society, 2008, 130, 4598-4599.	6.6	116
44	Evaluation of response to treatment using DCE-MRI: the relationship between initial area under the gadolinium curve (IAUGC) and quantitative pharmacokinetic analysis. Physics in Medicine and Biology, 2006, 51, 3593-3602.	1.6	115
45	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
46	Cost-effectiveness of screening with contrast enhanced magnetic resonance imaging vs X-ray mammography of women at a high familial risk of breast cancer. British Journal of Cancer, 2006, 95, 801-810.	2.9	113
47	Apoptosis is associated with triacylglycerol accumulation in Jurkat T-cells. British Journal of Cancer, 2002, 86, 963-970.	2.9	107
48	Improved intravoxel incoherent motion analysis of diffusion weighted imaging by data driven Bayesian modeling. Magnetic Resonance in Medicine, 2014, 71, 411-420.	1.9	107
49	Magnetic resonance imaging screening in women at genetic risk of breast cancer: imaging and analysis protocol for the UK multicentre study. Magnetic Resonance Imaging, 2000, 18, 765-776.	1.0	104
50	Assessment of Treatment Response by Total Tumor Volume and Global Apparent Diffusion Coefficient Using Diffusion-Weighted MRI in Patients with Metastatic Bone Disease: A Feasibility Study. PLoS ONE, 2014, 9, e91779.	1.1	104
51	Comparison and Evaluation of Rigid, Affine, and Nonrigid Registration of Breast MR Images. Journal of Computer Assisted Tomography, 1999, 23, 800-805.	0.5	103
52	Improving calibration accuracy in gel dosimetry. Physics in Medicine and Biology, 1998, 43, 2709-2720.	1.6	101
53	Monitoring temozolomide treatment of low-grade glioma with proton magnetic resonance spectroscopy. British Journal of Cancer, 2004, 90, 781-786.	2.9	101
54	Common Breast Cancer Susceptibility Variants in <i>LSP1</i> and <i>RAD51L1</i> Are Associated with Mammographic Density Measures that Predict Breast Cancer Risk. Cancer Epidemiology Biomarkers and Prevention, 2012, 21, 1156-1166.	1.1	101

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55	Reading Protocol for Dynamic Contrast-enhanced MR Images of the Breast: Sensitivity and Specificity Analysis. <i>Radiology</i> , 2005, 236, 779-788.	3.6	99
56	Contribution of mammography to MRI screening in BRCA mutation carriers by BRCA status and age: individual patient data meta-analysis. <i>British Journal of Cancer</i> , 2016, 114, 631-637.	2.9	99
57	Absolute metabolite quantification by in vivo NMR spectroscopy: II. a multicentre trial of protocols for in vivo localised proton studies of human brain. <i>Magnetic Resonance Imaging</i> , 1998, 16, 1093-1106.	1.0	98
58	Hyperpolarized $^{129}\text{Xe}$ NMR as a probe for blood oxygenation. <i>Magnetic Resonance in Medicine</i> , 2000, 43, 491-496.	1.9	98
59	Factors influencing the accuracy of biomechanical breast models. <i>Medical Physics</i> , 2006, 33, 1758-1769.	1.6	98
60	BRCA1 Mutation and Young Age Predict Fast Breast Cancer Growth in the Dutch, United Kingdom, and Canadian Magnetic Resonance Imaging Screening Trials. <i>Clinical Cancer Research</i> , 2007, 13, 7357-7362.	3.2	97
61	MCT1 Inhibitor AZD3965 Increases Mitochondrial Metabolism, Facilitating Combination Therapy and Noninvasive Magnetic Resonance Spectroscopy. <i>Cancer Research</i> , 2017, 77, 5913-5924.	0.4	96
62	Dynamic contrast-enhanced MRI for prostate cancer localization. <i>British Journal of Radiology</i> , 2009, 82, 148-156.	1.0	93
