Joseph O Deasy

List of Publications by Year
in descending order

272	17,192	25014 57	16636 123
papers	citations	h-index	g-index

293	293	293	13821
all docs	docs citations	times ranked	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 Doseâ€"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 Doseâ€"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 Doseâ€"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	Doseâ€"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 Doseâ€"Volume Dependencies of Treatment Outcome. International Journal of Radiation Oncology Biology Physics, 2010, 76, S155-S160.	0.4	171

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19	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.	5.8	165
20	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, 985-992.	0.4	157
21	Robust radiotherapy planning. Physics in Medicine and Biology, 2018, 63, 22TR02.	1.6	156
22	Multivariable modeling of radiotherapy outcomes, including doseâ€“volume and clinical factors. International Journal of Radiation Oncology Biology Physics, 2006, 64, 1275-1286.	0.4	152
23	Dosimetric correlates for acute esophagitis in patients treated with radiotherapy for lung carcinoma. International Journal of Radiation Oncology Biology Physics, 2004, 58, 1106-1113.	0.4	139
24	Accurate Accumulation of Dose for Improved Understanding of Radiation Effects in Normal Tissue. International Journal of Radiation Oncology Biology Physics, 2010, 76, S135-S139.	0.4	139
25	Radiation Doseâ€“Volume Effects and the Penile Bulb. International Journal of Radiation Oncology Biology Physics, 2010, 76, S130-S134.	0.4	131
26	Heart irradiation as a risk factor for radiation pneumonitis. Acta OncolÃ³gica, 2011, 50, 51-60.	0.8	125
27	Multiple local minima in radiotherapy optimization problems with dose-volume constraints. Medical Physics, 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. International Journal of Radiation Oncology Biology Physics, 2014, 88, 339-344.	0.4	122
29	An investigation of tomotherapy beam delivery. Medical Physics, 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. Journal of Urology, 2012, 187, 1259-1265.	0.2	119
31	Breast cancer subtype intertumor heterogeneity: MRIâ€based features predict results of a genomic assay. Journal of Magnetic Resonance Imaging, 2015, 42, 1398-1406.	1.9	119
32	Breast cancer molecular subtype classifier that incorporates MRI features. Journal of Magnetic Resonance Imaging, 2016, 44, 122-129.	1.9	114
33	Technical Note: Extension of CERR for computational radiomics: A comprehensive MATLAB platform for reproducible radiomics research. Medical Physics, 2018, 45, 3713-3720.	1.6	114
34	<scp>IMRT QA</scp> using machine learning: A multiâ€institutional validation. Journal of Applied Clinical Medical Physics, 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 lowâ€dose <scp>CT</scp> for early detection of lung cancer. Medical Physics, 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 â€œData-Poolingâ€• Culture. International Journal of Radiation Oncology Biology Physics, 2010, 76, S151-S154.	0.4	101
39	Intravoxel incoherent motion diffusionâ€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	4Dâ€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: <scp>DIRART</scp> â€“ 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 Doseâ€“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	Patchâ€based generative adversarial neural network models for head and neck MRâ€only planning. Medical Physics, 2020, 47, 626-642.	1.6	67
56	A machine learning model that classifies breast cancer pathologic complete response on MRI post-neoadjuvant chemotherapy. Breast Cancer Research, 2020, 22, 57.	2.2	63
57	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.	0.4	62
58	Geometric interpretation of the dose distribution comparison technique: Interpolationâ€free calculation. Medical Physics, 2008, 35, 879-887.	1.6	61
59	STROGAR â€“ STrengthening the Reporting Of Genetic Association studies in Radiogenomics. Radiotherapy and Oncology, 2014, 110, 182-188.	0.3	59
60	Absence of multiple local minima effects in intensity modulated optimization with doseÂvolume constraints. Physics in Medicine and Biology, 2003, 48, 183-210.	1.6	57
61	Deblurring of breathing motion artifacts in thoracic PET images by deconvolution methods. Medical Physics, 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. International Journal of Radiation Oncology Biology Physics, 2012, 82, 1674-1679.	0.4	57
63	Lymphocyte-Sparing Radiotherapy: The Rationale for Protecting Lymphocyte-rich Organs When Combining Radiotherapy With Immunotherapy. Seminars in Radiation Oncology, 2020, 30, 187-193.	1.0	57
64	Methodological issues in radiation dose-volume outcome analyses: Summary of a joint AAPM/NIH workshop. Medical Physics, 2002, 29, 2109-2127.	1.6	56
65	Clinical implementation of deep learning contour autosegmentation for prostate radiotherapy. Radiotherapy and Oncology, 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. International Journal of Radiation Oncology Biology Physics, 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. Radiotherapy and Oncology, 2018, 127, 36-42.	0.3	55
68	A Bayesian network approach for modeling local failure in lung cancer. Physics in Medicine and Biology, 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. Acta OncolÃ³gica, 2010, 49, 1040-1044.	0.8	52
70	The Prediction of Radiotherapy Toxicity Using Single Nucleotide Polymorphismâ€'Based Models: A Step Toward Prevention. Seminars in Radiation Oncology, 2015, 25, 281-291.	1.0	52
71	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.	1.6	51
72	Multiâ€institutional validation of a novel textural analysis tool for preoperative stratification of suspected thyroid tumors on diffusionâ€weighted MRI. Magnetic Resonance in Medicine, 2016, 75, 1708-1716.	1.9	50

