

# Martin Leach

## List of Publications by Citations

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466  
ext. papers

26,321  
ext. citations

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6.34  
L-index

#	Paper	IF	Citations
4 <sup>26</sup>	Nonrigid registration using free-form deformations: application to breast MR images. <i>IEEE Transactions on Medical Imaging</i> , <b>1999</b> , 18, 712-21	11.7	3492
4 <sup>25</sup>	American Cancer Society guidelines for breast screening with MRI as an adjunct to mammography. <i>Ca-A Cancer Journal for Clinicians</i> , <b>2007</b> , 57, 75-89	220.7	1803
4 <sup>24</sup>	Screening with magnetic resonance imaging and mammography of a UK population at high familial risk of breast cancer: a prospective multicentre cohort study (MARIBS). <i>Lancet, The</i> , <b>2005</b> , 365, 1769-78	4 <sup>0</sup>	786
4 <sup>23</sup>	Analysis of cancer metabolism by imaging hyperpolarized nuclei: prospects for translation to clinical research. <i>Neoplasia</i> , <b>2011</b> , 13, 81-97	6.4	570
4 <sup>22</sup>	Imaging biomarker roadmap for cancer studies. <i>Nature Reviews Clinical Oncology</i> , <b>2017</b> , 14, 169-186	19.4	532
4 <sup>21</sup>	The assessment of antiangiogenic and antivascular therapies in early-stage clinical trials using magnetic resonance imaging: issues and recommendations. <i>British Journal of Cancer</i> , <b>2005</b> , 92, 1599-610	8.7	443
4 <sup>20</sup>	Clinical proton MR spectroscopy in central nervous system disorders. <i>Radiology</i> , <b>2014</b> , 270, 658-79	20.5	381
4 <sup>19</sup>	Stacked autoencoders for unsupervised feature learning and multiple organ detection in a pilot study using 4D patient data. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2013</b> , 35, 1930-43	13.3	351
4 <sup>18</sup>	Predicting response of colorectal hepatic metastasis: value of pretreatment apparent diffusion coefficients. <i>American Journal of Roentgenology</i> , <b>2007</b> , 188, 1001-8	5.4	290
4 <sup>17</sup>	Dynamic contrast enhanced MRI of prostate cancer: correlation with morphology and tumour stage, histological grade and PSA. <i>Clinical Radiology</i> , <b>2000</b> , 55, 99-109	2.9	279
4 <sup>16</sup>	Radiotherapy treatment planning of prostate cancer using magnetic resonance imaging alone. <i>Radiotherapy and Oncology</i> , <b>2003</b> , 66, 203-16	5.3	276
4 <sup>15</sup>	Critical research gaps and translational priorities for the successful prevention and treatment of breast cancer. <i>Breast Cancer Research</i> , <b>2013</b> , 15, R92	8.3	248
4 <sup>14</sup>	Evaluating the effect of rectal distension and rectal movement on prostate gland position using cine MRI. <i>International Journal of Radiation Oncology Biology Physics</i> , <b>1999</b> , 44, 525-33	4	238
4 <sup>13</sup>	Assessing changes in tumour vascular function using dynamic contrast-enhanced magnetic resonance imaging. <i>NMR in Biomedicine</i> , <b>2002</b> , 15, 154-63	4.4	234
4 <sup>12</sup>	Measurement reproducibility of perfusion fraction and pseudodiffusion coefficient derived by intravoxel incoherent motion diffusion-weighted MR imaging in normal liver and metastases. <i>European Radiology</i> , <b>2013</b> , 23, 428-34	8	217
4 <sup>11</sup>	Prediction of clinicopathologic response of breast cancer to primary chemotherapy at contrast-enhanced MR imaging: initial clinical results. <i>Radiology</i> , <b>2006</b> , 239, 361-74	20.5	209
4 <sup>10</sup>	Magnetic resonance imaging (MRI): considerations and applications in radiotherapy treatment planning. <i>Radiotherapy and Oncology</i> , <b>1997</b> , 42, 1-15	5.3	206

409	Validation of nonrigid image registration using finite-element methods: application to breast MR images. <i>IEEE Transactions on Medical Imaging</i> , <b>2003</b> , 22, 238-47	11.7	188
408	Measurement of the extracellular pH of solid tumours in mice by magnetic resonance spectroscopy: a comparison of exogenous (19)F and (31)P probes. <i>NMR in Biomedicine</i> , <b>1999</b> , 12, 495-504	4.4	188
407	Probing tumor microvasculature by measurement, analysis and display of contrast agent uptake kinetics. <i>Journal of Magnetic Resonance Imaging</i> , <b>1997</b> , 7, 564-74	5.6	181
406	A complete distortion correction for MR images: I. Gradient warp correction. <i>Physics in Medicine and Biology</i> , <b>2005</b> , 50, 1343-61	3.8	177
405	Phase I trial of a selective c-MET inhibitor ARQ 197 incorporating proof of mechanism pharmacodynamic studies. <i>Journal of Clinical Oncology</i> , <b>2011</b> , 29, 1271-9	2.2	174
404	Reproducibility of quantitative dynamic MRI of normal human tissues. <i>NMR in Biomedicine</i> , <b>2002</b> , 15, 143-53	4.4	169
403	Minimally invasive pharmacokinetic and pharmacodynamic technologies in hypothesis-testing clinical trials of innovative therapies. <i>Journal of the National Cancer Institute</i> , <b>2006</b> , 98, 580-98	9.7	167
402	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> , <b>2009</b> , 19, 2728-38	8	141
401	Phase I trial of combretastatin A4 phosphate (CA4P) in combination with bevacizumab in patients with advanced cancer. <i>Clinical Cancer Research</i> , <b>2012</b> , 18, 3428-39	12.9	141
400	Methodological consensus on clinical proton MRS of the brain: Review and recommendations. <i>Magnetic Resonance in Medicine</i> , <b>2019</b> , 82, 527-550	4.4	134
399	Whole-body diffusion-weighted MRI: tips, tricks, and pitfalls. <i>American Journal of Roentgenology</i> , <b>2012</b> , 199, 252-62	5.4	130
398	Effects of androgen deprivation on prostatic morphology and vascular permeability evaluated with mr imaging. <i>Radiology</i> , <b>2001</b> , 218, 365-74	20.5	130
397	Detection of colorectal hepatic metastases using MnDPDP MR imaging and diffusion-weighted imaging (DWI) alone and in combination. <i>European Radiology</i> , <b>2008</b> , 18, 903-10	8	128
396	Noninvasive magnetic resonance spectroscopic pharmacodynamic markers of the choline kinase inhibitor MN58b in human carcinoma models. <i>Cancer Research</i> , <b>2006</b> , 66, 427-34	10.1	125
395	Imaging vascular function for early stage clinical trials using dynamic contrast-enhanced magnetic resonance imaging. <i>European Radiology</i> , <b>2012</b> , 22, 1451-64	8	124
394	Multi-centre reproducibility of diffusion MRI parameters for clinical sequences in the brain. <i>NMR in Biomedicine</i> , <b>2015</b> , 28, 468-85	4.4	123
393	Model free approach to kinetic analysis of real-time hyperpolarized 13C magnetic resonance spectroscopy data. <i>PLoS ONE</i> , <b>2013</b> , 8, e71996	3.7	116
392	Computed diffusion-weighted MR imaging may improve tumor detection. <i>Radiology</i> , <b>2011</b> , 261, 573-81	20.5	115

391	Measurements of human breast cancer using magnetic resonance spectroscopy: a review of clinical measurements and a report of localized 31P measurements of response to treatment. <i>NMR in Biomedicine</i> , <b>1998</b> , 11, 314-40	4.4	114
390	An investigation into the dosimetry of a nine-field tomotherapy irradiation using BANG-gel dosimetry. <i>Physics in Medicine and Biology</i> , <b>1998</b> , 43, 1113-32	3.8	113
389	Colorectal hepatic metastases: quantitative measurements using single-shot echo-planar diffusion-weighted MR imaging. <i>European Radiology</i> , <b>2006</b> , 16, 1898-905	8	110
388	Assessment of antiangiogenic and antivascular therapeutics using MRI: recommendations for appropriate methodology for clinical trials. <i>British Journal of Radiology</i> , <b>2003</b> , 76 Spec No 1, S87-91	3.4	109
387	Antivascular cancer treatments: functional assessments by dynamic contrast-enhanced magnetic resonance imaging. <i>Abdominal Imaging</i> , <b>2005</b> , 30, 324-41		108
386	MRI breast screening in high-risk women: cancer detection and survival analysis. <i>Breast Cancer Research and Treatment</i> , <b>2014</b> , 145, 663-72	4.4	105
385	Therapeutic target metabolism observed using hyperpolarized 15N choline. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 4598-9	16.4	104
384	Evaluation of response to treatment using DCE-MRI: the relationship between initial area under the gadolinium curve (IAUGC) and quantitative pharmacokinetic analysis. <i>Physics in Medicine and Biology</i> , <b>2006</b> , 51, 3593-602	3.8	101
383	Computationally efficient vascular input function models for quantitative kinetic modelling using DCE-MRI. <i>Physics in Medicine and Biology</i> , <b>2008</b> , 53, 1225-39	3.8	100
382	Radiation dosimetry using polymer gels: methods and applications. <i>British Journal of Radiology</i> , <b>2000</b> , 73, 919-29	3.4	100
381	Apoptosis is associated with triacylglycerol accumulation in Jurkat T-cells. <i>British Journal of Cancer</i> , <b>2002</b> , 86, 963-70	8.7	95
380	Improving calibration accuracy in gel dosimetry. <i>Physics in Medicine and Biology</i> , <b>1998</b> , 43, 2709-20	3.8	95
379	Cost-effectiveness of screening with contrast enhanced magnetic resonance imaging vs X-ray mammography of women at a high familial risk of breast cancer. <i>British Journal of Cancer</i> , <b>2006</b> , 95, 801-10	8.7	94
378	Improved intravoxel incoherent motion analysis of diffusion weighted imaging by data driven Bayesian modeling. <i>Magnetic Resonance in Medicine</i> , <b>2014</b> , 71, 411-20	4.4	93
377	Hyperpolarized 129Xe NMR as a probe for blood oxygenation. <i>Magnetic Resonance in Medicine</i> , <b>2000</b> , 43, 491-6	4.4	93
376	Common breast cancer susceptibility variants in LSP1 and RAD51L1 are associated with mammographic density measures that predict breast cancer risk. <i>Cancer Epidemiology Biomarkers and Prevention</i> , <b>2012</b> , 21, 1156-66	4	92
375	Magnetic resonance imaging screening in women at genetic risk of breast cancer: imaging and analysis protocol for the UK multicentre study. UK MRI Breast Screening Study Advisory Group. <i>Magnetic Resonance Imaging</i> , <b>2000</b> , 18, 765-76	3.3	92
374	Reading protocol for dynamic contrast-enhanced MR images of the breast: sensitivity and specificity analysis. <i>Radiology</i> , <b>2005</b> , 236, 779-88	20.5	90

