

# Paul J Keall

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

387  
papers

12,838  
citations

55  
h-index

101  
g-index

427  
ext. papers

14,684  
ext. citations

3.3  
avg, IF

6.37  
L-index

| #   | Paper  | IF  | Citations |
|-----|--|-----|-----------|
| 387 | The management of respiratory motion in radiation oncology report of AAPM Task Group 76. <i>Medical Physics</i> , <b>2006</b> , 33, 3874-900   | 4.4 | 1455      |
| 386 | Stereotactic body radiation therapy: the report of AAPM Task Group 101. <i>Medical Physics</i> , <b>2010</b> , 37, 4078-101  | 4.1 | 1177      |
| 385 | Report of the AAPM Task Group No. 105: Issues associated with clinical implementation of Monte Carlo-based photon and electron external beam treatment planning. <i>Medical Physics</i> , <b>2007</b> , 34, 4818-53                                    | 4.4 | 448       |
| 384 | 4-dimensional computed tomography imaging and treatment planning. <i>Seminars in Radiation Oncology</i> , <b>2004</b> , 14, 81-90  | 5.5 | 391       |
| 383 | Four-dimensional radiotherapy planning for DMLC-based respiratory motion tracking. <i>Medical Physics</i> , <b>2005</b> , 32, 942-51   | 4.4 | 244       |
| 382 | The Australian magnetic resonance imaging-linac program. <i>Seminars in Radiation Oncology</i> , <b>2014</b> , 24, 203-6   | 5.5 | 234       |
| 381 | Patient training in respiratory-gated radiotherapy. <i>Medical Dosimetry</i> , <b>2003</b> , 28, 7-11  | 1.3 | 208       |
| 380 | Audio-visual biofeedback for respiratory-gated radiotherapy: impact of audio instruction and audio-visual biofeedback on respiratory-gated radiotherapy. <i>International Journal of Radiation Oncology Biology Physics</i> , <b>2006</b> , 65, 924-33 | 4   | 201       |
| 379 | Retrospective analysis of artifacts in four-dimensional CT images of 50 abdominal and thoracic radiotherapy patients. <i>International Journal of Radiation Oncology Biology Physics</i> , <b>2008</b> , 72, 1250-8                                    | 4   | 186       |
| 378 | Dosimetric considerations for patients with HIP prostheses undergoing pelvic irradiation. Report of the AAPM Radiation Therapy Committee Task Group 63. <i>Medical Physics</i> , <b>2003</b> , 30, 1162-82   | 4.4 | 168       |
| 377 | Geometric accuracy of a real-time target tracking system with dynamic multileaf collimator tracking system. <i>International Journal of Radiation Oncology Biology Physics</i> , <b>2006</b> , 65, 1579-84   | 4   | 149       |
| 376 | An analysis of thoracic and abdominal tumour motion for stereotactic body radiotherapy patients. <i>Physics in Medicine and Biology</i> , <b>2008</b> , 53, 3623-40  | 3.8 | 138       |
| 375 | Management of three-dimensional intrafraction motion through real-time DMLC tracking. <i>Medical Physics</i> , <b>2008</b> , 35, 2050-61   | 4.4 | 132       |
| 374 | The first clinical implementation of electromagnetic transponder-guided MLC tracking. <i>Medical Physics</i> , <b>2014</b> , 41, 020702  | 4.4 | 125       |
| 373 | Hypofractionation results in reduced tumor cell kill compared to conventional fractionation for tumors with regions of hypoxia. <i>International Journal of Radiation Oncology Biology Physics</i> , <b>2011</b> , 79, 1188-95                         | 4   | 122       |
| 372 | Monte Carlo computation of dosimetric amorphous silicon electronic portal images. <i>Medical Physics</i> , <b>2004</b> , 31, 2135-46   | 4.4 | 105       |
| 371 | First demonstration of combined kV/MV image-guided real-time dynamic multileaf-collimator target tracking. <i>International Journal of Radiation Oncology Biology Physics</i> , <b>2009</b> , 74, 859-67   | 4   | 104       |

