# Joseph O Deasy

## List of Publications by Citations



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| 263 papers | 13,023 citations | 50 h-index | 109 g-index |
| 293 ext. papers | 15,352 ext. citations | 3.5 avg, IF | 6.29 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 263 | Use of normal tissue complication probability models in the clinic. *International Journal of Radiation Oncology Biology Physics*, **2010**, 76, S10-9 | 4 | 1027 |
| 262 | Tomotherapy: a new concept for the delivery of dynamic conformal radiotherapy. *Medical Physics*, **1993**, 20, 1709-19 | 4.4 | 802 |
| 261 | Radiation dose-volume effects in the lung. *International Journal of Radiation Oncology Biology Physics*, **2010**, 76, S70-6 | 4 | 704 |
| 260 | Quantitative Analyses of Normal Tissue Effects in the Clinic (QUANTEC): an introduction to the scientific issues. *International Journal of Radiation Oncology Biology Physics*, **2010**, 76, S3-9 | 4 | 639 |
| 259 | CERR: a computational environment for radiotherapy research. *Medical Physics*, **2003**, 30, 979-85 | 4.4 | 601 |
| 258 | Radiation dose-volume effects in radiation-induced rectal injury. *International Journal of Radiation Oncology Biology Physics*, **2010**, 76, S123-9 | 4 | 509 |
| 257 | A prospective study of salivary function sparing in patients with head-and-neck cancers receiving intensity-modulated or three-dimensional radiation therapy: initial results. *International Journal of Radiation Oncology Biology Physics*, **2001**, 49, 907-16 | 4 | 475 |
| 256 | Exploring feature-based approaches in PET images for predicting cancer treatment outcomes. *Pattern Recognition*, **2009**, 42, 1162-1171 | 7.7 | 372 |
| 255 | Radiotherapy dose-volume effects on salivary gland function. *International Journal of Radiation Oncology Biology Physics*, **2010**, 76, S58-63 | 4 | 367 |
| 254 | A microRNA expression signature for cervical cancer prognosis. *Cancer Research*, **2010**, 70, 1441-8 | 10.1 | 248 |
| 253 | Automatic classification of prostate cancer Gleason scores from multiparametric magnetic resonance images. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, E6265-73 | 11.5 | 241 |
| 252 | Dose-volume modeling of salivary function in patients with head-and-neck cancer receiving radiotherapy. *International Journal of Radiation Oncology Biology Physics*, **2005**, 62, 1055-69 | 4 | 204 |
| 251 | Intensity-modulated radiation therapy for oropharyngeal carcinoma: impact of tumor volume. *International Journal of Radiation Oncology Biology Physics*, **2004**, 59, 43-50 | 4 | 195 |
| 250 | Radiation dose-volume effects in the esophagus. *International Journal of Radiation Oncology Biology Physics*, **2010**, 76, S86-93 | 4 | 190 |
| 249 | Modeling radiation pneumonitis risk with clinical, dosimetric, and spatial parameters. *International Journal of Radiation Oncology Biology Physics*, **2006**, 65, 112-24 | 4 | 161 |
| 248 | The use and QA of biologically related models for treatment planning: short report of the TG-166 of the therapy physics committee of the AAPM. *Medical Physics*, **2012**, 39, 1386-409 | 4.4 | 153 |
| 247 | The lessons of QUANTEC: recommendations for reporting and gathering data on dose-volume dependencies of treatment outcome. *International Journal of Radiation Oncology Biology Physics*, **2010**, 76, S155-60 | 4 | 148 |

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| 246 | Multivariable modeling of radiotherapy outcomes, including dose-volume and clinical factors. *International Journal of Radiation Oncology Biology Physics*, **2006**, 64, 1275-86 | 4 | 134 |
| 245 | A nomogram to predict radiation pneumonitis, derived from a combined analysis of RTOG 9311 and institutional data. *International Journal of Radiation Oncology Biology Physics*, **2007**, 69, 985-92 | 4 | 127 |
| 244 | Sparing the region of the salivary gland containing stem cells preserves saliva production after radiotherapy for head and neck cancer. *Science Translational Medicine*, **2015**, 7, 305ra147 | 17.5 | 123 |