63	Quantitative imaging biomarkers in neuro-oncology. <i>Nature Reviews Clinical Oncology</i> , 2009, 6, 445-454.	12.5	92
64	Magnetic Resonance Spectroscopic Pharmacodynamic Markers of the Heat Shock Protein 90 Inhibitor 17-Allylamino,17-Demethoxygeldanamycin (17AAG) in Human Colon Cancer Models. <i>Journal of the National Cancer Institute</i> , 2003, 95, 1624-1633.	3.0	89
65	Registration of dynamic contrast-enhanced MRI using a progressive principal component registration (PPCR). <i>Physics in Medicine and Biology</i> , 2007, 52, 5147-5156.	1.6	89
66	Applications of magnetic resonance spectroscopy in radiotherapy treatment planning. <i>British Journal of Radiology</i> , 2006, 79, S16-S26.	1.0	87
67	MRI study of hepatic tumours following high intensity focused ultrasound surgery.. <i>British Journal of Radiology</i> , 1997, 70, 144-153.	1.0	86
68	A complete distortion correction for MR images: II. Rectification of static-field inhomogeneities by similarity-based profile mapping. <i>Physics in Medicine and Biology</i> , 2005, 50, 2651-2661.	1.6	86
69	Identification of magnetic resonance detectable metabolic changes associated with inhibition of phosphoinositide 3-kinase signaling in human breast cancer cells. <i>Molecular Cancer Therapeutics</i> , 2006, 5, 187-196.	1.9	84
70	Magnetic Resonance Imaging Workbench: Analysis and Visualization of Dynamic Contrast-enhanced MR Imaging Data. <i>Radiographics</i> , 2006, 26, 621-632.	1.4	82
71	An Exploratory Study Into the Role of Dynamic Contrast-Enhanced Magnetic Resonance Imaging or Perfusion Computed Tomography for Detection of Intratumoral Hypoxia in Head-and-Neck Cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2009, 74, 29-37.	0.4	82
72	Comparison of MRI with CT for the radiotherapy planning of prostate cancer: a feasibility study.. <i>British Journal of Radiology</i> , 1999, 72, 590-597.	1.0	81

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73	A Pilot Study of Compositional Analysis of the Breast and Estimation of Breast Mammographic Density Using Three-Dimensional T1-Weighted Magnetic Resonance Imaging. <i>Cancer Epidemiology Biomarkers and Prevention</i> , 2008, 17, 2268-2274.	1.1	81
74	Diffusion-weighted Imaging as a Treatment Response Biomarker for Evaluating Bone Metastases in Prostate Cancer: A Pilot Study. <i>Radiology</i> , 2017, 283, 168-177.	3.6	81
75	Magnetic Resonance Spectroscopy Monitoring of Mitogen-Activated Protein Kinase Signaling Inhibition. <i>Cancer Research</i> , 2005, 65, 3356-3363.	0.4	80
76	Differences in Natural History between Breast Cancers in <i>BRCA1</i> and <i>BRCA2</i> Mutation Carriers and Effects of MRI Screening-MRISC, MARIBS, and Canadian Studies Combined. <i>Cancer Epidemiology Biomarkers and Prevention</i> , 2012, 21, 1458-1468.	1.1	79
77	Dichloroacetate induces autophagy in colorectal cancer cells and tumours. <i>British Journal of Cancer</i> , 2014, 111, 375-385.	2.9	79
78	Assessing the usefulness of a novel MRI-based breast density estimation algorithm in a cohort of women at high genetic risk of breast cancer: the UK MARIBS study. <i>Breast Cancer Research</i> , 2009, 11, R80.	2.2	77
79	Dynamic contrast-enhanced MRI in the differentiation of breast tumors: User-defined versus semi-automated region-of-interest analysis. <i>Journal of Magnetic Resonance Imaging</i> , 1999, 10, 945-949.	1.9	76