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| 370 | Impact of four-dimensional computed tomography pulmonary ventilation imaging-based functional avoidance for lung cancer radiotherapy. <i>International Journal of Radiation Oncology Biology Physics</i> , <b>2011</b> , 79, 279-88  | 4   | 102 |
| 369 | Tumor and normal tissue motion in the thorax during respiration: Analysis of volumetric and positional variations using 4D CT. <i>International Journal of Radiation Oncology Biology Physics</i> , <b>2007</b> , 67, 296-307  | 4   | 97  |
| 368 | A method for photon beam Monte Carlo multileaf collimator particle transport. <i>Physics in Medicine and Biology</i> , <b>2002</b> , 47, 3225-49   | 3.8 | 95  |
| 367 | Toward submillimeter accuracy in the management of intrafraction motion: the integration of real-time internal position monitoring and multileaf collimator target tracking. <i>International Journal of Radiation Oncology Biology Physics</i> , <b>2009</b> , 74, 575-82 | 4   | 94  |
| 366 | Comparisons between MCNP, EGS4 and experiment for clinical electron beams. <i>Physics in Medicine and Biology</i> , <b>1999</b> , 44, 705-17   | 3.8 | 91  |
| 365 | A new formula for normal tissue complication probability (NTCP) as a function of equivalent uniform dose (EUD). <i>Physics in Medicine and Biology</i> , <b>2008</b> , 53, 23-36   | 3.8 | 87  |
| 364 | A method for determining multileaf collimator transmission and scatter for dynamic intensity modulated radiotherapy. <i>Medical Physics</i> , <b>2000</b> , 27, 2231-41  | 4.4 | 86  |
| 363 | Determining the incident electron fluence for Monte Carlo-based photon treatment planning using a standard measured data set. <i>Medical Physics</i> , <b>2003</b> , 30, 574-82  | 4.4 | 84  |
| 362 | A Monte Carlo study of radiation transport through multileaf collimators. <i>Medical Physics</i> , <b>2001</b> , 28, 2497-506  | 4.4 | 82  |
| 361 | The effect of dose calculation accuracy on inverse treatment planning. <i>Physics in Medicine and Biology</i> , <b>2002</b> , 47, 391-407  | 3.8 | 80  |
| 360 | Kilovoltage intrafraction monitoring for prostate intensity modulated arc therapy: first clinical results. <i>International Journal of Radiation Oncology Biology Physics</i> , <b>2012</b> , 84, e655-61  | 4   | 79  |
| 359 | A method of dose reconstruction for moving targets compatible with dynamic treatments. <i>Medical Physics</i> , <b>2012</b> , 39, 6237-46  | 4.4 | 76  |
| 358 | The first patient treatment of electromagnetic-guided real time adaptive radiotherapy using MLC tracking for lung SABR. <i>Radiotherapy and Oncology</i> , <b>2016</b> , 121, 19-25  | 5.3 | 75  |
| 357 | A method to estimate mean position, motion magnitude, motion correlation, and trajectory of a tumor from cone-beam CT projections for image-guided radiotherapy. <i>International Journal of Radiation Oncology Biology Physics</i> , <b>2008</b> , 72, 1587-96            | 4   | 75  |
| 356 | Design and evaluation of a variable aperture collimator for conformal radiotherapy of small animals using a microCT scanner. <i>Medical Physics</i> , <b>2007</b> , 34, 4359-67  | 4.4 | 75  |
| 355 | Future of medical physics: Real-time MRI-guided proton therapy. <i>Medical Physics</i> , <b>2017</b> , 44, e77-e90   | 4.4 | 73  |
| 354 | Three-dimensional prostate position estimation with a single x-ray imager utilizing the spatial probability density. <i>Physics in Medicine and Biology</i> , <b>2008</b> , 53, 4331-53  | 3.8 | 73  |
| 353 | Modeling the truebeam linac using a CAD to Geant4 geometry implementation: dose and IAEA-compliant phase space calculations. <i>Medical Physics</i> , <b>2011</b> , 38, 4018-24  | 4.4 | 72  |

