

# Joseph O Deasy

## List of Publications by Year in descending order

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272  
papers

17,192  
citations

24978  
57  
h-index

16605  
123  
g-index

293  
all docs

293  
docs citations

293  
times ranked

13821  
citing authors

#	ARTICLE	IF	CITATIONS
1	Use of Normal Tissue Complication Probability Models in the Clinic. International Journal of Radiation Oncology Biology Physics, 2010, 76, S10-S19.	0.4	1,376
2	Tomotherapy: A new concept for the delivery of dynamic conformal radiotherapy. Medical Physics, 1993, 20, 1709-1719.	1.6	931
3	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-S9.	0.4	879
4	Radiation Dose-Volume Effects in the Lung. International Journal of Radiation Oncology Biology Physics, 2010, 76, S70-S76.	0.4	878
5	CERR: A computational environment for radiotherapy research. Medical Physics, 2003, 30, 979-985.	1.6	719
6	Radiation Dose-Volume Effects in Radiation-Induced Rectal Injury. International Journal of Radiation Oncology Biology Physics, 2010, 76, S123-S129.	0.4	621
7	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, 907-916.	0.4	549
8	Radiotherapy Dose-Volume Effects on Salivary Gland Function. International Journal of Radiation Oncology Biology Physics, 2010, 76, S58-S63.	0.4	462
9	Exploring feature-based approaches in PET images for predicting cancer treatment outcomes. Pattern Recognition, 2009, 42, 1162-1171.	5.1	424
10	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.	3.3	322
11	A MicroRNA Expression Signature for Cervical Cancer Prognosis. Cancer Research, 2010, 70, 1441-1448.	0.4	294
12	Dose-volume modeling of salivary function in patients with head-and-neck cancer receiving radiotherapy. International Journal of Radiation Oncology Biology Physics, 2005, 62, 1055-1069.	0.4	242
13	Radiation Dose-Volume Effects in the Esophagus. International Journal of Radiation Oncology Biology Physics, 2010, 76, S86-S93.	0.4	231
14	Intensity-modulated radiation therapy for oropharyngeal carcinoma: impact of tumor volume. International Journal of Radiation Oncology Biology Physics, 2004, 59, 43-50.	0.4	227
15	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, 1386-1409.	1.6	203
16	Modeling radiation pneumonitis risk with clinical, dosimetric, and spatial parameters. International Journal of Radiation Oncology Biology Physics, 2006, 65, 112-124.	0.4	186
17	Multiple Resolution Residually Connected Feature Streams for Automatic Lung Tumor Segmentation From CT Images. IEEE Transactions on Medical Imaging, 2019, 38, 134-144.	5.4	176
18	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-S160.	0.4	171