| 243 | Dosimetric correlates for acute esophagitis in patients treated with radiotherapy for lung carcinoma. *International Journal of Radiation Oncology Biology Physics*, **2004**, 58, 1106-13 | 4 | 119 |
| 242 | An investigation of tomotherapy beam delivery. *Medical Physics*, **1997**, 24, 425-36 | 4.4 | 112 |
| 241 | Multiple local minima in radiotherapy optimization problems with dose-volume constraints. *Medical Physics*, **1997**, 24, 1157-61 | 4.4 | 111 |
| 240 | Accurate accumulation of dose for improved understanding of radiation effects in normal tissue. *International Journal of Radiation Oncology Biology Physics*, **2010**, 76, S135-9 | 4 | 110 |
| 239 | Radiation dose-volume effects and the penile bulb. *International Journal of Radiation Oncology Biology Physics*, **2010**, 76, S130-4 | 4 | 102 |
| 238 | Survival among men with clinically localized prostate cancer treated with radical prostatectomy or radiation therapy in the prostate specific antigen era. *Journal of Urology*, **2012**, 187, 1259-65 | 2.5 | 101 |
| 237 | Heart irradiation as a risk factor for radiation pneumonitis. *Acta Oncologica*, **2011**, 50, 51-60 | 3.2 | 99 |
| 236 | Impact of dose to the bladder trigone on long-term urinary function after high-dose intensity modulated radiation therapy for localized prostate cancer. *International Journal of Radiation Oncology Biology Physics*, **2014**, 88, 339-44 | 4 | 98 |
| 235 | Breast cancer subtype intertumor heterogeneity: MRI-based features predict results of a genomic assay. *Journal of Magnetic Resonance Imaging*, **2015**, 42, 1398-406 | 5.6 | 97 |
| 234 | Improving normal tissue complication probability models: the need to adopt a "data-pooling" culture. *International Journal of Radiation Oncology Biology Physics*, **2010**, 76, S151-4 | 4 | 90 |
| 233 | Breast cancer molecular subtype classifier that incorporates MRI features. *Journal of Magnetic Resonance Imaging*, **2016**, 44, 122-9 | 5.6 | 89 |
| 232 | Concurrent multimodality image segmentation by active contours for radiotherapy treatment planning. *Medical Physics*, **2007**, 34, 4738-49 | 4.4 | 87 |
| 231 | Intravoxel incoherent motion diffusion-weighted MRI at 3.0 T differentiates malignant breast lesions from benign lesions and breast parenchyma. *Journal of Magnetic Resonance Imaging*, **2014**, 40, 813-23 | 5.6 | 85 |
| 230 | Multiple Resolution Residually Connected Feature Streams for Automatic Lung Tumor Segmentation From CT Images. *IEEE Transactions on Medical Imaging*, **2019**, 38, 134-144 | 11.7 | 81 |
| 229 | The generalized equivalent uniform dose function as a basis for intensity-modulated treatment planning. *Physics in Medicine and Biology*, **2002**, 47, 3579-89 | 3.8 | 80 |

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| 228 | 4D-CT motion estimation using deformable image registration and 5D respiratory motion modeling. *Medical Physics*, **2008**, 35, 4577-90 | 4.4 | 77 |
| 227 | Robust radiotherapy planning. *Physics in Medicine and Biology*, **2018**, 63, 22TR02 | 3.8 | 75 |
| 226 | A fast inverse consistent deformable image registration method based on symmetric optical flow computation. *Physics in Medicine and Biology*, **2008**, 53, 6143-65 | 3.8 | 74 |
| 225 | Technical note: DIRART--A software suite for deformable image registration and adaptive radiotherapy research. *Medical Physics*, **2011**, 38, 67-77 | 4.4 | 70 |
| 224 | IMRT QA using machine learning: A multi-institutional validation. *Journal of Applied Clinical Medical Physics*, **2017**, 18, 279-284 | 2.3 | 69 |
| 223 | IMRT treatment planning based on prioritizing prescription goals. *Physics in Medicine and Biology*, **2007**, 52, 1675-92 | 3.8 | 69 |
| 222 | Radiomics analysis of pulmonary nodules in low-dose CT for early detection of lung cancer. *Medical Physics*, **2018**, 45, 1537-1549 | 4.4 | 68 |