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| 352 | Development and preliminary evaluation of a prototype audiovisual biofeedback device incorporating a patient-specific guiding waveform. <i>Physics in Medicine and Biology</i> , <b>2008</b> , 53, N197-208                                    | 3.8 | 72 |
| 351 | The clinical implementation of respiratory-gated intensity-modulated radiotherapy. <i>Medical Dosimetry</i> , <b>2006</b> , 31, 152-62   | 1.3 | 70 |
| 350 | Effect of patient setup errors on simultaneously integrated boost head and neck IMRT treatment plans. <i>International Journal of Radiation Oncology Biology Physics</i> , <b>2005</b> , 63, 422-33  | 4   | 69 |
| 349 | Incorporating multi-leaf collimator leaf sequencing into iterative IMRT optimization. <i>Medical Physics</i> , <b>2002</b> , 29, 952-9   | 4.4 | 68 |
| 348 | A dosimetric comparison of real-time adaptive and non-adaptive radiotherapy: A multi-institutional study encompassing robotic, gimbaled, multileaf collimator and couch tracking. <i>Radiotherapy and Oncology</i> , <b>2016</b> , 119, 159-65 | 5.3 | 68 |
| 347 | Three-dimensional MRI-linac intra-fraction guidance using multiple orthogonal cine-MRI planes. <i>Physics in Medicine and Biology</i> , <b>2013</b> , 58, 4943-50  | 3.8 | 65 |
| 346 | Real-time DMLC IMRT delivery for mobile and deforming targets. <i>Medical Physics</i> , <b>2005</b> , 32, 3037-48  | 4.4 | 64 |
| 345 | Dm rather than Dw should be used in Monte Carlo treatment planning. For the proposition. <i>Medical Physics</i> , <b>2002</b> , 29, 922-3  | 4.4 | 64 |
| 344 | Pulmonary ventilation imaging based on 4-dimensional computed tomography: comparison with pulmonary function tests and SPECT ventilation images. <i>International Journal of Radiation Oncology Biology Physics</i> , <b>2014</b> , 90, 414-22 | 4   | 62 |
| 343 | Validating and improving CT ventilation imaging by correlating with ventilation 4D-PET/CT using 68Ga-labeled nanoparticles. <i>Medical Physics</i> , <b>2014</b> , 41, 011910  | 4.4 | 62 |
| 342 | The first clinical treatment with kilovoltage intrafraction monitoring (KIM): a real-time image guidance method. <i>Medical Physics</i> , <b>2015</b> , 42, 354-8  | 4.4 | 61 |
| 341 | Development of a micro-computed tomography-based image-guided conformal radiotherapy system for small animals. <i>International Journal of Radiation Oncology Biology Physics</i> , <b>2010</b> , 78, 297-305                                  | 4   | 61 |
| 340 | Real-time intrafraction motion monitoring in external beam radiotherapy. <i>Physics in Medicine and Biology</i> , <b>2019</b> , 64, 15TR01   | 3.8 | 60 |
| 339 | The first patient treatment of computed tomography ventilation functional image-guided radiotherapy for lung cancer. <i>Radiotherapy and Oncology</i> , <b>2016</b> , 118, 227-31  | 5.3 | 59 |
| 338 | Dynamic multileaf collimator tracking of respiratory target motion based on a single kilovoltage imager during arc radiotherapy. <i>International Journal of Radiation Oncology Biology Physics</i> , <b>2010</b> , 77, 600-7                  | 4   | 59 |
| 337 | Implementation of a new method for dynamic multileaf collimator tracking of prostate motion in arc radiotherapy using a single kV imager. <i>International Journal of Radiation Oncology Biology Physics</i> , <b>2010</b> , 76, 914-23        | 4   | 58 |
| 336 | Real-time dynamic MLC tracking for inversely optimized arc radiotherapy. <i>Radiotherapy and Oncology</i> , <b>2010</b> , 94, 218-23   | 5.3 | 57 |
| 335 | Online prediction of respiratory motion: multidimensional processing with low-dimensional feature learning. <i>Physics in Medicine and Biology</i> , <b>2010</b> , 55, 3011-25   | 3.8 | 56 |