#	ARTICLE	IF	CITATIONS
19	Sparing the region of the salivary gland containing stem cells preserves saliva production after radiotherapy for head and neck cancer. <i>Science Translational Medicine</i> , 2015, 7, 305ra147.	5.8	165
20	A Nomogram to Predict Radiation Pneumonitis, Derived From a Combined Analysis of RTOG 9311 and Institutional Data. <i>International Journal of Radiation Oncology Biology Physics</i> , 2007, 69, 985-992.	0.4	157
21	Robust radiotherapy planning. <i>Physics in Medicine and Biology</i> , 2018, 63, 22TR02.	1.6	156
22	Multivariable modeling of radiotherapy outcomes, including dose-volume and clinical factors. <i>International Journal of Radiation Oncology Biology Physics</i> , 2006, 64, 1275-1286.	0.4	152
23	Dosimetric correlates for acute esophagitis in patients treated with radiotherapy for lung carcinoma. <i>International Journal of Radiation Oncology Biology Physics</i> , 2004, 58, 1106-1113.	0.4	139
24	Accurate Accumulation of Dose for Improved Understanding of Radiation Effects in Normal Tissue. <i>International Journal of Radiation Oncology Biology Physics</i> , 2010, 76, S135-S139.	0.4	139
25	Radiation Dose-volume Effects and the Penile Bulb. <i>International Journal of Radiation Oncology Biology Physics</i> , 2010, 76, S130-S134.	0.4	131
26	Heart irradiation as a risk factor for radiation pneumonitis. <i>Acta Oncologica</i> , 2011, 50, 51-60.	0.8	125
27	Multiple local minima in radiotherapy optimization problems with dose-volume constraints. <i>Medical Physics</i> , 1997, 24, 1157-1161.	1.6	124
28	Impact of Dose to the Bladder Trigone on Long-Term Urinary Function After High-Dose Intensity Modulated Radiation Therapy for Localized Prostate Cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2014, 88, 339-344.	0.4	122
29	An investigation of tomotherapy beam delivery. <i>Medical Physics</i> , 1997, 24, 425-436.	1.6	121
30	Survival Among Men With Clinically Localized Prostate Cancer Treated With Radical Prostatectomy or Radiation Therapy in the Prostate Specific Antigen Era. <i>Journal of Urology</i> , 2012, 187, 1259-1265.	0.2	119
31	Breast cancer subtype intertumor heterogeneity: MRI-based features predict results of a genomic assay. <i>Journal of Magnetic Resonance Imaging</i> , 2015, 42, 1398-1406.	1.9	119
32	Breast cancer molecular subtype classifier that incorporates MRI features. <i>Journal of Magnetic Resonance Imaging</i> , 2016, 44, 122-129.	1.9	114
33	Technical Note: Extension of CERR for computational radiomics: A comprehensive MATLAB platform for reproducible radiomics research. <i>Medical Physics</i> , 2018, 45, 3713-3720.	1.6	114
34	IMRT QA using machine learning: A multi-institutional validation. <i>Journal of Applied Clinical Medical Physics</i> , 2017, 18, 279-284.	0.8	111
35	Concurrent multimodality image segmentation by active contours for radiotherapy treatment	1.6	107
36	Radiomics analysis of pulmonary nodules in low-dose CT for early detection of lung cancer. <i>Medical Physics</i> , 2018, 45, 1537-1549.	1.6	104

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37	Tumor-Aware, Adversarial Domain Adaptation from CT to MRI for Lung Cancer Segmentation. Lecture Notes in Computer Science, 2018, 11071, 777-785.	1.0	104
38	Improving Normal Tissue Complication Probability Models: The Need to Adopt a "Data-Pooling" Culture. International Journal of Radiation Oncology Biology Physics, 2010, 76, S151-S154.	0.4	101
39	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, 813-823.	1.9	95
40	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.	1.2	93
41	The generalized equivalent uniform dose function as a basis for intensity-modulated treatment planning. Physics in Medicine and Biology, 2002, 47, 3579-3589.	1.6	92
42	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.	2.3	92
43	A fast inverse consistent deformable image registration method based on symmetric optical flow computation. Physics in Medicine and Biology, 2008, 53, 6143-6165.	1.6	91
44	4D-CT motion estimation using deformable image registration and 5D respiratory motion modeling. Medical Physics, 2008, 35, 4577-4590.	1.6	88
45	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, 935-944.	0.4	83
46	Technical Note: DIRART – A software suite for deformable image registration and adaptive radiotherapy research. Medical Physics, 2011, 38, 67-77.	1.6	82
47	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.	1.2	82
48	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.	1.6	79
49	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.	0.4	73
50	IMRT treatment planning based on prioritizing prescription goals. Physics in Medicine and Biology, 2007, 52, 1675-1692.	1.6	71
51	Predicting radiotherapy outcomes using statistical learning techniques. Physics in Medicine and Biology, 2009, 54, S9-S30.	1.6	70
52	Development, external validation and clinical usefulness of a practical prediction model for radiation-induced dysphagia in lung cancer patients. Radiotherapy and Oncology, 2010, 97, 455-461.	0.3	70
53	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-S150.	0.4	69
54	Parotid gland fat related Magnetic Resonance image biomarkers improve prediction of late radiation-induced xerostomia. Radiotherapy and Oncology, 2018, 128, 459-466.	0.3	69