| 221 | Improvement in toxicity in high risk prostate cancer patients treated with image-guided intensity-modulated radiotherapy compared to 3D conformal radiotherapy without daily image guidance. *Radiation Oncology*, **2014**, 9, 44 | 4.2 | 67 |
| 220 | Technical Note: Extension of CERR for computational radiomics: A comprehensive MATLAB platform for reproducible radiomics research. *Medical Physics*, **2018**, 45, 3713 | 4.4 | 66 |
| 219 | A novel representation of inter-site tumour heterogeneity from pre-treatment computed tomography textures classifies ovarian cancers by clinical outcome. *European Radiology*, **2017**, 27, 3991-4001 | 8 | 65 |
| 218 | A Validated Prediction Model for Overall Survival From Stage III Non-Small Cell Lung Cancer: Toward Survival Prediction for Individual Patients. *International Journal of Radiation Oncology Biology Physics*, **2015**, 92, 935-44 | 4 | 63 |
| 217 | Tumor-aware, Adversarial Domain Adaptation from CT to MRI for Lung Cancer Segmentation. *Lecture Notes in Computer Science*, **2018**, 11071, 777-785 | 0.9 | 63 |
| 216 | Development, external validation and clinical usefulness of a practical prediction model for radiation-induced dysphagia in lung cancer patients. *Radiotherapy and Oncology*, **2010**, 97, 455-61 | 5.3 | 62 |
| 215 | Predicting radiotherapy outcomes using statistical learning techniques. *Physics in Medicine and Biology*, **2009**, 54, S9-S30 | 3.8 | 59 |
| 214 | Biomarkers and surrogate endpoints for normal-tissue effects of radiation therapy: the importance of dose-volume effects. *International Journal of Radiation Oncology Biology Physics*, **2010**, 76, S145-50 | 4 | 55 |
| 213 | Geometric interpretation of the gamma dose distribution comparison technique: interpolation-free calculation. *Medical Physics*, **2008**, 35, 879-87 | 4.4 | 50 |
| 212 | Impact of image preprocessing on the scanner dependence of multi-parametric MRI radiomic features and covariate shift in multi-institutional glioblastoma datasets. *Physics in Medicine and Biology*, **2019**, 64, 165011 | 3.8 | 49 |
| 211 | Deblurring of breathing motion artifacts in thoracic PET images by deconvolution methods. *Medical Physics*, **2006**, 33, 3587-600 | 4.4 | 49 |

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| 210 | Absence of multiple local minima effects in intensity modulated optimization with dose-volume constraints. *Physics in Medicine and Biology*, **2003**, 48, 183-210 | 3.8 | 49 |
| 209 | Modeling the risk of radiation-induced acute esophagitis for combined Washington University and RTOG trial 93-11 lung cancer patients. *International Journal of Radiation Oncology Biology Physics*, **2012**, 82, 1674-9 | 4 | 48 |
| 208 | STROGAR - STrengthening the Reporting Of Genetic Association studies in Radiogenomics. *Radiotherapy and Oncology*, **2014**, 110, 182-8 | 5.3 | 47 |
| 207 | A Bayesian network approach for modeling local failure in lung cancer. *Physics in Medicine and Biology*, **2011**, 56, 1635-51 | 3.8 | 46 |
| 206 | Methodological issues in radiation dose-volume outcome analyses: summary of a joint AAPM/NIH workshop. *Medical Physics*, **2002**, 29, 2109-27 | 4.4 | 46 |
| 205 | Normal Tissue Complication Probability (NTCP) modeling of late rectal bleeding following external beam radiotherapy for prostate cancer: A Test of the QUANTEC-recommended NTCP model. *Acta Oncologica*, **2010**, 49, 1040-4 | 3.2 | 45 |
| 204 | Progress toward a microradiation therapy small animal conformal irradiator. *Medical Physics*, **2006**, 33, 3834-45 | 4.4 | 45 |
| 203 | Treatment planning constraints to avoid xerostomia in head-and-neck radiotherapy: an independent test of QUANTEC criteria using a prospectively collected dataset. *International Journal of Radiation Oncology Biology Physics*, **2012**, 82, 1108-14 | 4 | 44 |
| 202 | Datamining approaches for modeling tumor control probability. *Acta Oncologica*, **2010**, 49, 1363-73 | 3.2 | 43 |
| 201 | The Prediction of Radiotherapy Toxicity Using Single Nucleotide Polymorphism-Based Models: A Step Toward Prevention. *Seminars in Radiation Oncology*, **2015**, 25, 281-91 | 5.5 | 41 |