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| 334 | Investigation of four-dimensional computed tomography-based pulmonary ventilation imaging in patients with emphysematous lung regions. <i>Physics in Medicine and Biology</i> , <b>2011</b> , 56, 2279-98                         | 3.8 | 56 |
| 333 | Electromagnetic-guided dynamic multileaf collimator tracking enables motion management for intensity-modulated arc therapy. <i>International Journal of Radiation Oncology Biology Physics</i> , <b>2011</b> , 79, 312-20         | 4   | 55 |
| 332 | Computational challenges for image-guided radiation therapy: framework and current research. <i>Seminars in Radiation Oncology</i> , <b>2007</b> , 17, 245-57   | 5.5 | 55 |
| 331 | Multileaf Collimator Tracking Improves Dose Delivery for Prostate Cancer Radiation Therapy: Results of the First Clinical Trial. <i>International Journal of Radiation Oncology Biology Physics</i> , <b>2015</b> , 92, 1141-1147 | 4   | 54 |
| 330 | Failure mode and effect analysis-based quality assurance for dynamic MLC tracking systems. <i>Medical Physics</i> , <b>2010</b> , 37, 6466-79   | 4.4 | 53 |
| 329 | Four-dimensional computed tomography pulmonary ventilation images vary with deformable image registration algorithms and metrics. <i>Medical Physics</i> , <b>2011</b> , 38, 1348-58  | 4.4 | 53 |
| 328 | Monte Carlo-based inverse treatment planning. <i>Physics in Medicine and Biology</i> , <b>1999</b> , 44, 1885-96  | 3.8 | 52 |
| 327 | Motion prediction in MRI-guided radiotherapy based on interleaved orthogonal cine-MRI. <i>Physics in Medicine and Biology</i> , <b>2016</b> , 61, 872-87  | 3.8 | 52 |
| 326 | Detailed analysis of latencies in image-based dynamic MLC tracking. <i>Medical Physics</i> , <b>2010</b> , 37, 4998-5005  | 4.4 | 51 |
| 325 | Superposition dose calculation incorporating Monte Carlo generated electron track kernels. <i>Medical Physics</i> , <b>1996</b> , 23, 479-85  | 4.4 | 49 |
| 324 | Six degrees-of-freedom prostate and lung tumor motion measurements using kilovoltage intrafraction monitoring. <i>International Journal of Radiation Oncology Biology Physics</i> , <b>2015</b> , 91, 368-75                      | 4   | 48 |
| 323 | Real-time profiling of respiratory motion: baseline drift, frequency variation and fundamental pattern change. <i>Physics in Medicine and Biology</i> , <b>2009</b> , 54, 4777-92   | 3.8 | 48 |
| 322 | Displacement-based binning of time-dependent computed tomography image data sets. <i>Medical Physics</i> , <b>2006</b> , 33, 235-46   | 4.4 | 48 |
| 321 | Image-based dynamic multileaf collimator tracking of moving targets during intensity-modulated arc therapy. <i>International Journal of Radiation Oncology Biology Physics</i> , <b>2012</b> , 83, e265-71                        | 4   | 47 |
| 320 | Real-time tumor tracking using sequential kV imaging combined with respiratory monitoring: a general framework applicable to commonly used IGRT systems. <i>Physics in Medicine and Biology</i> , <b>2010</b> , 55, 3299-316      | 3.8 | 47 |
| 319 | Proton beam deflection in MRI fields: Implications for MRI-guided proton therapy. <i>Medical Physics</i> , <b>2015</b> , 42, 2113-24  | 4.4 | 46 |
| 318 | Electron contamination modeling and skin dose in 6 MV longitudinal field MRIgRT: Impact of the MRI and MRI fringe field. <i>Medical Physics</i> , <b>2012</b> , 39, 874-90  | 4.4 | 46 |
| 317 | Toward the development of intrafraction tumor deformation tracking using a dynamic multi-leaf collimator. <i>Medical Physics</i> , <b>2014</b> , 41, 061703   | 4.4 | 45 |