80	A Phase I study of the angiogenesis inhibitor SU5416 (semaxanib) in solid tumours, incorporating dynamic contrast MR pharmacodynamic end points. <i>British Journal of Cancer</i> , 2005, 93, 876-883.	2.9	75
81	Monocarboxylate transporter 1 blockade with AZD3965 inhibits lipid biosynthesis and increases tumour immune cell infiltration. <i>British Journal of Cancer</i> , 2020, 122, 895-903.	2.9	74
82	Dynamics of polymerization in polyacrylamide gel (PAG) dosimeters: (II) modelling oxygen diffusion. <i>Physics in Medicine and Biology</i> , 1999, 44, 1875-1884.	1.6	72
83	Magnetic Resonance Imaging Improves Breast Screening Sensitivity in <i>BRCA</i> Mutation Carriers Age ≥ 50 Years: Evidence From an Individual Patient Data Meta-Analysis. <i>Journal of Clinical Oncology</i> , 2015, 33, 349-356.	0.8	72
84	The phosphocholine and glycerophosphocholine content of an oestrogen-sensitive rat mammary tumour correlates strongly with growth rate. <i>British Journal of Cancer</i> , 1991, 64, 821-826.	2.9	71
85	IN-VIVO 31P MAGNETIC RESONANCE SPECTROSCOPY FOR MONITORING TREATMENT RESPONSE IN BREAST CANCER. <i>Lancet, The</i> , 1989, 333, 1326-1327.	6.3	68
86	Magnetic resonance detects changes in phosphocholine associated with Ras activation and inhibition in NIH 3T3 cells. <i>British Journal of Cancer</i> , 2001, 84, 691-696.	2.9	68
87	Applications of sliding window reconstruction with cartesian sampling for dynamic contrast enhanced MRI. <i>NMR in Biomedicine</i> , 2002, 15, 174-183.	1.6	68
88	Cancers in <i>BRCA1</i> and <i>BRCA2</i> Carriers and in Women at High Risk for Breast Cancer: MR Imaging and Mammographic Features. <i>Radiology</i> , 2009, 252, 358-368.	3.6	67
89	Metabolic assessment of the action of targeted cancer therapeutics using magnetic resonance spectroscopy. <i>British Journal of Cancer</i> , 2010, 102, 1-7.	2.9	67
90	<i>De novo</i> phosphatidylcholine synthesis is required for autophagosome membrane formation and maintenance during autophagy. <i>Autophagy</i> , 2020, 16, 1044-1060.	4.3	67

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91	Interrogating Two Schedules of the AKT Inhibitor MK-2206 in Patients with Advanced Solid Tumors Incorporating Novel Pharmacodynamic and Functional Imaging Biomarkers. <i>Clinical Cancer Research</i> , 2014, 20, 5672-5685.	3.2	66
92	Spin-lattice relaxation of laser-polarized xenon in human blood. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1999, 96, 3664-3669.	3.3	64
93	Perfluorocarbon emulsions as intravenous delivery media for hyperpolarized xenon. <i>Magnetic Resonance in Medicine</i> , 1999, 41, 442-449.	1.9	63
94	Measuring changes in human tumour vasculature in response to therapy using functional imaging techniques. <i>British Journal of Cancer</i> , 2001, 85, 1085-1093.	2.9	63
95	Dynamics of polymerization in polyacrylamide gel (PAG) dosimeters: (I) ageing and long-term stability. <i>Physics in Medicine and Biology</i> , 1999, 44, 1863-1873.	1.6	62
96	Comparison of free-breathing with navigator-controlled acquisition regimes in abdominal diffusion-weighted magnetic resonance images: Effect on ADC and IVIM statistics. <i>Journal of Magnetic Resonance Imaging</i> , 2014, 39, 235-240.	1.9	61
97	A comparison of in vivo and in vitro <sup>31</sup> P NMR spectra from human breast tumours: variations in phospholipid metabolism. <i>British Journal of Cancer</i> , 1991, 63, 514-516.	2.9	60