| 200 | Machine Learning on a Genome-wide Association Study to Predict Late Genitourinary Toxicity After Prostate Radiation Therapy. *International Journal of Radiation Oncology Biology Physics*, **2018**, 101, 128-135 | 4 | 41 |
| 199 | Multi-institutional validation of a novel textural analysis tool for preoperative stratification of suspected thyroid tumors on diffusion-weighted MRI. *Magnetic Resonance in Medicine*, **2016**, 75, 1708-16 | 4.4 | 39 |
| 198 | Comparing primary tumors and metastatic nodes in head and neck cancer using intravoxel incoherent motion imaging: a preliminary experience. *Journal of Computer Assisted Tomography*, **2013**, 37, 346-52 | 2.2 | 38 |
| 197 | Predictive modeling of outcomes following definitive chemoradiotherapy for oropharyngeal cancer based on FDG-PET image characteristics. *Physics in Medicine and Biology*, **2017**, 62, 5327-5343 | 3.8 | 37 |
| 196 | Predicting hypoxia status using a combination of contrast-enhanced computed tomography and [F]-Fluorodeoxyglucose positron emission tomography radiomics features. *Radiotherapy and Oncology*, **2018**, 127, 36-42 | 5.3 | 37 |
| 195 | A bioinformatics approach for biomarker identification in radiation-induced lung inflammation from limited proteomics data. *Journal of Proteome Research*, **2011**, 10, 1406-15 | 5.6 | 36 |
| 194 | Deformable registration of abdominal kilovoltage treatment planning CT and tomotherapy daily megavoltage CT for treatment adaptation. *Medical Physics*, **2009**, 36, 329-38 | 4.4 | 36 |
| 193 | Combining multiple models to generate consensus: application to radiation-induced pneumonitis prediction. *Medical Physics*, **2008**, 35, 5098-109 | 4.4 | 36 |

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| 192 | Qualitative evaluation of fiducial markers for radiotherapy imaging. *Technology in Cancer Research and Treatment*, **2015**, 14, 298-304 | 2.7 | 35 |
| 191 | An Antitumor Immune Response Is Evoked by Partial-Volume Single-Dose Radiation in 2 Murine Models. *International Journal of Radiation Oncology Biology Physics*, **2019**, 103, 697-708 | 4 | 35 |
| 190 | Parotid gland fat related Magnetic Resonance image biomarkers improve prediction of late radiation-induced xerostomia. *Radiotherapy and Oncology*, **2018**, 128, 459-466 | 5.3 | 35 |
| 189 | Intravoxel incoherent motion diffusion-weighted MRI during chemoradiation therapy to characterize and monitor treatment response in human papillomavirus head and neck squamous cell carcinoma. *Journal of Magnetic Resonance Imaging*, **2017**, 45, 1013-1023 | 5.6 | 34 |
| 188 | Complication probability models for radiation-induced heart valvular dysfunction: do heart-lung interactions play a role?. *PLoS ONE*, **2014**, 9, e111753 | 3.7 | 33 |
| 187 | Patterns and predictors of amelioration of genitourinary toxicity after high-dose intensity-modulated radiation therapy for localized prostate cancer: implications for defining postradiotherapy urinary toxicity. *European Urology*, **2013**, 64, 931-8 | 10.2 | 32 |
| 186 | Clinical and dosimetric predictors of acute hematologic toxicity in rectal cancer patients undergoing chemoradiotherapy. *Radiotherapy and Oncology*, **2014**, 113, 29-34 | 5.3 | 32 |
| 185 | Quantitative apparent diffusion coefficient measurement obtained by 3.0Tesla MRI as a potential noninvasive marker of tumor aggressiveness in breast cancer. *European Journal of Radiology*, **2016**, 85, 1651-8 | 4.7 | 32 |
| 184 | A Voxel-Based Approach to Explore Local Dose Differences Associated With Radiation-Induced Lung Damage. *International Journal of Radiation Oncology Biology Physics*, **2016**, 96, 127-33 | 4 | 31 |
| 183 | Estimate of the impact of FDG-avidity on the dose required for head and neck radiotherapy local control. *Radiotherapy and Oncology*, **2014**, 111, 340-7 | 5.3 | 31 |