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55	Patch-based generative adversarial neural network models for head and neck MR-only planning. <i>Medical Physics</i> , 2020, 47, 626-642.	1.6	67
56	A machine learning model that classifies breast cancer pathologic complete response on MRI post-neoadjuvant chemotherapy. <i>Breast Cancer Research</i> , 2020, 22, 57.	2.2	63
57	An Antitumor Immune Response Is Evoked by Partial-Volume Single-Dose Radiation in 2 Murine Models. <i>International Journal of Radiation Oncology Biology Physics</i> , 2019, 103, 697-708.	0.4	62
58	Geometric interpretation of the dose distribution comparison technique: Interpolation-free calculation. <i>Medical Physics</i> , 2008, 35, 879-887.	1.6	61
59	STROGAR – STrengthening the Reporting Of Genetic Association studies in Radiogenomics. <i>Radiotherapy and Oncology</i> , 2014, 110, 182-188.	0.3	59
60	Absence of multiple local minima effects in intensity modulated optimization with dose-volume constraints. <i>Physics in Medicine and Biology</i> , 2003, 48, 183-210.	1.6	57
61	Deblurring of breathing motion artifacts in thoracic PET images by deconvolution methods. <i>Medical Physics</i> , 2006, 33, 3587-3600.	1.6	57
62	Modeling the Risk of Radiation-Induced Acute Esophagitis for Combined Washington University and RTOG Trial 93-11 Lung Cancer Patients. <i>International Journal of Radiation Oncology Biology Physics</i> , 2012, 82, 1674-1679.	0.4	57
63	Lymphocyte-Sparing Radiotherapy: The Rationale for Protecting Lymphocyte-rich Organs When Combining Radiotherapy With Immunotherapy. <i>Seminars in Radiation Oncology</i> , 2020, 30, 187-193.	1.0	57
64	Methodological issues in radiation dose-volume outcome analyses: Summary of a joint AAPM/NIH workshop. <i>Medical Physics</i> , 2002, 29, 2109-2127.	1.6	56
65	Clinical implementation of deep learning contour autosegmentation for prostate radiotherapy. <i>Radiotherapy and Oncology</i> , 2021, 159, 1-7.	0.3	56
66	Treatment Planning Constraints to Avoid Xerostomia in Head-and-Neck Radiotherapy: An Independent Test of QUANTEC Criteria Using a Prospectively Collected Dataset. <i>International Journal of Radiation Oncology Biology Physics</i> , 2012, 82, 1108-1114.	0.4	55
67	Predicting hypoxia status using a combination of contrast-enhanced computed tomography and [18F]-Fluorodeoxyglucose positron emission tomography radiomics features. <i>Radiotherapy and Oncology</i> , 2018, 127, 36-42.	0.3	55
68	A Bayesian network approach for modeling local failure in lung cancer. <i>Physics in Medicine and Biology</i> , 2011, 56, 1635-1651.	1.6	54
69	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. <i>Acta Oncologica</i> , 2010, 49, 1040-1044.	0.8	52
70	The Prediction of Radiotherapy Toxicity Using Single Nucleotide Polymorphism-Based Models: A Step Toward Prevention. <i>Seminars in Radiation Oncology</i> , 2015, 25, 281-291.	1.0	52
71	Predictive modeling of outcomes following definitive chemoradiotherapy for oropharyngeal cancer based on FDG-PET image characteristics. <i>Physics in Medicine and Biology</i> , 2017, 62, 5327-5343.	1.6	51
72	Multi-institutional validation of a novel textural analysis tool for preoperative stratification of suspected thyroid tumors on diffusion-weighted MRI. <i>Magnetic Resonance in Medicine</i> , 2016, 75, 1708-1716.	1.9	50