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| 316 | 4D CT lung ventilation images are affected by the 4D CT sorting method. <i>Medical Physics</i> , <b>2013</b> , 40, 10190-7   | 4.4 | 45 |
| 315 | Radiotherapy dose calculations in the presence of hip prostheses. <i>Medical Dosimetry</i> , <b>2003</b> , 28, 107-12  | 1.3 | 45 |
| 314 | Dynamic MLC tracking of moving targets with a single kV imager for 3D conformal and IMRT treatments. <i>Acta Oncologica</i> , <b>2010</b> , 49, 1092-100   | 3.2 | 44 |
| 313 | Monte Carlo source model for photon beam radiotherapy: photon source characteristics. <i>Medical Physics</i> , <b>2004</b> , 31, 3106-21   | 4.4 | 44 |
| 312 | Real-time prostate trajectory estimation with a single imager in arc radiotherapy: a simulation study. <i>Physics in Medicine and Biology</i> , <b>2009</b> , 54, 4019-35                                    | 3.8 | 43 |
| 311 | The effect of statistical uncertainty on inverse treatment planning based on Monte Carlo dose calculation. <i>Physics in Medicine and Biology</i> , <b>2000</b> , 45, 3601-13                                | 3.8 | 43 |
| 310 | Reproducibility of four-dimensional computed tomography-based lung ventilation imaging. <i>Academic Radiology</i> , <b>2012</b> , 19, 1554-65  | 4.3 | 42 |
| 309 | DMLC motion tracking of moving targets for intensity modulated arc therapy treatment: a feasibility study. <i>Acta Oncologica</i> , <b>2009</b> , 48, 245-50   | 3.2 | 42 |
| 308 | Medical physics challenges in clinical MR-guided radiotherapy. <i>Radiation Oncology</i> , <b>2020</b> , 15, 93  | 4.2 | 41 |
| 307 | Markerless EPID image guided dynamic multi-leaf collimator tracking for lung tumors. <i>Physics in Medicine and Biology</i> , <b>2013</b> , 58, 4195-204   | 3.8 | 40 |
| 306 | Commissioning of a novel microCT/RT system for small animal conformal radiotherapy. <i>Physics in Medicine and Biology</i> , <b>2009</b> , 54, 3727-40   | 3.8 | 40 |
| 305 | A monoscopic method for real-time tumour tracking using combined occasional x-ray imaging and continuous respiratory monitoring. <i>Physics in Medicine and Biology</i> , <b>2008</b> , 53, 2837-55          | 3.8 | 40 |
| 304 | IGRT and motion management during lung SBRT delivery. <i>Physica Medica</i> , <b>2017</b> , 44, 113-122  | 2.7 | 39 |
| 303 | A longitudinal four-dimensional computed tomography and cone beam computed tomography dataset for image-guided radiation therapy research in lung cancer. <i>Medical Physics</i> , <b>2017</b> , 44, 762-771 | 4.4 | 39 |
| 302 | Audiovisual biofeedback improves diaphragm motion reproducibility in MRI. <i>Medical Physics</i> , <b>2012</b> , 39, 6921-8  | 4.4 | 39 |
| 301 | Super-Monte Carlo: a 3-D electron beam dose calculation algorithm. <i>Medical Physics</i> , <b>1996</b> , 23, 2023-34  | 4.4 | 39 |
| 300 | An analysis of 6-MV versus 18-MV photon energy plans for intensity-modulated radiation therapy (IMRT) of lung cancer. <i>Radiotherapy and Oncology</i> , <b>2007</b> , 82, 55-62                             | 5.3 | 38 |
| 299 | Electromagnetic detection and real-time DMLC adaptation to target rotation during radiotherapy. <i>International Journal of Radiation Oncology Biology Physics</i> , <b>2012</b> , 82, e545-53               | 4   | 37 |