98	The non-invasive monitoring of low dose, infusional 5-fluorouracil and its modulation by interferon- $\gamma$ using in vivo <sup>19</sup> F magnetic resonance spectroscopy in patients with colorectal cancer: A pilot study. <i>Annals of Oncology</i> , 1993, 4, 597-602.	0.6	60
99	Developing a quality control protocol for diffusion imaging on a clinical MRI system. <i>Physics in Medicine and Biology</i> , 2004, 49, 1409-1422.	1.6	60
100	The Phosphoinositide 3-Kinase Inhibitor PI-103 Downregulates Choline Kinase $\gamma$ Leading to Phosphocholine and Total Choline Decrease Detected by Magnetic Resonance Spectroscopy. <i>Cancer Research</i> , 2010, 70, 5507-5517.	0.4	58
101	Functional imaging in adult and paediatric brain tumours. <i>Nature Reviews Clinical Oncology</i> , 2012, 9, 700-711.	12.5	58
102	Radiotherapy planning of the pelvis using distortion corrected MR images: the removal of system distortions. <i>Physics in Medicine and Biology</i> , 2000, 45, 2117-2132.	1.6	57
103	The reproducibility of polyacrylamide gel dosimetry applied to stereotactic conformal radiotherapy. <i>Physics in Medicine and Biology</i> , 2000, 45, 1195-1210.	1.6	57
104	Breast imaging technology Application of magnetic resonance imaging to angiogenesis in breast cancer. <i>Breast Cancer Research</i> , 2000, 3, 22-7.	2.2	57
105	Measurement of plasma 5-fluorouracil by high-performance liquid chromatography with comparison of results to tissue drug levels observed using in vivo <sup>19</sup> F magnetic resonance spectroscopy in patients on a protracted venous infusion with or without interferon- $\gamma$ . <i>Annals of Oncology</i> , 1996, 7, 47-53.	0.6	56
106	Experimental 3D dosimetry around a high-dose-rate clinical <sup>192</sup> Ir source using a polyacrylamide gel (PAG) dosimeter. <i>Physics in Medicine and Biology</i> , 1999, 44, 2431-2444.	1.6	56
107	In vivo <sup>31</sup> P MR spectral patterns and reproducibility in cancer patients studied in a multi-institutional trial. <i>NMR in Biomedicine</i> , 2006, 19, 504-512.	1.6	56
108	MRiW: parametric analysis software for contrast-enhanced dynamic MR imaging in cancer.. <i>Radiographics</i> , 1998, 18, 497-506.	1.4	55

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109	Imaging biochemistry: applications to breast cancer. <i>Breast Cancer Research</i> , 2000, 3, 36-40.	2.2	55
110	Extended T2-IVIM model for correction of TE dependence of pseudo-diffusion volume fraction in clinical diffusion-weighted magnetic resonance imaging. <i>Physics in Medicine and Biology</i> , 2016, 61, N667-N680.	1.6	54
111	Early <i>in vivo</i> detection of metabolic response: a pilot study of <sup>1</sup> H MR spectroscopy in extracranial lymphoma and germ cell tumours. <i>British Journal of Radiology</i> , 2002, 75, 959-966.	1.0	53
112	Evaluation of radiological features for breast tumour classification in clinical screening with machine learning methods. <i>Artificial Intelligence in Medicine</i> , 2005, 34, 129-139.	3.8	53
113	Reproducibility of reference tissue quantification of dynamic contrast-enhanced data: comparison with a fixed vascular input function. <i>Physics in Medicine and Biology</i> , 2007, 52, 75-89.	1.6	52
114	Baseline results from the UK SIGNIFY study: a whole-body MRI screening study in TP53 mutation carriers and matched controls. <i>Familial Cancer</i> , 2017, 16, 433-440.	0.9	52