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73	Intravoxel incoherent motion diffusion-weighted MRI during chemoradiation therapy to characterize and monitor treatment response in human papillomavirus head and neck squamous cell carcinoma. <i>Journal of Magnetic Resonance Imaging</i> , 2017, 45, 1013-1023.	1.9	50
74	Progress toward a microradiation therapy small animal conformal irradiator. <i>Medical Physics</i> , 2006, 33, 3834-3845.	1.6	49
75	Datamining approaches for modeling tumor control probability. <i>Acta Oncologica</i> , 2010, 49, 1363-1373.	0.8	48
76	Qualitative Evaluation of Fiducial Markers for Radiotherapy Imaging. <i>Technology in Cancer Research and Treatment</i> , 2015, 14, 298-304.	0.8	48
77	Clinical and dosimetric predictors of acute hematologic toxicity in rectal cancer patients undergoing chemoradiotherapy. <i>Radiotherapy and Oncology</i> , 2014, 113, 29-34.	0.3	47
78	Modeling the Cellular Response of Lung Cancer to Radiation Therapy for a Broad Range of Fractionation Schedules. <i>Clinical Cancer Research</i> , 2017, 23, 5469-5479.	3.2	47
79	Modeling the Impact of Cardiopulmonary Irradiation on Overall Survival in NRG Oncology Trial RTOG 0617. <i>Clinical Cancer Research</i> , 2020, 26, 4643-4650.	3.2	47
80	A Bioinformatics Approach for Biomarker Identification in Radiation-Induced Lung Inflammation from Limited Proteomics Data. <i>Journal of Proteome Research</i> , 2011, 10, 1406-1415.	1.8	46
81	Dosimetric Predictors of Radiation-Induced Vaginal Stenosis After Pelvic Radiation Therapy for Rectal and Anal Cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2015, 92, 548-554.	0.4	43
82	Combining multiple models to generate consensus: Application to radiation-induced pneumonitis prediction. <i>Medical Physics</i> , 2008, 35, 5098-5109.	1.6	42
83	Deformable registration of abdominal kilovoltage treatment planning CT and tomotherapy daily megavoltage CT for treatment adaptation. <i>Medical Physics</i> , 2009, 36, 329-338.	1.6	42
84	Comparing Primary Tumors and Metastatic Nodes in Head and Neck Cancer Using Intravoxel Incoherent Motion Imaging. <i>Journal of Computer Assisted Tomography</i> , 2013, 37, 346-352.	0.5	42
85	Quantitative apparent diffusion coefficient measurement obtained by 3.0Tesla MRI as a potential noninvasive marker of tumor aggressiveness in breast cancer. <i>European Journal of Radiology</i> , 2016, 85, 1651-1658.	1.2	42
86	A Systematic Post-QUANTEC Review of Tolerance Doses for Late Toxicity After Prostate Cancer Radiation Therapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2018, 102, 1514-1532.	0.4	42
87	Cross-modality (CT-MRI) prior augmented deep learning for robust lung tumor segmentation from small MR datasets. <i>Medical Physics</i> , 2019, 46, 4392-4404.	1.6	42
88	A Voxel-Based Approach to Explore Local Dose Differences Associated With Radiation-Induced Lung Damage. <i>International Journal of Radiation Oncology Biology Physics</i> , 2016, 96, 127-133.	0.4	40
89	Complication Probability Models for Radiation-Induced Heart Valvular Dysfunction: Do Heart-Lung Interactions Play a Role?. <i>PLoS ONE</i> , 2014, 9, e111753.	1.1	39
90	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. <i>European Urology</i> , 2013, 64, 931-938.	0.9	38