373	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> , <b>1998</b> , 16, 1093-106	3.3	88
372	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. <i>PLoS ONE</i> , <b>2014</b> , 9, e91779	3.7	87
371	Comparison and evaluation of rigid, affine, and nonrigid registration of breast MR images. <i>Journal of Computer Assisted Tomography</i> , <b>1999</b> , 23, 800-5	2.2	87
370	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> , <b>2003</b> , 95, 1624-33	9.7	86
369	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> , <b>2007</b> , 13, 7357-62	12.9	85
368	Factors influencing the accuracy of biomechanical breast models. <i>Medical Physics</i> , <b>2006</b> , 33, 1758-69	4.4	83
367	Monitoring temozolomide treatment of low-grade glioma with proton magnetic resonance spectroscopy. <i>British Journal of Cancer</i> , <b>2004</b> , 90, 781-6	8.7	83
366	Dynamic contrast-enhanced MRI for prostate cancer localization. <i>British Journal of Radiology</i> , <b>2009</b> , 82, 148-56	3.4	82
365	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> , <b>2006</b> , 5, 187-96	6.1	81
364	Quantitative imaging biomarkers in neuro-oncology. <i>Nature Reviews Clinical Oncology</i> , <b>2009</b> , 6, 445-54	19.4	79
363	Registration of dynamic contrast-enhanced MRI using a progressive principal component registration (PPCR). <i>Physics in Medicine and Biology</i> , <b>2007</b> , 52, 5147-56	3.8	78
362	Applications of magnetic resonance spectroscopy in radiotherapy treatment planning. <i>British Journal of Radiology</i> , <b>2006</b> , 79 Spec No 1, S16-26	3.4	78
361	RA-02DIFFUSION-WEIGHTED AND DYNAMIC CONTRAST-ENHANCED MAGNETIC RESONANCE IMAGING AS MARKERS OF CLINICAL BEHAVIOUR IN PAEDIATRIC HIGH GRADE GLIOMAS. <i>Neuro-Oncology</i> , <b>2016</b> , 18, iii165.1-iii165	1	78
360	MRI study of hepatic tumours following high intensity focused ultrasound surgery. <i>British Journal of Radiology</i> , <b>1997</b> , 70, 144-53	3.4	75
359	Magnetic resonance spectroscopy monitoring of mitogen-activated protein kinase signaling inhibition. <i>Cancer Research</i> , <b>2005</b> , 65, 3356-63	10.1	75
358	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> , <b>2005</b> , 50, 2651-61	3.8	74
357	Informatics in Radiology (infoRAD): Magnetic Resonance Imaging Workbench: analysis and visualization of dynamic contrast-enhanced MR imaging data. <i>Radiographics</i> , <b>2006</b> , 26, 621-32	5.4	73
356	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> , <b>1999</b> , 10, 945-9	5.6	73

355	Differences in natural history between breast cancers in BRCA1 and BRCA2 mutation carriers and effects of MRI screening-MRISC, MARIBS, and Canadian studies combined. <i>Cancer Epidemiology Biomarkers and Prevention</i> , <b>2012</b> , 21, 1458-68	4	72
354	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> , <b>2009</b> , 74, 29-37	4	71
353	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> , <b>2009</b> , 11, R80	8.3	70
352	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> , <b>2016</b> , 114, 631-7	8.7	69
351	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> , <b>2008</b> , 17, 2268-74	4	68
350	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> , <b>2005</b> , 93, 876-83	8.7	68
349	The phosphocholine and glycerophosphocholine content of an oestrogen-sensitive rat mammary tumour correlates strongly with growth rate. <i>British Journal of Cancer</i> , <b>1991</b> , 64, 821-6	8.7	67
348	Metabolic assessment of the action of targeted cancer therapeutics using magnetic resonance spectroscopy. <i>British Journal of Cancer</i> , <b>2010</b> , 102, 1-7	8.7	64
347	Comparison of MRI with CT for the radiotherapy planning of prostate cancer: a feasibility study. <i>British Journal of Radiology</i> , <b>1999</b> , 72, 590-7	3.4	64
346	Magnetic resonance detects changes in phosphocholine associated with Ras activation and inhibition in NIH 3T3 cells. <i>British Journal of Cancer</i> , <b>2001</b> , 84, 691-6	8.7	63
345	MCT1 Inhibitor AZD3965 Increases Mitochondrial Metabolism, Facilitating Combination Therapy and Noninvasive Magnetic Resonance Spectroscopy. <i>Cancer Research</i> , <b>2017</b> , 77, 5913-5924	10.1	61
344	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> , <b>2014</b> , 20, 5672-85	12.9	61
343	Dynamics of polymerization in polyacrylamide gel (PAG) dosimeters: (II) modeling oxygen diffusion. <i>Physics in Medicine and Biology</i> , <b>1999</b> , 44, 1875-84	3.8	61
342	In-vivo <sup>31</sup> P magnetic resonance spectroscopy for monitoring treatment response in breast cancer. <i>Lancet, The</i> , <b>1989</b> , 1, 1326-7	4.0	61
341	Applications of sliding window reconstruction with cartesian sampling for dynamic contrast enhanced MRI. <i>NMR in Biomedicine</i> , <b>2002</b> , 15, 174-83	4.4	60
340	The phosphoinositide 3-kinase inhibitor PI-103 downregulates choline kinase alpha leading to phosphocholine and total choline decrease detected by magnetic resonance spectroscopy. <i>Cancer Research</i> , <b>2010</b> , 70, 5507-17	10.1	58
339	Cancers in BRCA1 and BRCA2 carriers and in women at high risk for breast cancer: MR imaging and mammographic features. <i>Radiology</i> , <b>2009</b> , 252, 358-68	20.5	58
338	Developing a quality control protocol for diffusion imaging on a clinical MRI system. <i>Physics in Medicine and Biology</i> , <b>2004</b> , 49, 1409-22	3.8	58

337	Diffusion-weighted Imaging as a Treatment Response Biomarker for Evaluating Bone Metastases in Prostate Cancer: A Pilot Study. <i>Radiology</i> , <b>2017</b> , 283, 168-177	20.5	57
336	Perfluorocarbon emulsions as intravenous delivery media for hyperpolarized xenon. <i>Magnetic Resonance in Medicine</i> , <b>1999</b> , 41, 442-9	4.4	57
335	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> , <b>1991</b> , 63, 514-6	8.7	56
334	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> , <b>2014</b> , 39, 235-40	5.6	55
333	MRIW: parametric analysis software for contrast-enhanced dynamic MR imaging in cancer. <i>Radiographics</i> , <b>1998</b> , 18, 497-506	5.4	54
332	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> , <b>1999</b> , 96, 3664-9	11.5	54
331	Dynamics of polymerization in polyacrylamide gel (PAG) dosimeters: (I) ageing and long-term stability. <i>Physics in Medicine and Biology</i> , <b>1999</b> , 44, 1863-73	3.8	54
330	Magnetic resonance imaging improves breast screening sensitivity in BRCA mutation carriers age $\geq$ 50 years: evidence from an individual patient data meta-analysis. <i>Journal of Clinical Oncology</i> , <b>2015</b> , 33, 349-56	2.2	52
329	Dichloroacetate induces autophagy in colorectal cancer cells and tumours. <i>British Journal of Cancer</i> , <b>2014</b> , 111, 375-85	8.7	52
328	The non-invasive monitoring of low dose, infusional 5-fluorouracil and its modulation by interferon-alpha using in vivo <sup>19</sup> F magnetic resonance spectroscopy in patients with colorectal cancer: a pilot study. <i>Annals of Oncology</i> , <b>1993</b> , 4, 597-602	10.3	52
327	The reproducibility of polyacrylamide gel dosimetry applied to stereotactic conformal radiotherapy. <i>Physics in Medicine and Biology</i> , <b>2000</b> , 45, 1195-210	3.8	51
326	Functional imaging in adult and paediatric brain tumours. <i>Nature Reviews Clinical Oncology</i> , <b>2012</b> , 9, 700-714	11.4	50
325	Radiotherapy planning of the pelvis using distortion corrected MR images: the removal of system distortions. <i>Physics in Medicine and Biology</i> , <b>2000</b> , 45, 2117-32	3.8	50
324	Application of magnetic resonance imaging to angiogenesis in breast cancer. <i>Breast Cancer Research</i> , <b>2001</b> , 3, 22-7	8.3	50
323	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> , <b>2006</b> , 19, 504-12	4.4	49
322	Reproducibility of reference tissue quantification of dynamic contrast-enhanced data: comparison with a fixed vascular input function. <i>Physics in Medicine and Biology</i> , <b>2007</b> , 52, 75-89	3.8	48
321	Imaging biochemistry: applications to breast cancer. <i>Breast Cancer Research</i> , <b>2001</b> , 3, 36-40	8.3	48
320	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> , <b>1999</b> , 44, 2431-44	3.8	48