| 182 | Patch-based generative adversarial neural network models for head and neck MR-only planning. *Medical Physics*, **2020**, 47, 626-642 | 4.4 | 31 |
| 181 | Deep learning-based auto-segmentation of targets and organs-at-risk for magnetic resonance imaging only planning of prostate radiotherapy. *Physics and Imaging in Radiation Oncology*, **2019**, 12, 80-86 | 3.1 | 31 |
| 180 | Direct Comparison of Respiration-Correlated Four-Dimensional Magnetic Resonance Imaging Reconstructed Using Concurrent Internal Navigator and External Bellows. *International Journal of Radiation Oncology Biology Physics*, **2017**, 97, 596-605 | 4 | 30 |
| 179 | Dose-volume factors correlating with trismus following chemoradiation for head and neck cancer. *Acta Oncologica*, **2016**, 55, 99-104 | 3.2 | 29 |
| 178 | Relationships between dose to the gastro-intestinal tract and patient-reported symptom domains after radiotherapy for localized prostate cancer. *Acta Oncologica*, **2015**, 54, 1326-34 | 3.2 | 28 |
| 177 | Motion correction of multi-b-value diffusion-weighted imaging in the liver. *Academic Radiology*, **2012**, 19, 1573-80 | 4.3 | 28 |
| 176 | A treatment planning study comparing HDR and AGIMRT for cervical cancer. *Medical Physics*, **2004**, 31, 734-43 | 4.4 | 28 |
| 175 | Dosimetric Predictors of Radiation-Induced Vaginal Stenosis After Pelvic Radiation Therapy for Rectal and Anal Cancer. *International Journal of Radiation Oncology Biology Physics*, **2015**, 92, 548-54 | 4 | 27 |

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| 174 | Using diffusion-weighted MRI to predict aggressive histological features in papillary thyroid carcinoma: a novel tool for pre-operative risk stratification in thyroid cancer. *Thyroid*, **2015**, 25, 672-80 | 6.2 | 27 |
| 173 | Predictive treatment management: incorporating a predictive tumor response model into robust prospective treatment planning for non-small cell lung cancer. *International Journal of Radiation Oncology Biology Physics*, **2014**, 88, 446-52 | 4 | 27 |
| 172 | Feasibility of small animal cranial irradiation with the microRT system. *Medical Physics*, **2008**, 35, 4735-43 | 4.4 | 27 |
| 171 | Accelerating Monte Carlo simulations of radiation therapy dose distributions using wavelet threshold de-noising. *Medical Physics*, **2002**, 29, 2366-73 | 4.4 | 27 |
| 170 | A Systematic Post-QUANTEC Review of Tolerance Doses for Late Toxicity After Prostate Cancer Radiation Therapy. *International Journal of Radiation Oncology Biology Physics*, **2018**, 102, 1514-1532 | 4 | 27 |
| 169 | Modeling the Cellular Response of Lung Cancer to Radiation Therapy for a Broad Range of Fractionation Schedules. *Clinical Cancer Research*, **2017**, 23, 5469-5479 | 12.9 | 26 |
| 168 | Preoperative MRI-radiomics features improve prediction of survival in glioblastoma patients over MGMT methylation status alone. *Oncotarget*, **2019**, 10, 660-672 | 3.3 | 25 |
| 167 | Lymphocyte-Sparing Radiotherapy: The Rationale for Protecting Lymphocyte-rich Organs When Combining Radiotherapy With Immunotherapy. *Seminars in Radiation Oncology*, **2020**, 30, 187-193 | 5.5 | 25 |
| 166 | A machine learning model that classifies breast cancer pathologic complete response on MRI post-neoadjuvant chemotherapy. *Breast Cancer Research*, **2020**, 22, 57 | 8.3 | 25 |
| 165 | Comments on the use of the Lyman-Kutcher-Burman model to describe tissue response to nonuniform irradiation. *International Journal of Radiation Oncology Biology Physics*, **2000**, 47, 1458-60 | 4 | 25 |
| 164 | Multiatlas approach with local registration goodness weighting for MRI-based electron density mapping of head and neck anatomy. *Medical Physics*, **2017**, 44, 3706-3717 | 4.4 | 24 |
| 163 | Operations research applied to radiotherapy, an NCI-NSF-sponsored workshop February 7-9, 2002. *International Journal of Radiation Oncology Biology Physics*, **2003**, 57, 762-8 | 4 | 24 |
| 162 | Uncertainties in model-based outcome predictions for treatment planning. *International Journal of Radiation Oncology Biology Physics*, **2001**, 51, 1389-99 | 4 | 24 |