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91	Estimate of the impact of FDG-avidity on the dose required for head and neck radiotherapy local control. <i>Radiotherapy and Oncology</i> , 2014, 111, 340-347.	0.3	38
92	Cardio-pulmonary substructure segmentation of radiotherapy computed tomography images using convolutional neural networks for clinical outcomes analysis. <i>Physics and Imaging in Radiation Oncology</i> , 2020, 14, 61-66.	1.2	38
93	Direct Comparison of Respiration-Correlated Four-Dimensional Magnetic Resonance Imaging Reconstructed Using Concurrent Internal Navigator and External Bellows. <i>International Journal of Radiation Oncology Biology Physics</i> , 2017, 97, 596-605.	0.4	37
94	Radiation pneumonitis in lung cancer patients treated with chemoradiation plus durvalumab. <i>Cancer Medicine</i> , 2020, 9, 4622-4631.	1.3	37
95	Dose-volume factors correlating with trismus following chemoradiation for head and neck cancer. <i>Acta Oncologica</i> , 2016, 55, 99-104.	0.8	36
96	A treatment planning study comparing HDR and AGIMRT for cervical cancer. <i>Medical Physics</i> , 2004, 31, 734-743.	1.6	35
97	Computational methods using genome-wide association studies to predict radiotherapy complications and to identify correlative molecular processes. <i>Scientific Reports</i> , 2017, 7, 43381.	1.6	35
98	Preoperative MRI-radiomics features improve prediction of survival in glioblastoma patients over MGMT methylation status alone. <i>Oncotarget</i> , 2019, 10, 660-672.	0.8	35
99	Toward predicting the evolution of lung tumors during radiotherapy observed on a longitudinal MR imaging study via a deep learning algorithm. <i>Medical Physics</i> , 2019, 46, 4699-4707.	1.6	34
100	Feasibility of small animal cranial irradiation with the microRT system. <i>Medical Physics</i> , 2008, 35, 4735-4743.	1.6	33
101	Motion Correction of Multi-b-value Diffusion-weighted Imaging in the Liver. <i>Academic Radiology</i> , 2012, 19, 1573-1580.	1.3	33
102	Using Diffusion-Weighted MRI to Predict Aggressive Histological Features in Papillary Thyroid Carcinoma: A Novel Tool for Pre-Operative Risk Stratification in Thyroid Cancer. <i>Thyroid</i> , 2015, 25, 672-680.	2.4	33
103	A Combination of Radiation and the Hypoxia-Activated Prodrug Evofosfamide (TH-302) is Efficacious against a Human Orthotopic Pancreatic Tumor Model. <i>Translational Oncology</i> , 2017, 10, 760-765.	1.7	33
104	Automated intensity modulated treatment planning: The expedited constrained hierarchical optimization (ECHO) system. <i>Medical Physics</i> , 2019, 46, 2944-2954.	1.6	33
105	Uncertainties in model-based outcome predictions for treatment planning. <i>International Journal of Radiation Oncology Biology Physics</i> , 2001, 51, 1389-1399.	0.4	32
106	Relationships between dose to the gastro-intestinal tract and patient-reported symptom domains after radiotherapy for localized prostate cancer. <i>Acta Oncologica</i> , 2015, 54, 1326-1334.	0.8	32
107	Multiatlas approach with local registration goodness weighting for MRI-based electron density mapping of head and neck anatomy. <i>Medical Physics</i> , 2017, 44, 3706-3717.	1.6	32
108	Image-based Data Mining to Probe Dosimetric Correlates of Radiation-induced Trismus. <i>International Journal of Radiation Oncology Biology Physics</i> , 2018, 102, 1330-1338.	0.4	32