319	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-alpha. <i>Annals of Oncology</i> , <b>1996</b> , 7, 47-53	10.3	47
318	Early in vivo 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> , <b>2002</b> , 75, 959-66	3.4	47
317	Advanced solid tumors treated with cediranib: comparison of dynamic contrast-enhanced MR imaging and CT as markers of vascular activity. <i>Radiology</i> , <b>2012</b> , 265, 426-36	20.5	45
316	Influence of pH on the uptake of 5-fluorouracil into isolated tumour cells. <i>British Journal of Cancer</i> , <b>1998</b> , 77, 873-9	8.7	45
315	Magnetic resonance detects metabolic changes associated with chemotherapy-induced apoptosis. <i>British Journal of Cancer</i> , <b>1999</b> , 80, 1035-41	8.7	45
314	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> , <b>1999</b> , 9, 89-97		44
313	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> , <b>2016</b> , 61, N667-N680	3.8	44
312	Dynamic MRI for imaging tumor microvasculature: comparison of susceptibility and relaxivity techniques in pelvic tumors. <i>Journal of Magnetic Resonance Imaging</i> , <b>2007</b> , 25, 796-805	5.6	43
311	Evaluation of radiological features for breast tumour classification in clinical screening with machine learning methods. <i>Artificial Intelligence in Medicine</i> , <b>2005</b> , 34, 129-39	7.4	43
310	Could assessment of glioma methylene lipid resonance by in vivo ( <sup>1</sup> H)-MRS be of clinical value?. <i>British Journal of Radiology</i> , <b>2003</b> , 76, 459-63	3.4	41
309	Baseline results from the UK SIGNIFY study: a whole-body MRI screening study in TP53 mutation carriers and matched controls. <i>Familial Cancer</i> , <b>2017</b> , 16, 433-440	3	39
308	High-resolution segmented EPI in a motor task fMRI study. <i>Magnetic Resonance Imaging</i> , <b>2000</b> , 18, 405-9	3.3	39
307	A quantitative analysis of the accuracy of in vivo pH measurements with <sup>31</sup> P NMR spectroscopy: assessment of pH measurement methodology. <i>NMR in Biomedicine</i> , <b>1991</b> , 4, 1-11	4.4	39
306	Constrained deconvolution of SPECT liver tomograms by direct digital image restoration. <i>Medical Physics</i> , <b>1985</b> , 12, 53-8	4.4	39
305	Carbogen breathing increases 5-fluorouracil uptake and cytotoxicity in hypoxic murine RIF-1 tumors: a magnetic resonance study in vivo. <i>Cancer Research</i> , <b>1998</b> , 58, 1185-94	10.1	39
304	Noninvasive magnetic resonance spectroscopic pharmacodynamic markers of a novel histone deacetylase inhibitor, LAQ824, in human colon carcinoma cells and xenografts. <i>Neoplasia</i> , <b>2008</b> , 10, 303-13	6.4	38
303	Processing of radical prostatectomy specimens for correlation of data from histopathological, molecular biological, and radiological studies: a new whole organ technique. <i>Journal of Clinical Pathology</i> , <b>2005</b> , 58, 504-8	3.9	38
302	Improving image quality and T(1) measurements using saturation recovery turboFLASH with an approximate K-space normalisation filter. <i>Magnetic Resonance Imaging</i> , <b>2000</b> , 18, 157-67	3.3	38



301	Preclinical development of noninvasive vascular occlusion with focused ultrasonic surgery for fetal therapy. <i>American Journal of Obstetrics and Gynecology</i> , <b>2000</b> , 182, 387-92	6.4	38
300	Quality assessment in in vivo NMR spectroscopy: III. Clinical test objects: design, construction, and solutions. <i>Magnetic Resonance Imaging</i> , <b>1995</b> , 13, 131-7	3.3	38
299	Quality assessment in in vivo NMR spectroscopy: IV. A multicentre trial of test objects and protocols for performance assessment in clinical NMR spectroscopy. <i>Magnetic Resonance Imaging</i> , <b>1995</b> , 13, 139-57	3.3	38
298	Phospholipid metabolites, prognosis and proliferation in human breast carcinoma. <i>NMR in Biomedicine</i> , <b>1993</b> , 6, 318-23	4.4	38
297	In vivo multiple spin echoes. <i>Journal of Magnetic Resonance</i> , <b>1998</b> , 135, 30-6	3	37
296	Implications of respiratory motion for the quantification of 2D MR spectroscopic imaging data in the abdomen. <i>Physics in Medicine and Biology</i> , <b>2000</b> , 45, 2105-16	3.8	37
295	A simple method for the restoration of signal polarity in multi-image inversion recovery sequences for measuring T1. <i>Magnetic Resonance in Medicine</i> , <b>1991</b> , 18, 224-31	4.4	37
294	Fast and accurate measurements of T1 using a multi-readout single inversion-recovery sequence. <i>Magnetic Resonance in Medicine</i> , <b>1992</b> , 26, 79-88	4.4	37
293	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> , <b>1987</b> , 32, 835-45	3.8	36
292	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> , <b>2016</b> , 280, 151-60	20.5	36
291	Hyperpolarized (13)C magnetic resonance detection of carboxypeptidase G2 activity. <i>Magnetic Resonance in Medicine</i> , <b>2009</b> , 62, 1300-4	4.4	35
290	Electromagnetic field exposure limitation and the future of MRI. <i>British Journal of Radiology</i> , <b>2005</b> , 78, 973	3.4	35
289	phosphatidylcholine synthesis is required for autophagosome membrane formation and maintenance during autophagy. <i>Autophagy</i> , <b>2020</b> , 16, 1044-1060	10.2	35
288	Dynamic contrast-enhanced MRI of neuroendocrine hepatic metastases: A feasibility study using a dual-input two-compartment model. <i>Magnetic Resonance in Medicine</i> , <b>2011</b> , 65, 250-60	4.4	34
287	Neuroendocrine tumor liver metastases: use of dynamic contrast-enhanced MR imaging to monitor and predict radiolabeled octreotide therapy response. <i>Radiology</i> , <b>2012</b> , 263, 139-48	20.5	34
286	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> , <b>2008</b> , 18, 1414-21	8	34
285	Extracranial Soft-Tissue Tumors: Repeatability of Apparent Diffusion Coefficient Estimates from Diffusion-weighted MR Imaging. <i>Radiology</i> , <b>2017</b> , 284, 88-99	20.5	33
284	MEK1/2 inhibition decreases lactate in BRAF-driven human cancer cells. <i>Cancer Research</i> , <b>2013</b> , 73, 4039-49	19.1	33

283	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> , <b>2003</b> , 9, 5101-12	12.9	33
282	Measuring diffusion of xenon in solution with hyperpolarized <sup>129</sup> Xe NMR. <i>Chemical Physics Letters</i> , <b>1998</b> , 296, 391-396	2.5	32
281	Measurement of radiation dose to the thyroid using positron emission tomography. <i>British Journal of Radiology</i> , <b>1987</b> , 60, 245-51	3.4	32
280	Repeatability of derived parameters from histograms following non-Gaussian diffusion modelling of diffusion-weighted imaging in a paediatric oncological cohort. <i>European Radiology</i> , <b>2017</b> , 27, 345-353	8	31
279	A phase I study of the nitroimidazole hypoxia marker SR4554 using <sup>19</sup> F magnetic resonance spectroscopy. <i>British Journal of Cancer</i> , <b>2009</b> , 101, 1860-8	8.7	31
278	The effect of Gd-DTPA on T(1)-weighted choline signal in human brain tumours. <i>Magnetic Resonance Imaging</i> , <b>2002</b> , 20, 127-30	3.3	31
277	Evaluating the diagnostic sensitivity of computed diffusion-weighted MR imaging in the detection of breast cancer. <i>Journal of Magnetic Resonance Imaging</i> , <b>2016</b> , 44, 130-7	5.6	31
276	Monocarboxylate transporter 1 blockade with AZD3965 inhibits lipid biosynthesis and increases tumour immune cell infiltration. <i>British Journal of Cancer</i> , <b>2020</b> , 122, 895-903	8.7	30
275	The BRAF Inhibitor Vemurafenib Activates Mitochondrial Metabolism and Inhibits Hyperpolarized Pyruvate-Lactate Exchange in BRAF-Mutant Human Melanoma Cells. <i>Molecular Cancer Therapeutics</i> , <b>2016</b> , 15, 2987-2999	6.1	30
274	Rapid development of image analysis research tools: Bridging the gap between researcher and clinician with pyOsiriX. <i>Computers in Biology and Medicine</i> , <b>2016</b> , 69, 203-12	7	30
273	Implementation and evaluation of frequency offset corrected inversion (FOCI) pulses on a clinical MR system. <i>Magnetic Resonance in Medicine</i> , <b>1997</b> , 38, 828-33	4.4	30
272	Reference tissue quantification of DCE-MRI data without a contrast agent calibration. <i>Physics in Medicine and Biology</i> , <b>2007</b> , 52, 589-601	3.8	30
271	Quantitative evaluation of free-form deformation registration for dynamic contrast-enhanced MR mammography. <i>Medical Physics</i> , <b>2007</b> , 34, 1221-33	4.4	30
270	Effects of platinum/taxane based chemotherapy on acute perfusion in human pelvic tumours measured by dynamic MRI. <i>British Journal of Cancer</i> , <b>2005</b> , 93, 979-85	8.7	30
269	Optimized MR imaging for polyacrylamide gel dosimetry. <i>Physics in Medicine and Biology</i> , <b>2000</b> , 45, 847-588	3.8	30
268	The effect of intra-tumour heterogeneity on the distribution of phosphorus-containing metabolites within human breast tumours: an in vitro study using <sup>31</sup> P NMR spectroscopy. <i>NMR in Biomedicine</i> , <b>1991</b> , 4, 262-7	4.4	30
267	Comparison of 5-fluorouracil pharmacokinetics following intraperitoneal and intravenous administration using in vivo <sup>19</sup> F magnetic resonance spectroscopy. <i>British Journal of Radiology</i> , <b>1990</b> , 63, 547-53	3.4	30
266	Inter- and Intra-Observer Repeatability of Quantitative Whole-Body, Diffusion-Weighted Imaging (WB DWI) in Metastatic Bone Disease. <i>PLoS ONE</i> , <b>2016</b> , 11, e0153840	3.7	30