| 161 | Identifying radiation-induced survivorship syndromes affecting bowel health in a cohort of gynecological cancer survivors. *PLoS ONE*, **2017**, 12, e0171461 | 3.7 | 23 |
| 160 | Feasibility of in situ, high-resolution correlation of tracer uptake with histopathology by quantitative autoradiography of biopsy specimens obtained under 18F-FDG PET/CT guidance. *Journal of Nuclear Medicine*, **2015**, 56, 538-44 | 8.9 | 22 |
| 159 | A Combination of Radiation and the Hypoxia-Activated Prodrug Evofosfamide (TH-302) is Efficacious against a Human Orthotopic Pancreatic Tumor Model. *Translational Oncology*, **2017**, 10, 760-765 | 4.8 | 22 |
| 158 | Denoising of electron beam Monte Carlo dose distributions using digital filtering techniques. *Physics in Medicine and Biology*, **2000**, 45, 1765-79 | 3.8 | 22 |
| 157 | Cross-modality (CT-MRI) prior augmented deep learning for robust lung tumor segmentation from small MR datasets. *Medical Physics*, **2019**, 46, 4392-4404 | 4.4 | 21 |

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| 156 | Predicting radiation-induced valvular heart damage. *Acta Oncologica*, **2015**, 54, 1796-804 | 3.2 | 21 |
| 155 | A prospective study of differences in duodenum compared to remaining small bowel motion between radiation treatments: implications for radiation dose escalation in carcinoma of the pancreas. *Radiation Oncology*, **2006**, 1, 33 | 4.2 | 21 |
| 154 | Optimization of the temporal pattern of radiation: an IMRT based study. *International Journal of Radiation Oncology Biology Physics*, **2006**, 66, 898-905 | 4 | 21 |
| 153 | Partial tumor boosts: even more attractive than theory predicts?. *International Journal of Radiation Oncology Biology Physics*, **2001**, 51, 279-80 | 4 | 21 |
| 152 | Repeatability Investigation of Reduced Field-of-View Diffusion-Weighted Magnetic Resonance Imaging on Thyroid Glands. *Journal of Computer Assisted Tomography*, **2015**, 39, 334-9 | 2.2 | 21 |
| 151 | Modeling the Impact of Cardiopulmonary Irradiation on Overall Survival in NRG Oncology Trial RTOG 0617. *Clinical Cancer Research*, **2020**, 26, 4643-4650 | 12.9 | 20 |
| 150 | Appearance Constrained Semi-Automatic Segmentation from DCE-MRI is Reproducible and Feasible for Breast Cancer Radiomics: A Feasibility Study. *Scientific Reports*, **2018**, 8, 4838 | 4.9 | 20 |
| 149 | Image-based Data Mining to Probe Dosimetric Correlates of Radiation-induced Trismus. *International Journal of Radiation Oncology Biology Physics*, **2018**, 102, 1330-1338 | 4 | 20 |
| 148 | Dose/volume-response relations for rectal morbidity using planned and simulated motion-inclusive dose distributions. *Radiotherapy and Oncology*, **2013**, 109, 388-93 | 5.3 | 20 |
| 147 | Urinary bladder dose-response relationships for patient-reported genitourinary morbidity domains following prostate cancer radiotherapy. *Radiotherapy and Oncology*, **2016**, 119, 117-22 | 5.3 | 20 |
| 146 | Incorporating spatial dose metrics in machine learning-based normal tissue complication probability (NTCP) models of severe acute dysphagia resulting from head and neck radiotherapy. *Clinical and Translational Radiation Oncology*, **2018**, 8, 27-39 | 4.6 | 20 |
| 145 | Novel Super-Resolution Approach to Time-Resolved Volumetric 4-Dimensional Magnetic Resonance Imaging With High Spatiotemporal Resolution for Multi-Breathing Cycle Motion Assessment. *International Journal of Radiation Oncology Biology Physics*, **2017**, 98, 454-462 | 4 | 19 |
| 144 | Computational methods using genome-wide association studies to predict radiotherapy complications and to identify correlative molecular processes. *Scientific Reports*, **2017**, 7, 43381 | 4.9 | 19 |
| 143 | Toward personalized dose-prescription in locally advanced non-small cell lung cancer: Validation of published normal tissue complication probability models. *Radiotherapy and Oncology*, **2019**, 138, 45-51 | 5.3 | 19 |