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109	Incorporating spatial dose metrics in machine learning-based normal tissue complication probability (NTCP) models of severe acute dysphagia resulting from head and neck radiotherapy. <i>Clinical and Translational Radiation Oncology</i> , 2018, 8, 27-39.	0.9	31
110	Predictive Treatment Management: Incorporating a Predictive Tumor Response Model Into Robust Prospective Treatment Planning for Non-Small Cell Lung Cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2014, 88, 446-452.	0.4	30
111	The distance discordance metric—a novel approach to quantifying spatial uncertainties in intra- and inter-patient deformable image registration. <i>Physics in Medicine and Biology</i> , 2014, 59, 733-746.	1.6	30
112	Predicting radiation-induced valvular heart damage. <i>Acta Oncologica</i> , 2015, 54, 1796-1804.	0.8	30
113	Novel Super-Resolution Approach to Time-Resolved Volumetric 4-Dimensional Magnetic Resonance Imaging With High Spatiotemporal Resolution for Multi-Breathing Cycle Motion Assessment. <i>International Journal of Radiation Oncology Biology Physics</i> , 2017, 98, 454-462.	0.4	30
114	Organoids Reveal That Inherent Radiosensitivity of Small and Large Intestinal Stem Cells Determines Organ Sensitivity. <i>Cancer Research</i> , 2020, 80, 1219-1227.	0.4	30
115	Using Auto-Segmentation to Reduce Contouring and Dose Inconsistency in Clinical Trials: The Simulated Impact on RTOG 0617. <i>International Journal of Radiation Oncology Biology Physics</i> , 2021, 109, 1619-1626.	0.4	30
116	Identifying radiation-induced survivorship syndromes affecting bowel health in a cohort of gynecological cancer survivors. <i>PLoS ONE</i> , 2017, 12, e0171461.	1.1	30
117	Accelerating Monte Carlo simulations of radiation therapy dose distributions using wavelet threshold de-noising. <i>Medical Physics</i> , 2002, 29, 2366-2373.	1.6	28
118	Operations research applied to radiotherapy, an NCI-NSF-sponsored workshop February 7-9, 2002. <i>International Journal of Radiation Oncology Biology Physics</i> , 2003, 57, 762-768.	0.4	28
119	Feasibility of In Situ, High-Resolution Correlation of Tracer Uptake with Histopathology by Quantitative Autoradiography of Biopsy Specimens Obtained Under <sup>18</sup> F-FDG PET/CT Guidance. <i>Journal of Nuclear Medicine</i> , 2015, 56, 538-544.	2.8	28
120	Dosimetric evaluation of an atlas-based synthetic CT generation approach for MR-only radiotherapy of pelvis anatomy. <i>Journal of Applied Clinical Medical Physics</i> , 2019, 20, 101-109.	0.8	28
121	Comments. <i>International Journal of Radiation Oncology Biology Physics</i> , 2000, 47, 1458-1459.	0.4	27
122	Predictors of acute toxicities during definitive chemoradiation using intensity-modulated radiotherapy for anal squamous cell carcinoma. <i>Acta Oncologica</i> , 2016, 55, 208-216.	0.8	27
123	Toward personalized dose-prescription in locally advanced non-small cell lung cancer: Validation of published normal tissue complication probability models. <i>Radiotherapy and Oncology</i> , 2019, 138, 45-51.	0.3	27
124	PSIGAN: Joint Probabilistic Segmentation and Image Distribution Matching for Unpaired Cross-Modality Adaptation-Based MRI Segmentation. <i>IEEE Transactions on Medical Imaging</i> , 2020, 39, 4071-4084.	5.4	27
125	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. <i>Radiation Oncology</i> , 2006, 1, 33.	1.2	26
126	A magnetic resonance imaging-based approach to quantify radiation-induced normal tissue injuries applied to trismus in head and neck cancer. <i>Physics and Imaging in Radiation Oncology</i> , 2017, 1, 34-40.	1.2	26