265	Human rectal adenocarcinoma: demonstration of 1H-MR spectra in vivo at 1.5 T. <i>Magnetic Resonance in Medicine</i> , <b>2002</b> , 47, 809-11	4.4	29
264	Potential role of magnetic resonance spectroscopy in assessment of tumour response in childhood cancer. <i>European Journal of Cancer</i> , <b>2003</b> , 39, 728-35	7.5	29
263	Magnetic resonance spectroscopy in the evaluation of neurotoxicity following cranial irradiation for childhood cancer. <i>British Journal of Radiology</i> , <b>2000</b> , 73, 421-4	3.4	29
262	Diffusion-weighted MR imaging of metastatic abdominal and pelvic tumours is sensitive to early changes induced by a VEGF inhibitor using alternative diffusion attenuation models. <i>European Radiology</i> , <b>2016</b> , 26, 1412-9	8	28
261	Acting on incidental findings in research imaging. <i>BMJ, The</i> , <b>2015</b> , 351, h5190	5.9	28
260	The role of pre-treatment diffusion-weighted MRI in predicting long-term outcome of colorectal liver metastasis. <i>British Journal of Radiology</i> , <b>2013</b> , 86, 20130281	3.4	28
259	Increased tumour extracellular pH induced by Bafilomycin A1 inhibits tumour growth and mitosis in vivo and alters 5-fluorouracil pharmacokinetics. <i>European Journal of Cancer</i> , <b>2003</b> , 39, 532-40	7.5	28
258	On the oxygenation-dependent $(^{129}\text{Xe})$ T (1) in blood. <i>NMR in Biomedicine</i> , <b>2000</b> , 13, 234-7	4.4	28
257	Proton spectroscopic imaging of polyacrylamide gel dosimeters for absolute radiation dosimetry. <i>Physics in Medicine and Biology</i> , <b>2000</b> , 45, 835-45	3.8	28
256	Quality assessment in in vivo NMR spectroscopy: II. A protocol for quality assessment. EEC Concerted Research Project. <i>Magnetic Resonance Imaging</i> , <b>1995</b> , 13, 123-9	3.3	28
255	A generalized framework unifying image registration and respiratory motion models and incorporating image reconstruction, for partial image data or full images. <i>Physics in Medicine and Biology</i> , <b>2017</b> , 62, 4273-4292	3.8	27
254	Optimizing functional parameter accuracy for breath-hold DCE-MRI of liver tumours. <i>Physics in Medicine and Biology</i> , <b>2009</b> , 54, 2197-215	3.8	27
253	A pharmacokinetic and pharmacodynamic study in vivo of human HT29 tumours using $^{19}\text{F}$ and $^{31}\text{P}$ magnetic resonance spectroscopy. <i>European Journal of Cancer</i> , <b>1997</b> , 33, 2418-27	7.5	27
252	Evaluation of $^{31}\text{P}$ high-resolution magic angle spinning of intact tissue samples. <i>NMR in Biomedicine</i> , <b>2006</b> , 19, 593-8	4.4	27
251	Bayesian estimation of pharmacokinetic parameters for DCE-MRI with a robust treatment of enhancement onset time. <i>Physics in Medicine and Biology</i> , <b>2007</b> , 52, 2393-408	3.8	27
250	Dose resolution in gel dosimetry: effect of uncertainty in the calibration function. <i>Physics in Medicine and Biology</i> , <b>2004</b> , 49, N139-46	3.8	27
249	A phase II clinical and pharmacokinetic study of Lonidamine in patients with advanced breast cancer. <i>British Journal of Cancer</i> , <b>1991</b> , 64, 593-7	8.7	27
248	Validation of Non-rigid Registration Using Finite Element Methods. <i>Lecture Notes in Computer Science</i> , <b>2001</b> , 344-357	0.9	27

247	The use of gel dosimetry for verification of electron and photon treatment plans in carcinoma of the scalp. <i>Physics in Medicine and Biology</i> , <b>2004</b> , 49, 1625-35	3.8	26
246	Methodological standardization for a multi-institutional in vivo trial of localized 31P MR spectroscopy in human cancer research. In vitro and normal volunteer studies. <i>NMR in Biomedicine</i> , <b>2004</b> , 17, 382-91	4.4	26
245	Effects of Chronic Alcohol Consumption on the Broad Phospholipid Signal in Human Brain: An In Vivo 31P MRS Study. <i>Alcoholism: Clinical and Experimental Research</i> , <b>2001</b> , 25, 89-97	3.7	26
244	Pharmacokinetics of the 13C labeled anticancer agent temozolomide detected in vivo by selective cross-polarization transfer. <i>Magnetic Resonance in Medicine</i> , <b>1995</b> , 34, 338-42	4.4	26
243	Human gallbladder bile: noninvasive investigation in vivo with single-voxel 1H MR spectroscopy. <i>Radiology</i> , <b>2003</b> , 229, 587-92	20.5	25
242	In vivo hyperpolarized 129Xe NMR spectroscopy in tumors. <i>Magnetic Resonance in Medicine</i> , <b>2001</b> , 46, 586-91	4.4	25
241	In vivo monitoring of fluoropyrimidine metabolites: magnetic resonance spectroscopy in the evaluation of 5-fluorouracil. <i>Anti-Cancer Drugs</i> , <b>1994</b> , 5, 260-80	2.4	25
240	Noninvasive Imaging of Cycling Hypoxia in Head and Neck Cancer Using Intrinsic Susceptibility MRI. <i>Clinical Cancer Research</i> , <b>2017</b> , 23, 4233-4241	12.9	24
239	Measurements of occupational exposure to switched gradient and spatially-varying magnetic fields in areas adjacent to 1.5 T clinical MRI systems. <i>Journal of Magnetic Resonance Imaging</i> , <b>2007</b> , 26, 1346-52	5.6	24
238	Evaluation of a prospective scoring system designed for a multicenter breast MR imaging screening study. <i>Radiology</i> , <b>2006</b> , 239, 677-85	20.5	24
237	An algorithm for the optimum combination of data from arbitrary magnetic resonance phased array probes. <i>Physics in Medicine and Biology</i> , <b>2002</b> , 47, N39-46	3.8	24
236	Gallbladder localization of (19)F MRS catabolite signals in patients receiving bolus and protracted venous infusional 5-fluorouracil. <i>Magnetic Resonance in Medicine</i> , <b>2000</b> , 44, 516-20	4.4	24
235	Repeatability and sensitivity of T2* measurements in patients with head and neck squamous cell carcinoma at 3T. <i>Journal of Magnetic Resonance Imaging</i> , <b>2016</b> , 44, 72-80	5.6	24
234	Assessment of repeatability and treatment response in early phase clinical trials using DCE-MRI: comparison of parametric analysis using MR- and CT-derived arterial input functions. <i>European Radiology</i> , <b>2016</b> , 26, 1991-8	8	23
233	T2-Weighted 4D Magnetic Resonance Imaging for Application in Magnetic Resonance-Guided Radiotherapy Treatment Planning. <i>Investigative Radiology</i> , <b>2017</b> , 52, 563-573	10.1	23
232	Changes in choline metabolism as potential biomarkers of phospholipase C{gamma}1 inhibition in human prostate cancer cells. <i>Molecular Cancer Therapeutics</i> , <b>2009</b> , 8, 1305-11	6.1	23
231	Effects of residual single-quantum coherences in intermolecular multiple-quantum coherence studies. <i>Journal of Magnetic Resonance</i> , <b>2004</b> , 166, 215-27	3	23
230	Proton magnetic resonance spectroscopy ((1)H-MRS) of the brain following high-dose methotrexate treatment for childhood cancer. <i>Medical and Pediatric Oncology</i> , <b>2000</b> , 35, 28-34		23

229	A modified polymer gel for radiotherapy dosimetry: assessment by MRI and MRS. <i>Physics in Medicine and Biology</i> , <b>2000</b> , 45, 3213-23	3.8	23
228	Signal modulation in (1)H magnetic resonance spectroscopy using contrast agents: proton relaxivities of choline, creatine, and N-acetylaspartate. <i>Magnetic Resonance in Medicine</i> , <b>1999</b> , 42, 1155-8	4.4	23
227	Quantification of signal selection efficiency, extra volume suppression and contamination for ISIS, STEAM and PRESS localized 1H NMR spectroscopy using an EEC localization test object. <i>Physics in Medicine and Biology</i> , <b>1995</b> , 40, 1293-303	3.8	23
226	Demonstration of the reproducibility of free-breathing diffusion-weighted MRI and dynamic contrast enhanced MRI in children with solid tumours: a pilot study. <i>European Radiology</i> , <b>2015</b> , 25, 2641-50	8.0	22
225	Quantitative PET and SPECT performance characteristics of the Albira Trimodal pre-clinical tomograph. <i>Physics in Medicine and Biology</i> , <b>2014</b> , 59, 715-31	3.8	22
224	<sup>1</sup> H NMR and hyperpolarized <sup>13</sup> C NMR assays of pyruvate-lactate: a comparative study. <i>NMR in Biomedicine</i> , <b>2013</b> , 26, 1321-1325	4.4	22
223	Virtual conferences becoming a reality. <i>Nature Chemistry</i> , <b>2010</b> , 2, 148-52	17.6	22
222	Breast cancer screening in women at high risk using MRI. <i>NMR in Biomedicine</i> , <b>2009</b> , 22, 17-27	4.4	22
221	Histone deacetylase inhibition increases levels of choline kinase and phosphocholine facilitating noninvasive imaging in human cancers. <i>Cancer Research</i> , <b>2012</b> , 72, 990-1000	10.1	22
220	The use of an improved inversion pulse with the spin-echo/inversion-recovery sequence to give increased accuracy and reduced imaging time for T1 measurements. <i>Magnetic Resonance in Medicine</i> , <b>1989</b> , 12, 261-7	4.4	22
219	A comparison of attenuation correction methods for quantitative single photon emission computed tomography. <i>Physics in Medicine and Biology</i> , <b>1983</b> , 28, 1045-56	3.8	22
218	Pseudoprogression in children, adolescents and young adults with non-brainstem high grade glioma and diffuse intrinsic pontine glioma. <i>Journal of Neuro-Oncology</i> , <b>2016</b> , 129, 109-21	4.8	22
217	Changes in multimodality functional imaging parameters early during chemoradiation predict treatment response in patients with locally advanced head and neck cancer. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , <b>2018</b> , 45, 759-767	8.8	22
216	Acute tumour response to the MEK1/2 inhibitor selumetinib (AZD6244, ARRY-142886) evaluated by non-invasive diffusion-weighted MRI. <i>British Journal of Cancer</i> , <b>2013</b> , 109, 1562-9	8.7	21
215	First-in-human phase I trial of two schedules of OSI-930, a novel multikinase inhibitor, incorporating translational proof-of-mechanism studies. <i>Clinical Cancer Research</i> , <b>2013</b> , 19, 909-19	12.9	21
214	Exploiting tumor metabolism for non-invasive imaging of the therapeutic activity of molecularly targeted anticancer agents. <i>Cell Cycle</i> , <b>2011</b> , 10, 2883-93	4.7	21
213	Localized COSY and DQF-COSY 1H-MRS sequences for investigating human tibial bone marrow in vivo and initial application to patients with acute leukemia. <i>Journal of Magnetic Resonance Imaging</i> , <b>2005</b> , 22, 541-8	5.6	21
212	Intravenous delivery of hyperpolarized (129)Xe: a compartmental model. <i>NMR in Biomedicine</i> , <b>2000</b> , 13, 238-44	4.4	21