| 142 | Predictors of acute toxicities during definitive chemoradiation using intensity-modulated radiotherapy for anal squamous cell carcinoma. *Acta Oncologica*, **2016**, 55, 208-16 | 3.2 | 19 |
| 141 | The distance discordance metric-a novel approach to quantifying spatial uncertainties in intra- and inter-patient deformable image registration. *Physics in Medicine and Biology*, **2014**, 59, 733-46 | 3.8 | 19 |
| 140 | A research agenda for radiation oncology: results of the radiation oncology institute's comprehensive research needs assessment. *International Journal of Radiation Oncology Biology Physics*, **2012**, 84, 318-22 | 4 | 19 |
| 139 | Toward predicting the evolution of lung tumors during radiotherapy observed on a longitudinal MR imaging study via a deep learning algorithm. *Medical Physics*, **2019**, 46, 4699-4707 | 4.4 | 18 |

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| 138 | Organoids Reveal That Inherent Radiosensitivity of Small and Large Intestinal Stem Cells Determines Organ Sensitivity. *Cancer Research*, **2020**, 80, 1219-1227 | 10.1 | 18 |
| 137 | Robust and interpretable PAM50 reclassification exhibits survival advantage for myoepithelial and immune phenotypes. *Npj Breast Cancer*, **2019**, 5, 30 | 7.8 | 17 |
| 136 | Automated intensity modulated treatment planning: The expedited constrained hierarchical optimization (ECHO) system. *Medical Physics*, **2019**, 46, 2944-2954 | 4.4 | 17 |
| 135 | Radiation pneumonitis in lung cancer patients treated with chemoradiation plus durvalumab. *Cancer Medicine*, **2020**, 9, 4622-4631 | 4.8 | 17 |
| 134 | Statistical simulations to estimate motion-inclusive dose-volume histograms for prediction of rectal morbidity following radiotherapy. *Acta Oncologica*, **2013**, 52, 666-75 | 3.2 | 17 |
| 133 | Dosimetric evaluation of an atlas-based synthetic CT generation approach for MR-only radiotherapy of pelvis anatomy. *Journal of Applied Clinical Medical Physics*, **2019**, 20, 101-109 | 2.3 | 17 |
| 132 | Treatment planning evaluation and optimization should be biologically and not dose/volume based. *Medical Physics*, **2015**, 42, 2753-6 | 4.4 | 16 |
| 131 | A bioinformatics filtering strategy for identifying radiation response biomarker candidates. *PLoS ONE*, **2012**, 7, e38870 | 3.7 | 16 |
| 130 | Bioinformatics methods for learning radiation-induced lung inflammation from heterogeneous retrospective and prospective data. *Journal of Biomedicine and Biotechnology*, **2009**, 2009, 892863 | | 16 |
| 129 | Tolerance doses for late adverse events after hypofractionated radiotherapy for prostate cancer on trial NRG Oncology/RTOG 0415. *Radiotherapy and Oncology*, **2019**, 135, 19-24 | 5.3 | 15 |
| 128 | Retrospective monte carlo dose calculations with limited beam weight information. *Medical Physics*, **2007**, 34, 334-46 | 4.4 | 15 |
| 127 | A Magnetic Resonance Imaging-based approach to quantify radiation-induced normal tissue injuries applied to trismus in head and neck cancer. *Physics and Imaging in Radiation Oncology*, **2017**, 1, 34-40 | 3.1 | 14 |
| 126 | Beyond the margin recipe: the probability of correct target dosage and tumor control in the presence of a dose limiting structure. *Physics in Medicine and Biology*, **2017**, 62, 7874-7888 | 3.8 | 14 |
| 125 | Spatial rectal dose/volume metrics predict patient-reported gastro-intestinal symptoms after radiotherapy for prostate cancer. *Acta Oncologica*, **2017**, 56, 1507-1513 | 3.2 | 14 |
| 124 | Visual Analysis of the Daily QA Results of Photon and Electron Beams of a Trilogy Linac over a Five-year Period. *International Journal of Medical Physics, Clinical Engineering and Radiation Oncology*, **2015**, 4, 290-299 | 0.1 | 14 |
| 123 | Technical note: deformable image registration on partially matched images for radiotherapy applications. *Medical Physics*, **2010**, 37, 141-5 | 4.4 | 14 |