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|-----|--|------|----|
| 298 | Real-time estimation of prostate tumor rotation and translation with a kV imaging system based on an iterative closest point algorithm. <i>Physics in Medicine and Biology</i> , <b>2013</b> , 58, 8517-33   | 3.8  | 37 |
| 297 | Four-dimensional IMRT treatment planning using a DMLC motion-tracking algorithm. <i>Physics in Medicine and Biology</i> , <b>2009</b> , 54, 3821-35  | 3.8  | 37 |
| 296 | Integration of real-time internal electromagnetic position monitoring coupled with dynamic multileaf collimator tracking: an intensity-modulated radiation therapy feasibility study. <i>International Journal of Radiation Oncology Biology Physics</i> , <b>2009</b> , 74, 868-75  | 4    | 37 |
| 295 | Four-dimensional inverse treatment planning with inclusion of implanted fiducials in IMRT segmented fields. <i>Medical Physics</i> , <b>2009</b> , 36, 2215-21   | 4.4  | 37 |
| 294 | Real-Time 3D Image Guidance Using a Standard LINAC: Measured Motion, Accuracy, and Precision of the First Prospective Clinical Trial of Kilovoltage Intrafraction Monitoring-Guided Gating for Prostate Cancer Radiation Therapy. <i>International Journal of Radiation Oncology Biology Physics</i> , <b>2016</b> , 94, 1015-21 | 4    | 37 |
| 293 | Real-time target position estimation using stereoscopic kilovoltage/megavoltage imaging and external respiratory monitoring for dynamic multileaf collimator tracking. <i>International Journal of Radiation Oncology Biology Physics</i> , <b>2011</b> , 79, 269-78   | 4    | 36 |
| 292 | Technical Note: Experimental results from a prototype high-field inline MRI-linac. <i>Medical Physics</i> , <b>2016</b> , 43, 5188   | 4.4  | 36 |
| 291 | The first clinical implementation of real-time image-guided adaptive radiotherapy using a standard linear accelerator. <i>Radiotherapy and Oncology</i> , <b>2018</b> , 127, 6-11  | 5.3  | 35 |
| 290 | Electron contamination modeling and reduction in a 1 T open bore inline MRI-linac system. <i>Medical Physics</i> , <b>2014</b> , 41, 051708  | 4.4  | 35 |
| 289 | DMLC tracking and gating can improve dose coverage for prostate VMAT. <i>Medical Physics</i> , <b>2014</b> , 41, 0917405   | 4.05 | 35 |
| 288 | Both four-dimensional computed tomography and four-dimensional cone beam computed tomography under-predict lung target motion during radiotherapy. <i>Radiotherapy and Oncology</i> , <b>2019</b> , 135, 65-73   | 5.3  | 33 |
| 287 | Investigating the feasibility of rapid MRI for image-guided motion management in lung cancer radiotherapy. <i>BioMed Research International</i> , <b>2014</b> , 2014, 485067   | 3    | 33 |
| 286 | Improving IMRT dose accuracy via deliverable Monte Carlo optimization for the treatment of head and neck cancer patients. <i>Medical Physics</i> , <b>2006</b> , 33, 4033-43   | 4.4  | 33 |
| 285 | The first clinical implementation of a real-time six degree of freedom target tracking system during radiation therapy based on Kilovoltage Intrafraction Monitoring (KIM). <i>Radiotherapy and Oncology</i> , <b>2017</b> , 123, 37-42  | 5.3  | 32 |
| 284 | Kilovoltage beam Monte Carlo dose calculations in submillimeter voxels for small animal radiotherapy. <i>Medical Physics</i> , <b>2009</b> , 36, 4991-9  | 4.4  | 32 |
| 283 | Locating and targeting moving tumors with radiation beams. <i>Medical Physics</i> , <b>2008</b> , 35, 5684-94  | 4.4  | 32 |
| 282 | Monte Carlo-based dosimetry of head-and-neck patients treated with SIB-IMRT. <i>International Journal of Radiation Oncology Biology Physics</i> , <b>2006</b> , 64, 968-77   | 4    | 32 |
| 281 | The integration of MRI in radiation therapy: collaboration of radiographers and radiation therapists. <i>Journal of Medical Radiation Sciences</i> , <b>2017</b> , 64, 61-68   | 1.5  | 31 |