115	Vascular occlusion using focused ultrasound surgery for use in fetal medicine. <i>European Journal of Ultrasound: Official Journal of the European Federation of Societies for Ultrasound in Medicine and Biology</i> , 1999, 9, 89-97.	1.4	51
116	Advanced Solid Tumors Treated with Cediranib: Comparison of Dynamic Contrast-enhanced MR Imaging and CT as Markers of Vascular Activity. <i>Radiology</i> , 2012, 265, 426-436.	3.6	51
117	Volume of Bone Metastasis Assessed with Whole-Body Diffusion-weighted Imaging Is Associated with Overall Survival in Metastatic Castration-resistant Prostate Cancer. <i>Radiology</i> , 2016, 280, 151-160.	3.6	51
118	Magnetic resonance detects metabolic changes associated with chemotherapy-induced apoptosis. <i>British Journal of Cancer</i> , 1999, 80, 1035-1041.	2.9	50
119	High-resolution segmented EPI in a motor task fMRI study. <i>Magnetic Resonance Imaging</i> , 2000, 18, 405-409.	1.0	49
120	Constrained deconvolution of SPECT liver tomograms by direct digital image restoration. <i>Medical Physics</i> , 1985, 12, 53-58.	1.6	48
121	Influence of pH on the uptake of 5-fluorouracil into isolated tumour cells. <i>British Journal of Cancer</i> , 1998, 77, 873-879.	2.9	48
122	Dynamic MRI for imaging tumor microvasculature: Comparison of susceptibility and relaxivity techniques in pelvic tumors. <i>Journal of Magnetic Resonance Imaging</i> , 2007, 25, 796-805.	1.9	48
123	A quantitative analysis of the accuracy of <i>in vivo</i> pH measurements with <sup>31</sup> P NMR spectroscopy: Assessment of pH measurement methodology. <i>NMR in Biomedicine</i> , 1991, 4, 1-11.	1.6	47
124	Carbogen breathing increases 5-fluorouracil uptake and cytotoxicity in hypoxic murine RIF-1 tumors: a magnetic resonance study <i>in vivo</i> . <i>Cancer Research</i> , 1998, 58, 1185-94.	0.4	46
125	Quality assessment in <i>in vivo</i> NMR spectroscopy: III. Clinical test objects: Design, construction, and solutions. <i>Magnetic Resonance Imaging</i> , 1995, 13, 131-137.	1.0	45
126	Extracranial Soft-Tissue Tumors: Repeatability of Apparent Diffusion Coefficient Estimates from Diffusion-weighted MR Imaging. <i>Radiology</i> , 2017, 284, 88-99.	3.6	45



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127	Could assessment of glioma methylene lipid resonance by in vivo <sup>1</sup> H-MRS be of clinical value?. British Journal of Radiology, 2003, 76, 459-463.	1.0	44
128	Measurement of radiation dose to the thyroid using positron emission tomography. British Journal of Radiology, 1987, 60, 245-251.	1.0	43
129	Phospholipid metabolites, prognosis and proliferation in human breast carcinoma. NMR in Biomedicine, 1993, 6, 318-323.	1.6	43
130	Implications of respiratory motion for the quantification of 2D MR spectroscopic imaging data in the abdomen. Physics in Medicine and Biology, 2000, 45, 2105-2116.	1.6	43
131	The BRAF Inhibitor Vemurafenib Activates Mitochondrial Metabolism and Inhibits Hyperpolarized Pyruvate- <sup>13</sup> C Lactate Exchange in BRAF-Mutant Human Melanoma Cells. Molecular Cancer Therapeutics, 2016, 15, 2987-2999.	1.9	43
132	A generalized framework unifying image registration and respiratory motion models and incorporating image reconstruction, for partial image data or full images. Physics in Medicine and Biology, 2017, 62, 4273-4292.	1.6	43
133	Quality assessment in in vivo NMR spectroscopy: IV. A multicentre trial of test objects and protocols for performance assessment in clinical NMR spectroscopy. Magnetic Resonance Imaging, 1995, 13, 139-157.	1.0	41