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127	Appearance Constrained Semi-Automatic Segmentation from DCE-MRI is Reproducible and Feasible for Breast Cancer Radiomics: A Feasibility Study. <i>Scientific Reports</i> , 2018, 8, 4838.	1.6	26
128	Repeatability Investigation of Reduced Field-of-View Diffusion-Weighted Magnetic Resonance Imaging on Thyroid Glands. <i>Journal of Computer Assisted Tomography</i> , 2015, 39, 1.	0.5	26
129	Robust and interpretable PAM50 reclassification exhibits survival advantage for myoepithelial and immune phenotypes. <i>Npj Breast Cancer</i> , 2019, 5, 30.	2.3	25
130	Denoising of electron beam Monte Carlo dose distributions using digital filtering techniques. <i>Physics in Medicine and Biology</i> , 2000, 45, 1765-1779.	1.6	24
131	Optimization of the temporal pattern of radiation: An IMRT based study. <i>International Journal of Radiation Oncology Biology Physics</i> , 2006, 66, 898-905.	0.4	24
132	Dose/volume response relations for rectal morbidity using planned and simulated motion-inclusive dose distributions. <i>Radiotherapy and Oncology</i> , 2013, 109, 388-393.	0.3	24
133	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. <i>Journal of Cranio-Maxillo-Facial Surgery</i> , 2017, 45, 595-600.	0.7	24
134	Integrated Multi-Tumor Radio-Genomic Marker of Outcomes in Patients with High Serous Ovarian Carcinoma. <i>Cancers</i> , 2020, 12, 3403.	1.7	24
135	A Research Agenda for Radiation Oncology: Results of the Radiation Oncology Institute's Comprehensive Research Needs Assessment. <i>International Journal of Radiation Oncology Biology Physics</i> , 2012, 84, 318-322.	0.4	23
136	Urinary bladder dose response relationships for patient-reported genitourinary morbidity domains following prostate cancer radiotherapy. <i>Radiotherapy and Oncology</i> , 2016, 119, 117-122.	0.3	23
137	Associations between volume changes and spatial dose metrics for the urinary bladder during local versus pelvic irradiation for prostate cancer. <i>Acta Oncologica</i> , 2017, 56, 884-890.	0.8	23
138	Spatial rectal dose/volume metrics predict patient-reported gastro-intestinal symptoms after radiotherapy for prostate cancer. <i>Acta Oncologica</i> , 2017, 56, 1507-1513.	0.8	23
139	Partial tumor boosts: even more attractive than theory predicts?. <i>International Journal of Radiation Oncology Biology Physics</i> , 2001, 51, 279-280.	0.4	22
140	Radiomic analysis identifies tumor subtypes associated with distinct molecular and microenvironmental factors in head and neck squamous cell carcinoma. <i>Oral Oncology</i> , 2020, 110, 104877.	0.8	22
141	Machine learning on genome-wide association studies to predict the risk of radiation-associated contralateral breast cancer in the WECARE Study. <i>PLoS ONE</i> , 2020, 15, e0226157.	1.1	22
142	Tolerance doses for late adverse events after hypofractionated radiotherapy for prostate cancer on trial NRG Oncology/RTOG 0415. <i>Radiotherapy and Oncology</i> , 2019, 135, 19-24.	0.3	21
143	Automating proton treatment planning with beam angle selection using Bayesian optimization. <i>Medical Physics</i> , 2020, 47, 3286-3296.	1.6	21
144	Automatic segmentation of brain metastases using T1 magnetic resonance and computed tomography images. <i>Physics in Medicine and Biology</i> , 2021, 66, 175014.	1.6	21

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145	Visual Analysis of the Daily QA Results of Photon and Electron Beams of a Trilogy Linac over a Five-Year Period. <i>International Journal of Medical Physics, Clinical Engineering and Radiation Oncology</i> , 2015, 04, 290-299.	0.3	19
146	Pediatric Sarcoma Data Forms a Unique Cluster Measured via the Earth Mover's Distance. <i>Scientific Reports</i> , 2017, 7, 7035.	1.6	19
147	Spatial signature of dose patterns associated with acute radiation-induced lung damage in lung cancer patients treated with stereotactic body radiation therapy. <i>Physics in Medicine and Biology</i> , 2019, 64, 155006.	1.6	19
148	Non-invasive imaging prediction of tumor hypoxia: A novel developed and externally validated CT and FDG-PET-based radiomic signatures. <i>Radiotherapy and Oncology</i> , 2020, 153, 97-105.	0.3	19
149	Statistical simulations to estimate motion-inclusive dose-volume histograms for prediction of rectal morbidity following radiotherapy. <i>Acta Oncologica</i> , 2013, 52, 666-675.	0.8	18
150	Treatment planning evaluation and optimization should be biologically and not dose/volume based. <i>Medical Physics</i> , 2015, 42, 2753-2756.	1.6	18
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