| 122 | Image-based modeling of normal tissue complication probability for radiation therapy. *Cancer Treatment and Research*, **2008**, 139, 215-56 | 3.5 | 14 |
| 121 | Cardio-pulmonary substructure segmentation of radiotherapy computed tomography images using convolutional neural networks for clinical outcomes analysis. *Physics and Imaging in Radiation Oncology*, **2020**, 14, 61-66 | 3.1 | 13 |

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| 120 | Spatial signature of dose patterns associated with acute radiation-induced lung damage in lung cancer patients treated with stereotactic body radiation therapy. *Physics in Medicine and Biology*, **2019**, 64, 155006 | 3.8 | 13 |
| 119 | Investigating the Robustness Neighborhood Gray Tone Difference Matrix and Gray Level Co-occurrence Matrix Radiomic Features on Clinical Computed Tomography Systems Using Anthropomorphic Phantoms: Evidence From a Multivendor Study. *Journal of Computer Assisted Tomography*, **2017**, 41, 995-1001 | 2.2 | 13 |
| 118 | Beamlet dose distribution compression and reconstruction using wavelets for intensity modulated treatment planning. *Medical Physics*, **2004**, 31, 368-75 | 4.4 | 13 |
| 117 | Inference of radio-responsive gene regulatory networks using the graphical lasso algorithm. *BMC Bioinformatics*, **2014**, 15 Suppl 7, S5 | 3.6 | 12 |
| 116 | Beyond bixels: generalizing the optimization parameters for intensity modulated radiation therapy. *Medical Physics*, **2002**, 29, 2298-304 | 4.4 | 12 |
| 115 | Are unsatisfactory outcomes after concurrent chemoradiotherapy for locally advanced non-small cell lung cancer due to treatment-related immunosuppression?. *Radiotherapy and Oncology*, **2020**, 143, 51-57 | 5.3 | 12 |
| 114 | Clinical implementation of deep learning contour autosegmentation for prostate radiotherapy. *Radiotherapy and Oncology*, **2021**, 159, 1-7 | 5.3 | 12 |
| 113 | Functional Data Analysis Applied to Modeling of Severe Acute Mucositis and Dysphagia Resulting From Head and Neck Radiation Therapy. *International Journal of Radiation Oncology Biology Physics*, **2016**, 96, 820-831 | 4 | 12 |
| 112 | Independent test of a model to predict severe acute esophagitis. *Advances in Radiation Oncology*, **2017**, 2, 37-43 | 3.3 | 11 |
| 111 | Inter-institutional analysis demonstrates the importance of lower than previously anticipated dose regions to prevent late rectal bleeding following prostate radiotherapy. *Radiotherapy and Oncology* , **2018**, 127, 88-95 | 5.3 | 11 |
| 110 | Validating a Predictive Atlas of Tumor Shrinkage for Adaptive Radiotherapy of Locally Advanced Lung Cancer. *International Journal of Radiation Oncology Biology Physics*, **2018**, 102, 978-986 | 4 | 11 |
| 109 | Image-Based Modeling of Normal Tissue Complication Probability for Radiation Therapy. *Cancer Treatment and Research*, **2008**, 211-252 | 3.5 | 11 |
| 108 | PSIGAN: Joint Probabilistic Segmentation and Image Distribution Matching for Unpaired Cross-Modality Adaptation-Based MRI Segmentation. *IEEE Transactions on Medical Imaging*, **2020**, 39, 4071-4084 | 11.7 | 11 |
| 107 | The role of parotid gland irradiation in the development of severe hyposalivation (xerostomia) after intensity-modulated radiation therapy for head and neck cancer: Temporal patterns, risk factors, and testing the QUANTEC guidelines. *Journal of Cranio-Maxillo-Facial Surgery*, **2017**, 45, 595-600 | 3.6 | 10 |
| 106 | Associations between volume changes and spatial dose metrics for the urinary bladder during local versus pelvic irradiation for prostate cancer. *Acta Oncologica*, **2017**, 56, 884-890 | 3.2 | 10 |
| 105 | A geometric atlas to predict lung tumor shrinkage for radiotherapy treatment planning. *Physics in Medicine and Biology*, **2017**, 62, 702-714 | 3.8 | 10 |
| 104 | Radiomic analysis identifies tumor subtypes associated with distinct molecular and microenvironmental factors in head and neck squamous cell carcinoma. *Oral Oncology*, **2020**, 110, 104877 | 4.4 | 10 |
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