211	Protocol for a national multi-centre study of magnetic resonance imaging screening in women at genetic risk of breast cancer. <i>Breast</i> , <b>2000</b> , 9, 78-82	3.6	21
210	Conformal NMR spectroscopy: accurate localization to noncuboidal volumes with optimum SNR. <i>Magnetic Resonance in Medicine</i> , <b>1989</b> , 11, 376-88	4.4	21
209	Lactate and choline metabolites detected in vitro by nuclear magnetic resonance spectroscopy are potential metabolic biomarkers for PI3K inhibition in pediatric glioblastoma. <i>PLoS ONE</i> , <b>2014</b> , 9, e103835	3.7	21
208	Modulation of melanoma cell phospholipid metabolism in response to heat shock protein 90 inhibition. <i>Oncotarget</i> , <b>2010</b> , 1, 185-97	3.3	21
207	Quantitative Contrast-Enhanced Magnetic Resonance Lymphangiography of the Upper Limbs in Breast Cancer Related Lymphedema: An Exploratory Study. <i>Lymphatic Research and Biology</i> , <b>2015</b> , 13, 100-6	2.3	20
206	Response evaluation in mesothelioma: Beyond RECIST. <i>Lung Cancer</i> , <b>2015</b> , 90, 433-41	5.9	20
205	Comparison of three reference methods for the measurement of intracellular pH using 31P MRS in healthy volunteers and patients with lymphoma. <i>NMR in Biomedicine</i> , <b>2014</b> , 27, 158-62	4.4	20
204	Motion artifact correction in free-breathing abdominal MRI using overlapping partial samples to recover image deformations. <i>Magnetic Resonance in Medicine</i> , <b>2009</b> , 62, 440-9	4.4	20
203	EU Directive 2004/40: field measurements of a 1.5 T clinical MR scanner. <i>British Journal of Radiology</i> , <b>2007</b> , 80, 483-7	3.4	20
202	Image fusion for dynamic contrast enhanced magnetic resonance imaging. <i>BioMedical Engineering OnLine</i> , <b>2004</b> , 3, 35	4.1	20
201	Hyperpolarising 13C for NMR studies using laser-polarised 129Xe: SPINOE vs thermal mixing. <i>Chemical Physics Letters</i> , <b>2003</b> , 371, 640-644	2.5	20
200	Development of a temperature-controlled phantom for magnetic resonance quality assurance of diffusion, dynamic, and relaxometry measurements. <i>Medical Physics</i> , <b>2016</b> , 43, 2998-3007	4.4	20
199	Acquired resistance to EGFR tyrosine kinase inhibitors alters the metabolism of human head and neck squamous carcinoma cells and xenograft tumours. <i>British Journal of Cancer</i> , <b>2015</b> , 112, 1206-14	8.7	19
198	Distortion-corrected T2 weighted MRI: a novel approach to prostate radiotherapy planning. <i>British Journal of Radiology</i> , <b>2007</b> , 80, 926-33	3.4	19
197	Accuracy of screening women at familial risk of breast cancer without a known gene mutation: Individual patient data meta-analysis. <i>European Journal of Cancer</i> , <b>2017</b> , 85, 31-38	7.5	18
196	Diffusion-weighted MR neurography for the assessment of brachial plexopathy in oncological practice. <i>Cancer Imaging</i> , <b>2015</b> , 15, 6	5.6	18
195	Psychological impact and acceptability of magnetic resonance imaging and X-ray mammography: the MARIBS Study. <i>British Journal of Cancer</i> , <b>2011</b> , 104, 578-86	8.7	18
194	Modulating the relaxivity of hyperpolarized substrates with gadolinium contrast agents. <i>Contrast Media and Molecular Imaging</i> , <b>2009</b> , 4, 143-7	3.2	18

193	The value of magnetic resonance spectroscopy in tumour imaging. <i>Archives of Disease in Childhood</i> , <b>2008</b> , 93, 725-7	2.2	18
192	What is the recall rate of breast MRI when used for screening asymptomatic women at high risk?. <i>Magnetic Resonance Imaging</i> , <b>2002</b> , 20, 557-65	3.3	18
191	Effects of Abstinence From Alcohol on the Broad Phospholipid Signal in Human Brain: An In Vivo 31P Magnetic Resonance Spectroscopy Study. <i>Alcoholism: Clinical and Experimental Research</i> , <b>2001</b> , 25, 1213-1220	3.7	18
190	A computerized volumetric segmentation method applicable to multi-centre MRI data to support computer-aided breast tissue analysis, density assessment and lesion localization. <i>Medical and Biological Engineering and Computing</i> , <b>2017</b> , 55, 57-68	3.1	17
189	Reduced Warburg effect in cancer cells undergoing autophagy: steady- state 1H-MRS and real-time hyperpolarized 13C-MRS studies. <i>PLoS ONE</i> , <b>2014</b> , 9, e92645	3.7	17
188	Assessment of the effect of haematocrit-dependent arterial input functions on the accuracy of pharmacokinetic parameters in dynamic contrast-enhanced MRI. <i>NMR in Biomedicine</i> , <b>2011</b> , 24, 902-15	4.4	17
187	Parametric mapping of the hepatic perfusion index with gadolinium-enhanced volumetric MRI. <i>British Journal of Radiology</i> , <b>2007</b> , 80, 113-20	3.4	17
186	Application of the chirp z-transform to MRI data. <i>Journal of Magnetic Resonance</i> , <b>2006</b> , 178, 121-8	3	17
185	Polymer gel measurement of dose homogeneity in the breast: comparing MLC intensity modulation with standard wedged delivery. <i>Physics in Medicine and Biology</i> , <b>2003</b> , 48, 1065-74	3.8	17
184	Blood transfusion during radical chemo-radiotherapy does not reduce tumour hypoxia in squamous cell cancer of the head and neck. <i>British Journal of Cancer</i> , <b>2017</b> , 116, 28-35	8.7	16
183	Modulation of choline kinase activity in human cancer cells observed by dynamic 31P NMR. <i>NMR in Biomedicine</i> , <b>2009</b> , 22, 456-61	4.4	16
182	Informatics in radiology: development of a research PACS for analysis of functional imaging data in clinical research and clinical trials. <i>Radiographics</i> , <b>2012</b> , 32, 2135-50	5.4	16
181	Quantification of phosphorus metabolites in human calf muscle and soft-tissue tumours from localized MR spectra acquired using surface coils. <i>Physics in Medicine and Biology</i> , <b>1997</b> , 42, 691-706	3.8	16
180	Absolute metabolite quantification by in vivo NMR spectroscopy: I. Introduction, objectives and activities of a concerted action in biomedical research. <i>Magnetic Resonance Imaging</i> , <b>1998</b> , 16, 1085-92	3.3	16
179	Comparison of polarization transfer sequences for enhancement of signals in clinical 31P MRS studies. <i>Magnetic Resonance in Medicine</i> , <b>2003</b> , 50, 578-88	4.4	16
178	Comparison of biomechanical breast models: a case study <b>2002</b> ,		16
177	Comparison between radiological and artificial neural network diagnosis in clinical screening. <i>Physiological Measurement</i> , <b>2002</b> , 23, 727-39	2.9	16
176	Rationale for a national multi-centre study of magnetic resonance imaging screening in women at genetic risk of breast cancer. <i>Breast</i> , <b>2000</b> , 9, 72-7	3.6	16

175	The water resonance as an alternative pH reference: relevance to in vivo 31P NMR localized spectroscopy studies. <i>Magnetic Resonance in Medicine</i> , <b>1991</b> , 19, 416-21	4.4	16
174	A rapid interleaved method for measuring signal intensity curves in both blood and tissue during contrast agent administration. <i>Magnetic Resonance in Medicine</i> , <b>1993</b> , 30, 744-9	4.4	16
173	Total body nitrogen measured by the $^{14}\text{N}(n, 2n)^{13}\text{N}$ method: a study of the interfering reactions and the variation of spatial sensitivity with depth. <i>The International Journal of Applied Radiation and Isotopes</i> , <b>1977</b> , 28, 263-9		16
172	Breast MRI segmentation for density estimation: Do different methods give the same results and how much do differences matter?. <i>Medical Physics</i> , <b>2017</b> , 44, 4573-4592	4.4	15
171	Evaluation of diffusion models in breast cancer. <i>Medical Physics</i> , <b>2015</b> , 42, 4833-9	4.4	15
170	Optimal age to start preventive measures in women with BRCA1/2 mutations or high familial breast cancer risk. <i>International Journal of Cancer</i> , <b>2013</b> , 133, 156-63	7.5	15
169	Appearances of colorectal hepatic metastases at diffusion-weighted MRI compared with histopathology: initial observations. <i>British Journal of Radiology</i> , <b>2012</b> , 85, 225-30	3.4	15
168	Evaluation of the combination of the dual m-TORC1/2 inhibitor vistusertib (AZD2014) and paclitaxel in ovarian cancer models. <i>Oncotarget</i> , <b>2017</b> , 8, 113874-113884	3.3	15
167	Validation of Volume-Preserving Non-rigid Registration: Application to Contrast-Enhanced MR-Mammography. <i>Lecture Notes in Computer Science</i> , <b>2002</b> , 307-314	0.9	15
166	Introduction to in vivo MRS of cancer: new perspectives and open problems. <i>Anticancer Research</i> , <b>1996</b> , 16, 1503-14	2.3	15
165	Super-resolution T2-weighted 4D MRI for image guided radiotherapy. <i>Radiotherapy and Oncology</i> , <b>2018</b> , 129, 486-493	5.3	14
164	Supervised Machine-Learning Enables Segmentation and Evaluation of Heterogeneous Post-treatment Changes in Multi-Parametric MRI of Soft-Tissue Sarcoma. <i>Frontiers in Oncology</i> , <b>2019</b> , 9, 941	5.3	14
163	Prospective, longitudinal, multi-modal functional imaging for radical chemo-IMRT treatment of locally advanced head and neck cancer: the INSIGHT study. <i>Radiation Oncology</i> , <b>2015</b> , 10, 112	4.2	14
162	Measurement of the three-dimensional distribution of radiation dose in grid therapy. <i>Physics in Medicine and Biology</i> , <b>2004</b> , 49, N317-23	3.8	14
161	The development of functional imaging in the diagnosis, management and understanding of childhood brain tumours. <i>Pediatric Blood and Cancer</i> , <b>2005</b> , 44, 103-13	3	14
160	Comparison of Dixon Sequences for Estimation of Percent Breast Fibroglandular Tissue. <i>PLoS ONE</i> , <b>2016</b> , 11, e0152152	3.7	14
159	Magnetic Resonance Imaging-Based Assessment of Breast Cancer-Related Lymphoedema Tissue Composition. <i>Investigative Radiology</i> , <b>2017</b> , 52, 554-561	10.1	13
158	Combination of chemical suppression techniques for dual suppression of fat and silicone at diffusion-weighted MR imaging in women with breast implants. <i>European Radiology</i> , <b>2012</b> , 22, 2648-53	8	13