134	In Vivo Multiple Spin Echoes. Journal of Magnetic Resonance, 1998, 135, 30-36.	1.2	41
135	Preclinical development of noninvasive vascular occlusion with focused ultrasonic surgery for fetal therapy. American Journal of Obstetrics and Gynecology, 2000, 182, 387-392.	0.7	41
136	Processing of radical prostatectomy specimens for correlation of data from histopathological, molecular biological, and radiological studies: a new whole organ technique. Journal of Clinical Pathology, 2005, 58, 504-508.	1.0	41
137	Noninvasive Magnetic Resonance Spectroscopic Pharmacodynamic Markers of a Novel Histone Deacetylase Inhibitor, LAQ824, in Human Colon Carcinoma Cells and Xenografts. Neoplasia, 2008, 10, 303-313.	2.3	41
138	Fast and accurate measurements of T1 using a multi-readout single inversion-recovery sequence. Magnetic Resonance in Medicine, 1992, 26, 79-88.	1.9	40
139	Improving image quality and T1 measurements using saturation recovery turboFLASH with an approximate K-space normalisation filter. Magnetic Resonance Imaging, 2000, 18, 157-167.	1.0	40
140	Dynamic contrast-enhanced MRI of neuroendocrine hepatic metastases: A feasibility study using a dual-input two-compartment model. Magnetic Resonance in Medicine, 2011, 65, 250-260.	1.9	40
141	Neuroendocrine Tumor Liver Metastases: Use of Dynamic Contrast-enhanced MR Imaging to Monitor and Predict Radiolabeled Octreotide Therapy Response. Radiology, 2012, 263, 139-148.	3.6	40
142	MEK1/2 Inhibition Decreases Lactate in BRAF-Driven Human Cancer Cells. Cancer Research, 2013, 73, 4039-4049.	0.4	40
143	Inter- and Intra-Observer Repeatability of Quantitative Whole-Body, Diffusion-Weighted Imaging (WBDWI) in Metastatic Bone Disease. PLoS ONE, 2016, 11, e0153840.	1.1	40
144	Repeatability of derived parameters from histograms following non-Gaussian diffusion modelling of diffusion-weighted imaging in a paediatric oncological cohort. European Radiology, 2017, 27, 345-353.	2.3	40

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145	A phase I study of SR-4554 via intravenous administration for noninvasive investigation of tumor hypoxia by magnetic resonance spectroscopy in patients with malignancy. <i>Clinical Cancer Research</i> , 2003, 9, 5101-12.	3.2	40
146	Clinical dosimetry for radiotherapy to the breast based on imaging with the prototype Royal Marsden Hospital CT simulator. <i>Physics in Medicine and Biology</i> , 1987, 32, 835-845.	1.6	39
147	A simple method for the restoration of signal polarity in multi-image inversion recovery sequences for measuring T1. <i>Magnetic Resonance in Medicine</i> , 1991, 18, 224-231.	1.9	39
148	Quantitative mapping of hepatic perfusion index using MR imaging: a potential reproducible tool for assessing tumour response to treatment with the antiangiogenic compound BIBF 1120, a potent triple angiokinase inhibitor. <i>European Radiology</i> , 2008, 18, 1414-1421.	2.3	39
149	Optimized MR imaging for polyacrylamide gel dosimetry. <i>Physics in Medicine and Biology</i> , 2000, 45, 847-858.	1.6	37
150	Electromagnetic field exposure limitation and the future of MRI. <i>British Journal of Radiology</i> , 2005, 78, 973-973.	1.0	37
151	Potential role of magnetic resonance spectroscopy in assessment of tumour response in childhood cancer. <i>European Journal of Cancer</i> , 2003, 39, 728-735.	1.3	36
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