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| 280 | Image quality in thoracic 4D cone-beam CT: a sensitivity analysis of respiratory signal, binning method, reconstruction algorithm, and projection angular spacing. <i>Medical Physics</i> , <b>2014</b> , 41, 041912   | 4.4 | 31 |
| 279 | A method for robust segmentation of arbitrarily shaped radiopaque structures in cone-beam CT projections. <i>Medical Physics</i> , <b>2011</b> , 38, 2151-6  | 4.4 | 31 |
| 278 | Accuracy in the localization of thoracic and abdominal tumors using respiratory displacement, velocity, and phase. <i>Medical Physics</i> , <b>2009</b> , 36, 386-93   | 4.4 | 30 |
| 277 | Geometric uncertainty of 2D projection imaging in monitoring 3D tumor motion. <i>Physics in Medicine and Biology</i> , <b>2007</b> , 52, 3439-54   | 3.8 | 30 |
| 276 | Review of Real-Time 3-Dimensional Image Guided Radiation Therapy on Standard-Equipped Cancer Radiation Therapy Systems: Are We at the Tipping Point for the Era of Real-Time Radiation Therapy?. <i>International Journal of Radiation Oncology Biology Physics</i> , <b>2018</b> , 102, 922-931 | 4   | 29 |
| 275 | Radiotherapy beyond cancer: target localization in real-time MRI and treatment planning for cardiac radiosurgery. <i>Medical Physics</i> , <b>2014</b> , 41, 120702  | 4.4 | 29 |
| 274 | Accounting for primary electron scatter in x-ray beam convolution calculations. <i>Medical Physics</i> , <b>1995</b> , 22, 1413-8  | 4.4 | 29 |
| 273 | The VAMPIRE challenge: A multi-institutional validation study of CT ventilation imaging. <i>Medical Physics</i> , <b>2019</b> , 46, 1198-1217  | 4.4 | 29 |
| 272 | Stereotactic prostate adaptive radiotherapy utilising kilovoltage intrafraction monitoring: the TROG 15.01 SPARK trial. <i>BMC Cancer</i> , <b>2017</b> , 17, 180  | 4.8 | 28 |
| 271 | Evaluation of 4-dimensional computed tomography to 4-dimensional cone-beam computed tomography deformable image registration for lung cancer adaptive radiation therapy. <i>International Journal of Radiation Oncology Biology Physics</i> , <b>2013</b> , 86, 372-9                            | 4   | 28 |
| 270 | Real-time soft tissue motion estimation for lung tumors during radiotherapy delivery. <i>Medical Physics</i> , <b>2013</b> , 40, 091713  | 4.4 | 28 |
| 269 | A deliverable four-dimensional intensity-modulated radiation therapy-planning method for dynamic multileaf collimator tumor tracking delivery. <i>International Journal of Radiation Oncology Biology Physics</i> , <b>2008</b> , 71, 1526-36  | 4   | 28 |
| 268 | Online 4D ultrasound guidance for real-time motion compensation by MLC tracking. <i>Medical Physics</i> , <b>2016</b> , 43, 5695   | 4.4 | 28 |
| 267 | A Bayesian approach for three-dimensional markerless tumor tracking using kV imaging during lung radiotherapy. <i>Physics in Medicine and Biology</i> , <b>2017</b> , 62, 3065-3080  | 3.8 | 27 |
| 266 | Measuring interfraction and intrafraction lung function changes during radiation therapy using four-dimensional cone beam CT ventilation imaging. <i>Medical Physics</i> , <b>2015</b> , 42, 1255-67   | 4.4 | 27 |
| 265 | Estimating lung ventilation directly from 4D CT Hounsfield unit values. <i>Medical Physics</i> , <b>2016</b> , 43, 33  | 4.4 | 27 |
| 264 | Tracking latency in image-based dynamic MLC tracking with direct image access. <i>Acta Oncologica</i> , <b>2011</b> , 50, 952-9  | 3.2 | 27 |
| 263 | Inverse planning for four-dimensional (4D) volumetric modulated arc therapy. <i>Medical Physics</i> , <b>2010</b> , 37, 5627-33  | 4.4 | 26 |

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|-----|---|-----|----|
| 262 | On the accuracy of a moving average algorithm for target tracking during radiation therapy treatment delivery. <i>Medical Physics</i> , <b>2008</b> , 35, 2356-65   | 4.4 | 26 |
| 261 | Feasibility study on 3D image reconstruction from 2D orthogonal cine-MRI for MRI-guided radiotherapy. <i>Journal of Medical Imaging and Radiation Oncology</i> , <b>2018</b> , 62, 389-400                        | 1.7 | 25 |
| 260 | Audiovisual Biofeedback Improves Cine-Magnetic Resonance Imaging Measured Lung Tumor Motion Consistency. <i>International Journal of Radiation Oncology Biology Physics</i> , <b>2016</b> , 94, 628-36            | 4   | 25 |
| 259 | Quantification of artifact reduction with real-time cine four-dimensional computed tomography acquisition methods. <i>International Journal of Radiation Oncology Biology Physics</i> , <b>2010</b> , 76, 1242-50 | 4   | 25 |
| 258 | Photon-beam subsource sensitivity to the initial electron-beam parameters. <i>Medical Physics</i> , <b>2005</b> , 32, 1164-75   | 4.4 | 25 |
| 257 | CT ventilation functional image-based IMRT treatment plans are comparable to SPECT ventilation functional image-based plans. <i>Radiotherapy and Oncology</i> , <b>2016</b> , 118, 521-7                          | 5.3 | 25 |
| 256 | Breathing guidance in radiation oncology and radiology: A systematic review of patient and healthy volunteer studies. <i>Medical Physics</i> , <b>2015</b> , 42, 5490-509   | 4.4 | 24 |
| 255 | Point/counterpoint. Respiratory gating for radiation therapy is not ready for prime time. <i>Medical Physics</i> , <b>2007</b> , 34, 867-70   | 4.4 | 24 |
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