157	Eligibility for magnetic resonance imaging screening in the United Kingdom: effect of strict selection criteria and anonymous DNA testing on breast cancer incidence in the MARIBS Study. <i>Cancer Epidemiology Biomarkers and Prevention</i> , <b>2009</b> , 18, 2123-31	4	13
156	Autoencoder in Time-Series Analysis for Unsupervised Tissues Characterisation in a Large Unlabelled Medical Image Dataset <b>2011</b> ,		13
155	A test of performance of breast MRI interpretation in a multicentre screening study. <i>Magnetic Resonance Imaging</i> , <b>2006</b> , 24, 917-29	3.3	13
154	Noninvasive measurements of capecitabine metabolism in bladder tumors overexpressing thymidine phosphorylase by fluorine-19 magnetic resonance spectroscopy. <i>Clinical Cancer Research</i> , <b>2004</b> , 10, 3863-70	12.9	13
153	Quantitative assessment of the hepatic pharmacokinetics of the antimicrobial sitafloxacin in humans using in vivo F magnetic resonance spectroscopy. <i>British Journal of Clinical Pharmacology</i> , <b>2005</b> , 59, 244-8	3.8	13
152	Inversion recovery measurements in the presence of radiation damping and implications for evaluating contrast agents in magnetic resonance. <i>Physics in Medicine and Biology</i> , <b>2005</b> , 50, N371-6	3.8	13
151	Radio-frequency probe for 1H decoupled 31P MRS of the head and neck region. <i>Magnetic Resonance Imaging</i> , <b>2001</b> , 19, 755-9	3.3	13
150	The design and use of a dual-frequency surface coil providing proton images for improved localization in 31P spectroscopy of small lesions. <i>Medical Physics</i> , <b>1986</b> , 13, 510-3	4.4	13
149	Effects of HSP90 inhibitor 17-allylamino-17-demethoxygeldanamycin (17-AAG) on NEU/HER2 overexpressing mammary tumours in MMTV-NEU-NT mice monitored by Magnetic Resonance Spectroscopy. <i>BMC Research Notes</i> , <b>2012</b> , 5, 250	2.3	12
148	Magnetic resonance spectroscopy (MRS) in the investigation of cancer at The Royal Marsden Hospital and The Institute of Cancer Research. <i>Physics in Medicine and Biology</i> , <b>2006</b> , 51, R61-82	3.8	12
147	Calculation of sensitivity correction factors for surface coil MRS. <i>Magnetic Resonance in Medicine</i> , <b>1995</b> , 33, 108-12	4.4	12
146	The development of high-efficiency cathode converters for a multiwire proportional chamber positron camera. <i>Medical Physics</i> , <b>1986</b> , 13, 703-6	4.4	12
145	MRI-based Assessment of 3D Intrafractional Motion of Head and Neck Cancer for Radiation Therapy. <i>International Journal of Radiation Oncology Biology Physics</i> , <b>2018</b> , 100, 306-316	4	12
144	Lung volume reproducibility under ABC control and self-sustained breath-holding. <i>Journal of Applied Clinical Medical Physics</i> , <b>2017</b> , 18, 154-162	2.3	11
143	Pre-natal exposures and breast tissue composition: findings from a British pre-birth cohort of young women and a systematic review. <i>Breast Cancer Research</i> , <b>2016</b> , 18, 102	8.3	11
142	Investigations in vivo of the effects of carbogen breathing on 5-fluorouracil pharmacokinetics and physiology of solid rodent tumours. <i>Cancer Chemotherapy and Pharmacology</i> , <b>2005</b> , 55, 117-28	3.5	11
141	Dual-contrast echo planar imaging with keyhole: application to dynamic contrast-enhanced perfusion studies. <i>Physics in Medicine and Biology</i> , <b>2005</b> , 50, 4491-505	3.8	11
140	Surface-coil polarization transfer for monitoring tissue metabolism in vivo. <i>Magnetic Resonance in Medicine</i> , <b>2000</b> , 43, 510-6	4.4	11

139	Initial measurements of ifosfamide and cyclophosphamide in patients using (31)P MRS: pulse-and-acquire, decoupling, and polarization transfer. <i>Magnetic Resonance in Medicine</i> , <b>2000</b> , 44, 180-4	4.4	11
138	SAR and tissue heating with a clinical (31)P MRS protocol using surface coils, adiabatic pulses, and proton-decoupling. <i>Magnetic Resonance in Medicine</i> , <b>2000</b> , 44, 692-700	4.4	11
137	Comparison and evaluation of rigid and nonrigid registration of breast MR images <b>1999</b> , 3661, 78		11
136	Multi-Frame SPRITE: a method for resolution enhancement of multiple-point SPRITE data. <i>Journal of Magnetic Resonance</i> , <b>2013</b> , 230, 111-6	3	10
135	Noninvasive detection of carboxypeptidase G2 activity in vivo. <i>NMR in Biomedicine</i> , <b>2011</b> , 24, 343-50	4.4	10
134	Preliminary dose response study of a gel dosimeter using 2-Hydroxyethyl Methacrylate (HEMA). <i>Australasian Physical and Engineering Sciences in Medicine</i> , <b>2005</b> , 28, 172-4	1.9	10
133	An assessment of the sensitivity of in vivo 31P nuclear magnetic resonance spectroscopy as a means of detecting pH heterogeneity in tumours: a simulation study. <i>British Journal of Radiology</i> , <b>1990</b> , 63, 120-4	3.4	10
132	The spatial resolution of a rotating gamma camera tomographic facility. <i>British Journal of Radiology</i> , <b>1983</b> , 56, 939-44	3.4	10
131	Increased inflammatory lipid metabolism and anaplerotic mitochondrial activation follow acquired resistance to vemurafenib in BRAF-mutant melanoma cells. <i>British Journal of Cancer</i> , <b>2020</b> , 122, 72-81	8.7	10
130	An evaluation of motion compensation strategies and repeatability for abdominal (1)H MR spectroscopy measurements in volunteer studies and clinical trials. <i>NMR in Biomedicine</i> , <b>2012</b> , 25, 859-65	4.4	9
129	Single-shot single-voxel lactate measurements using FOCI-LASER and a multiple-quantum filter. <i>NMR in Biomedicine</i> , <b>2015</b> , 28, 496-504	4.4	9
128	First MRI application of an active breathing coordinator. <i>Physics in Medicine and Biology</i> , <b>2015</b> , 60, 1681-9	6.8	9
127	A novel technique to monitor carboxypeptidase G2 expression in suicide gene therapy using 19F magnetic resonance spectroscopy. <i>NMR in Biomedicine</i> , <b>2009</b> , 22, 561-6	4.4	9
126	Implementation and evaluation of CSI-localized J cross-polarization for detection of 31P magnetic resonance spectra in vivo. <i>Magnetic Resonance in Medicine</i> , <b>2005</b> , 54, 1065-71	4.4	9
125	Numerical evaluation of shaped surface coil sensitivity at 63 MHz. <i>Physics in Medicine and Biology</i> , <b>2001</b> , 46, 1753-65	3.8	9
124	Problems in the interpretation of the in vivo measurement of calcium by the argon-37 method: an investigation of inert-gas elimination in humans. <i>Journal of Nuclear Medicine</i> , <b>1978</b> , 19, 54-60	8.9	9
123	The effects of paramagnetic contrast agents on metabolite protons in aqueous solution. <i>Physics in Medicine and Biology</i> , <b>2002</b> , 47, N53-9	3.8	9
122	Utility of Multi-Parametric Quantitative Magnetic Resonance Imaging for Characterization and Radiotherapy Response Assessment in Soft-Tissue Sarcomas and Correlation With Histopathology. <i>Frontiers in Oncology</i> , <b>2019</b> , 9, 280	5.3	8

121	Psychosocial effects of whole-body MRI screening in adult high-risk pathogenic mutation carriers: a case-controlled study (SIGNIFY). <i>Journal of Medical Genetics</i> , <b>2020</b> , 57, 226-236	5.8	8
120	Pediatric and adult glioblastoma radiosensitization induced by PI3K/mTOR inhibition causes early metabolic alterations detected by nuclear magnetic resonance spectroscopy. <i>Oncotarget</i> , <b>2017</b> , 8, 47969-47983	3.2	8
119	MRI in the evaluation of late bone marrow changes following bone marrow transplantation. <i>British Journal of Radiology</i> , <b>1996</b> , 69, 1145-51	3.4	8
118	Intravascular delivery of hyperpolarized <sup>129</sup> Xenon for in vivo MRI. <i>Applied Magnetic Resonance</i> , <b>1998</b> , 15, 343-352	0.8	8
117	An investigation of dose calculation accuracy in intensity-modulated radiotherapy of sites in the head & neck. <i>Physica Medica</i> , <b>2006</b> , 22, 97-104	2.7	8
116	Sliding window dual gradient echo (SW-dGRE): T1 and proton resonance frequency (PRF) calibration for temperature imaging in polyacrylamide gel. <i>Physics in Medicine and Biology</i> , <b>2003</b> , 48, 1917-31	3.8	8
115	Preliminary clinical images from a prototype positron camera. <i>British Journal of Radiology</i> , <b>1983</b> , 56, 773-64	5.4	8
114	A clinical evaluation of a prototype positron camera for longitudinal emission tomography. <i>British Journal of Radiology</i> , <b>1984</b> , 57, 1103-17	3.4	8
113	Does vascular imaging with MRI predict response to neoadjuvant chemotherapy in primary breast cancer?. <i>Journal of Clinical Oncology</i> , <b>2004</b> , 22, 582-582	2.2	8
112	Slice Encoding for Metal Artefact Correction in magnetic resonance imaging examinations for radiotherapy planning. <i>Radiotherapy and Oncology</i> , <b>2016</b> , 120, 356-62	5.3	8
111	T-adjusted computed diffusion-weighted imaging: A novel method to enhance tumour visualisation. <i>Computers in Biology and Medicine</i> , <b>2016</b> , 79, 92-98	7	8
110	Metabolic biomarkers of response to the AKT inhibitor MK-2206 in pre-clinical models of human colorectal and prostate carcinoma. <i>British Journal of Cancer</i> , <b>2018</b> , 119, 1118-1128	8.7	8
109	Synthetic 4D-CT of the thorax for treatment plan adaptation on MR-guided radiotherapy systems. <i>Physics in Medicine and Biology</i> , <b>2019</b> , 64, 115005	3.8	7
108	Validating a robust double-quantum-filtered (1) H MRS lactate measurement method in high-grade brain tumours. <i>NMR in Biomedicine</i> , <b>2016</b> , 29, 1420-6	4.4	7
107	Evaluating Imaging Biomarkers of Acquired Resistance to Targeted EGFR Therapy in Xenograft Models of Human Head and Neck Squamous Cell Carcinoma. <i>Frontiers in Oncology</i> , <b>2018</b> , 8, 271	5.3	7
106	Noninvasive phosphorus magnetic resonance spectroscopic imaging predicts outcome to first-line chemotherapy in newly diagnosed patients with diffuse large B-cell lymphoma. <i>Academic Radiology</i> , <b>2013</b> , 20, 1122-9	4.3	7
105	Detecting human melanoma cell re-differentiation following BRAF or heat shock protein 90 inhibition using photoacoustic and magnetic resonance imaging. <i>Scientific Reports</i> , <b>2017</b> , 7, 8215	4.9	7
104	Non-Invasive Prostate Cancer Characterization with Diffusion-Weighted MRI: Insight from Studies of a Transgenic Mouse Model. <i>Frontiers in Oncology</i> , <b>2017</b> , 7, 290	5.3	7

103	Use of the temporal median and trimmed mean mitigates effects of respiratory motion in multiple-acquisition abdominal diffusion imaging. <i>Physics in Medicine and Biology</i> , <b>2015</b> , 60, N9-20	3.8	7
102	Investigating the influence of flip angle and k-space sampling on dynamic contrast-enhanced MRI breast examinations. <i>Academic Radiology</i> , <b>2014</b> , 21, 1394-401	4.3	7
101	Identification of biliary metabolites of ifosfamide using <sup>31</sup> P magnetic resonance spectroscopy and mass spectrometry. <i>Cancer Chemotherapy and Pharmacology</i> , <b>2005</b> , 56, 409-14	3.5	7
100	The quantitative <sup>19</sup> F-imaging of albumin at 1.5 T: a potential in-vivo tool. <i>Magnetic Resonance Imaging</i> , <b>2001</b> , 19, 839-44	3.3	7
99	<sup>1</sup> H decoupling for in vivo ( <sup>19</sup> F) MRS studies using the time-share modulation method on a clinical 1.5 T NMR system. <i>Magnetic Resonance in Medicine</i> , <b>2000</b> , 44, 5-9	4.4	7
98	Increased NOE enhancement in <sup>1</sup> H decoupled <sup>31</sup> P MRS. <i>Magnetic Resonance in Medicine</i> , <b>1995</b> , 34, 893-7	4.4	7
97	The effect of oestrogen ablation on the phospholipid metabolite content of primary and transplanted rat mammary tumours. <i>NMR in Biomedicine</i> , <b>1993</b> , 6, 209-14	4.4	7
96	In vivo measurement of calcium by the <sup>37</sup> Ar method: a study of the effect of recirculating breath collection systems on the exhalation rate. <i>Physics in Medicine and Biology</i> , <b>1978</b> , 23, 282-90	3.8	7
95	Visualizing whole-body treatment response heterogeneity using multi-parametric magnetic resonance imaging. <i>Journal of Algorithms and Computational Technology</i> , <b>2016</b> , 10, 290-301	0.7	7
94	Growth Trajectories, Breast Size, and Breast-Tissue Composition in a British Prebirth Cohort of Young Women. <i>American Journal of Epidemiology</i> , <b>2018</b> , 187, 1259-1268	3.8	6
93	Quantitative evaluation of contrast agent uptake in standard fat-suppressed dynamic contrast-enhanced MRI examinations of the breast. <i>Medical Physics</i> , <b>2018</b> , 45, 287-296	4.4	6
92	Microstructure Characterization of Bone Metastases from Prostate Cancer with Diffusion MRI: Preliminary Findings. <i>Frontiers in Oncology</i> , <b>2018</b> , 8, 26	5.3	6
91	Breast dynamic contrast-enhanced examinations with fat suppression: are contrast-agent uptake curves affected by magnetic field inhomogeneity?. <i>European Radiology</i> , <b>2013</b> , 23, 1537-45	8	6
90	Magnetic Resonance Spectroscopy to Study Glycolytic Metabolism During Autophagy. <i>Methods in Enzymology</i> , <b>2017</b> , 588, 133-153	1.7	6
89	Evaluation of lactate detection using selective multiple quantum coherence in phantoms and brain tumours. <i>NMR in Biomedicine</i> , <b>2015</b> , 28, 338-43	4.4	6
88	Development of a hybrid magnetic resonance and ultrasound imaging system. <i>BioMed Research International</i> , <b>2014</b> , 2014, 914347	3	6
87	Profiling metabolite changes in the neuronal differentiation of human striatal neural stem cells using <sup>1</sup> H-magnetic resonance spectroscopy. <i>NeuroReport</i> , <b>2013</b> , 24, 1035-40	1.7	6
86	Computerized detection of breast lesions in multi-centre and multi-instrument DCE-MR data using 3D principal component maps and template matching. <i>Physics in Medicine and Biology</i> , <b>2011</b> , 56, 7795-811	3.8	6

85	MRI for breast cancer screening. <i>Annals of Oncology</i> , <b>2006</b> , 17 Suppl 10, x325-31	10.3	6
84	Ifosfamide pharmacokinetics and hepatobiliary uptake in vivo investigated using single- and double-resonance <sup>31</sup> P MRS. <i>Magnetic Resonance in Medicine</i> , <b>2003</b> , 50, 249-55	4.4	6
83	Burst imaging: Can it ever be useful in the clinic?. <i>Concepts in Magnetic Resonance Part A: Bridging Education and Research</i> , <b>2005</b> , 26A, 11-34	0.6	6
82	Simultaneous localized <sup>1</sup> H STEAM/ <sup>31</sup> P ISIS spectroscopy in vivo. <i>Magnetic Resonance in Medicine</i> , <b>1996</b> , 35, 465-70	4.4	6
81	A single-shot shimming sequence using low-power RF noise pulses for localized in vivo NMR spectroscopy. <i>Physics in Medicine and Biology</i> , <b>1992</b> , 37, 281-7	3.8	6
80	A comparison between 180 degrees and 360 degrees data reconstruction in single photon emission computed tomography of the liver and spleen. <i>British Journal of Radiology</i> , <b>1983</b> , 56, 931-7	3.4	6
79	A compartmental model for investigating the influence of physiological factors on the rate of washout of <sup>133</sup> Xe and <sup>37</sup> Ar from the body. <i>Physics in Medicine and Biology</i> , <b>1982</b> , 27, 1105-17	3.8	6
78	Characterizing Heterogeneity within Head and Neck Lesions Using Cluster Analysis of Multi-Parametric MRI Data. <i>PLoS ONE</i> , <b>2015</b> , 10, e0138545	3.7	6
77	Quality assurance in MRI breast screening: comparing signal-to-noise ratio in dynamic contrast-enhanced imaging protocols. <i>Physics in Medicine and Biology</i> , <b>2016</b> , 61, 37-49	3.8	6
76	The UK national study of magnetic resonance imaging as a method of screening for breast cancer (MARIBS). <i>Journal of Experimental and Clinical Cancer Research</i> , <b>2002</b> , 21, 107-14		6
75	Post-radiotherapy apparent diffusion coefficient (ADC) in children and young adults with high-grade gliomas and diffuse intrinsic pontine gliomas. <i>Pediatric Hematology and Oncology</i> , <b>2019</b> , 36, 103-112	1.7	5
74	Phase I study of nintedanib incorporating dynamic contrast-enhanced magnetic resonance imaging in patients with advanced solid tumors. <i>Oncologist</i> , <b>2015</b> , 20, 368-9	5.7	5
73	Assessment of colorectal hepatic metastases by quantitative T2 relaxation time. <i>European Journal of Radiology</i> , <b>2012</b> , 81, e536-40	4.7	5
72	A Bayesian hierarchical model for DCE-MRI to evaluate treatment response in a phase II study in advanced squamous cell carcinoma of the head and neck. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , <b>2011</b> , 24, 85-96	2.8	5
71	Investigation of microenvironmental factors influencing the longitudinal relaxation times of drugs and other compounds. <i>Magnetic Resonance Imaging</i> , <b>2004</b> , 22, 973-82	3.3	5
70	Quantitative magnetic resonance spectroscopy by optimized numerical curve fitting. <i>NMR in Biomedicine</i> , <b>1992</b> , 5, 87-94	4.4	5
69	A two-point volume localized T1 measurement sequence for in vivo spectroscopy using a surface coil. <i>NMR in Biomedicine</i> , <b>1992</b> , 5, 95-100	4.4	5
68	Threshold voltages for hyperbolic secant inversion pulses. <i>NMR in Biomedicine</i> , <b>1992</b> , 5, 142-4	4.4	5

67	3D positron emission tomography: preliminary results. <i>British Journal of Radiology</i> , <b>1986</b> , 59, 419-22	3.4	5
66	An x-ray detector system and modified simulator providing CT images for radiotherapy dosimetry planning. <i>Physics in Medicine and Biology</i> , <b>1985</b> , 30, 303-11	3.8	5
65	A rotate-translate CT scanner providing cross-sectional data suitable for planning the dosimetry of radiotherapy treatment. <i>Medical Physics</i> , <b>1982</b> , 9, 269-75	4.4	5
64	Modulation of renal oxygenation and perfusion in rat kidney monitored by quantitative diffusion and blood oxygen level dependent magnetic resonance imaging on a clinical 1.5T platform. <i>BMC Nephrology</i> , <b>2016</b> , 17, 142	2.7	5
63	Reproducibility of the lung anatomy under active breathing coordinator control: Dosimetric consequences for scanned proton treatments. <i>Medical Physics</i> , <b>2018</b> , 45, 5525-5534	4.4	5
62	Phosphocholine and choline content of rat sarcoma cells grown in the presence and absence of serum. <i>Anticancer Research</i> , <b>1996</b> , 16, 1389-92	2.3	5
61	Prospective multicentre evaluation and refinement of an analysis tool for magnetic resonance spectroscopy of childhood cerebellar tumours. <i>Pediatric Radiology</i> , <b>2018</b> , 48, 1630-1641	2.8	4
60	Phase-cycled averaging for the suppression of residual magnetisation in SPI sequences. <i>Journal of Magnetic Resonance</i> , <b>2009</b> , 199, 117-25	3	4
59	Non-invasive study of human gall bladder bile in vivo using (1)H-MR spectroscopy. <i>British Journal of Radiology</i> , <b>2003</b> , 76, 483-6	3.4	4
58	Classification Improvement by Segmentation Refinement: Application to Contrast-Enhanced MR-Mammography. <i>Lecture Notes in Computer Science</i> , <b>2004</b> , 184-191	0.9	4
57	A model to assess SAR for surface coil magnetic resonance spectroscopy measurements. <i>Physics in Medicine and Biology</i> , <b>2002</b> , 47, 1805-17	3.8	4
56	Finite-element based validation of nonrigid registration using single- and multilevel free-form deformations: application to contrast-enhanced MR mammography <b>2002</b> , 4684, 550		4
55	Focused ultrasound surgery-induced vascular occlusion in fetal medicine <b>1998</b> ,		4
54	A gradient scheme suitable for localized shimming and in vivo 1H/31P STEAM and ISIS NMR spectroscopy. <i>Magnetic Resonance in Medicine</i> , <b>1994</b> , 32, 768-72	4.4	4
53	pH calibration curve at 1.5 Tesla. <i>Physics in Medicine and Biology</i> , <b>1989</b> , 34, 1289-1293	3.8	4
52	The performance characteristics of a simulator-based CT scanner. <i>IEEE Transactions on Medical Imaging</i> , <b>1988</b> , 7, 91-8	11.7	4
51	Reconstructions from a Nonstandard CT Scanner. <i>IEEE Transactions on Medical Imaging</i> , <b>1984</b> , 3, 193-6	11.7	4
50	Noise-Corrected, Exponentially Weighted, Diffusion-Weighted MRI (niceDWI) Improves Image Signal Uniformity in Whole-Body Imaging of Metastatic Prostate Cancer. <i>Frontiers in Oncology</i> , <b>2020</b> , 10, 704	5.3	3

49	Characterisation of fibrosis in chemically-induced rat mammary carcinomas using multi-modal endogenous contrast MRI on a 1.5T clinical platform. <i>European Radiology</i> , <b>2018</b> , 28, 1642-1653	8	3
48	On doubling the signal in localised stimulated echo measurements. <i>Magnetic Resonance Imaging</i> , <b>1995</b> , 13, 629-32	3.3	3
47	Practicalities of localization in animal and human tumours. <i>NMR in Biomedicine</i> , <b>1992</b> , 5, 244-52	4.4	3
46	The retention and release of <sup>37</sup> Ar from samples of human bone examined in vitro and a review of the implications for argon transfer from bone in vivo. <i>Physics in Medicine and Biology</i> , <b>1983</b> , 28, 389-405	3.8	3
45	Quantitative diffusion-weighted (DW) MR imaging of microcapillary perfusion and tissue diffusivity as biomarkers of response of renal cell carcinoma (RCC) to treatment with sunitinib.. <i>Journal of Clinical Oncology</i> , <b>2011</b> , 29, TPS154-TPS154	2.2	3
44	Comparison of Breast Density Assessments Based on Interactive Thresholding and Automated Fast Fuzzy c-means Clustering in Three-Dimensional MR Imaging. <i>IFMBE Proceedings</i> , <b>2009</b> , 1893-1896	0.2	3
43	A novel approach to evaluate spatial resolution of MRI clinical images for optimization and standardization of breast screening protocols. <i>Medical Physics</i> , <b>2016</b> , 43, 6354	4.4	3
42	SOM-Based Wavelet Filtering for the Exploration of Medical Images. <i>Lecture Notes in Computer Science</i> , <b>2005</b> , 671-676	0.9	3
41	Detecting microvascular changes in the mouse spleen using optical computed tomography. <i>Microvascular Research</i> , <b>2015</b> , 101, 96-102	3.7	2
40	Time-resolved angiography with stochastic trajectories for dynamic contrast-enhanced MRI in head and neck cancer: Are pharmacokinetic parameters affected?. <i>Medical Physics</i> , <b>2016</b> , 43, 6024	4.4	2
39	Feasibility and applicability of diffusion-weighted and dynamic contrast-enhanced magnetic resonance imaging in routine assessments of children with high-grade gliomas. <i>Pediatric Blood and Cancer</i> , <b>2017</b> , 64, 279-283	3	2
38	PRESAGE <sup>2</sup> as a new calibration method for high intensity focused ultrasound therapy. <i>Journal of Physics: Conference Series</i> , <b>2015</b> , 573, 012026	0.3	2
37	Wireless Accelerometer for MRI-Guided Interventional Procedures. <i>Technologies</i> , <b>2013</b> , 1, 44-53	2.4	2
36	Visual detectability of elastic contrast in real-time ultrasound images <b>1997</b> ,		2
35	Conformational exchange in pimonidazole--a hypoxia marker. <i>Magnetic Resonance in Chemistry</i> , <b>2007</b> , 45, 621-3	2.1	2
34	Rapid localization of concave volumes by conformal NMR spectroscopy. <i>Magnetic Resonance in Medicine</i> , <b>1992</b> , 23, 386-93	4.4	2
33	The measurement of resolution in single photon emission computerised tomography. <i>Physics in Medicine and Biology</i> , <b>1984</b> , 29, 282-4	3.8	2
32	Blood flow measurements and the partition coefficient of <sup>133</sup> Xe in bone. <i>Physics in Medicine and Biology</i> , <b>1982</b> , 27, 1401-3	3.8	2

31	The preparation of $^{37}\text{Ar}$ in sterile solution suitable for injection in vivo. <i>The International Journal of Applied Radiation and Isotopes</i> , <b>1982</b> , 33, 586-8		2
30	In vitro nuclear magnetic resonance spectroscopy metabolic biomarkers for the combination of temozolomide with PI3K inhibition in paediatric glioblastoma cells. <i>PLoS ONE</i> , <b>2017</b> , 12, e0180263	3.7	2
29	Validation of Non-rigid Registration of Contrast-Enhanced MR Mammography Using Finite Element Methods. <i>Informatik Aktuell</i> , <b>2002</b> , 143-146	0.3	2
28	The Application of Variable Median Window Filtering to Computerised Tomography <b>1984</b> , 151-168		2
27	Circulating Growth and Sex Hormone Levels and Breast Tissue Composition in Young Nulliparous Women. <i>Cancer Epidemiology Biomarkers and Prevention</i> , <b>2018</b> , 27, 1500-1508	4	2
26	PO-0959: Dosimetric Evaluation of Midposition Pseudo-CT for MR-only Lung Radiotherapy Treatment planning. <i>Radiotherapy and Oncology</i> , <b>2018</b> , 127, S526-S527	5.3	2
25	High resolution 3D dosimetry for microbeam radiation therapy using optical CT. <i>Journal of Physics: Conference Series</i> , <b>2015</b> , 573, 012032	0.3	1
24	Evaluation of distortion correction of diffusion-weighted MR images of human cervix <b>2012</b> ,		1
23	Micro-coils for MR spectroscopy by deep silicon etching. <i>Journal of Physics: Conference Series</i> , <b>2005</b> , 15, 13-18	0.3	1
22	Adiabatic half-passage pulses for measuring the polarization of highly non-equilibrium spin-systems. <i>Chemical Physics Letters</i> , <b>2005</b> , 414, 102-106	2.5	1
21	Pre-processed image reconstruction applied to breast and brain MR imaging. <i>Physiological Measurement</i> , <b>2001</b> , 22, 589-604	2.9	1
20	Magnetic resonance imaging and spectroscopy: An introduction to theory, hardware, current applications and safety. <i>Journal of Radiological Protection</i> , <b>1992</b> , 12, 137-158	1.2	1
19	The release rate of $^{37}\text{Ar}$ from human subjects following intravenous injection. <i>Physics in Medicine and Biology</i> , <b>1984</b> , 29, 779-88	3.8	1
18	Content Based Image Retrieval for Dynamic Time Series Data	61-65	1
17	Improving the Accuracy of T1 Measurements In Vivo: The Use of the Hyperbolic Secant Pulse in the Saturation Recovery/Inversion Recovery Sequence <b>1990</b> , 36-42		1
16	A novel roadmap connecting the H-MRS total choline resonance to all hallmarks of cancer following targeted therapy. <i>European Radiology Experimental</i> , <b>2021</b> , 5, 5	4.5	1
15	Selective homonuclear Hartmann-Hahn for $^{13}\text{C}$ - $^{13}\text{C}$ polarization transfer in solution state NMR. <i>Molecular Physics</i> , <b>2007</b> , 105, 1827-1832	1.7	0
14	Quantifying MRI relaxation in flowing blood: implications for arterial input function measurement in DCE-MRI. <i>British Journal of Radiology</i> , <b>2021</b> , 94, 20191004	3.4	0



- 13 DCE-MRI is more sensitive than IVIM-DWI for assessing anti-angiogenic treatment-induced changes in colorectal liver metastases.. *Cancer Imaging*, **2021**, 21, 67 5.6 0
- 12 Metabolomic Magnetic Resonance Spectroscopy of Human Tissues: Comparison of In Vivo and High-Resolution Magic Angle Spinning Ex Vivo Techniques 472-495
- 11 A simple phantom to locate the origin of MRI ghost artefacts. *Magnetic Resonance Imaging*, **1998**, 16, 73-6 3.3
- 10 Multiscale analysis of MR-mammography data. *Zeitschrift Fur Medizinische Physik*, **2007**, 17, 166-71 7.6
- 9 Use of Dynamic Contrast-Enhanced MRI in Multi-Centre Trials with Particular Reference to Breast Cancer Screening in Women at Genetic Risk **2005**, 265-279
- 8 Technical note: reducing motion artifacts in in vivo magnetic resonance imaging measurements of relaxation times. *British Journal of Radiology*, **1994**, 67, 1249-57 3.4
- 7 Radial diffusion coefficient mapping. *British Journal of Radiology*, **1992**, 65, 885-94 3.4
- 6 Installation of an ambient-temperature control system in a 1.5-tesla whole body system to facilitate animal studies. *Medical Physics*, **1989**, 16, 916-9 4.4
- 5 Early Response to Chemotherapy in Malignant Pleural Mesothelioma Evaluated Using Diffusion-Weighted Magnetic Resonance Imaging: Initial Observations. *JTO Clinical and Research Reports*, **2021**, 2, 100253 1.4
- 4 Clinical <sup>19</sup>F Nuclear Magnetic Resonance Spectroscopy in Colorectal Cancer: Monitoring Low-Level 5-Fluorouracil Infusion Therapy and the Metabolic Effects of Additive Interferon **1992**, 213-218
- 3 MRI Applications, *Clinical* **2017**, 873-882
- 2 Phosphorus Magnetic Resonance Spectroscopy Predicts Outcome to Chemotherapy In Patients with Diffuse Large B-Cell Lymphoma: A Prospective International Multicenter Analysis of a Pretreatment Metabolic Biomarker of Response. *Blood*, **2010**, 116, 3104-3104 2.2
- 1 Assessing response to treatment in breast cancer using magnetic resonance. *Journal of Experimental and Clinical Cancer Research*, **2002**, 21, 39-45