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73	Intravoxel incoherent motion diffusionâ€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.	1.9	50
74	Progress toward a microradiation therapy small animal conformal irradiator. Medical Physics, 2006, 33, 3834-3845.	1.6	49
75	Datamining approaches for modeling tumor control probability. Acta OncolÃ³gica, 2010, 49, 1363-1373.	0.8	48
76	Qualitative Evaluation of Fiducial Markers for Radiotherapy Imaging. Technology in Cancer Research and Treatment, 2015, 14, 298-304.	0.8	48
77	Clinical and dosimetric predictors of acute hematologic toxicity in rectal cancer patients undergoing chemoradiotherapy. Radiotherapy and Oncology, 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. Clinical Cancer Research, 2017, 23, 5469-5479.	3.2	47
79	Modeling the Impact of Cardiopulmonary Irradiation on Overall Survival in NRG Oncology Trial RTOG 0617. Clinical Cancer Research, 2020, 26, 4643-4650.	3.2	47
80	A Bioinformatics Approach for Biomarker Identification in Radiation-Induced Lung Inflammation from Limited Proteomics Data. Journal of Proteome Research, 2011, 10, 1406-1415.	1.8	46
81	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, 548-554.	0.4	43
82	Combining multiple models to generate consensus: Application to radiationâ€induced pneumonitis prediction. Medical Physics, 2008, 35, 5098-5109.	1.6	42
83	Deformable registration of abdominal kilovoltage treatment planning CT and tomotherapy daily megavoltage CT for treatment adaptation. Medical Physics, 2009, 36, 329-338.	1.6	42
84	Comparing Primary Tumors and Metastatic Nodes in Head and Neck Cancer Using Intravoxel Incoherent Motion Imaging. Journal of Computer Assisted Tomography, 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. European Journal of Radiology, 2016, 85, 1651-1658.	1.2	42
86	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.	0.4	42
87	Crossâ€modality (CTâ€MRI) prior augmented deep learning for robust lung tumor segmentation from small MR datasets. Medical Physics, 2019, 46, 4392-4404.	1.6	42
88	A Voxel-Based Approach to Explore Local Dose Differences Associated With Radiation-Induced Lung Damage. International Journal of Radiation Oncology Biology Physics, 2016, 96, 127-133.	0.4	40
89	Complication Probability Models for Radiation-Induced Heart Valvular Dysfunction: Do Heart-Lung Interactions Play a Role?. PLoS ONE, 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. European Urology, 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. Radiotherapy and Oncology, 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. Physics and Imaging in Radiation Oncology, 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. International Journal of Radiation Oncology Biology Physics, 2017, 97, 596-605.	0.4	37
94	Radiation pneumonitis in lung cancer patients treated with chemoradiation plus durvalumab. Cancer Medicine, 2020, 9, 4622-4631.	1.3	37
95	Dose-volume factors correlating with trismus following chemoradiation for head and neck cancer. Acta OncolÃ³gica, 2016, 55, 99-104.	0.8	36
96	A treatment planning study comparing HDR and AGIMRT for cervical cancer. Medical Physics, 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. Scientific Reports, 2017, 7, 43381.	1.6	35
98	Preoperative MRI-radiomics features improve prediction of survival in glioblastoma patients over MGMT methylation status alone. Oncotarget, 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. Medical Physics, 2019, 46, 4699-4707.	1.6	34
100	Feasibility of small animal cranial irradiation with the microRT system. Medical Physics, 2008, 35, 4735-4743.	1.6	33
101	Motion Correction of Multi-b-value Diffusion-weighted Imaging in the Liver. Academic Radiology, 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. Thyroid, 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. Translational Oncology, 2017, 10, 760-765.	1.7	33
104	Automated intensity modulated treatment planning: The expedited constrained hierarchical optimization (ECHO) system. Medical Physics, 2019, 46, 2944-2954.	1.6	33
105	Uncertainties in model-based outcome predictions for treatment planning. International Journal of Radiation Oncology Biology Physics, 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. Acta OncolÃ³gica, 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. Medical Physics, 2017, 44, 3706-3717.	1.6	32
108	Image-based Data Mining to Probe Dosimetric Correlates of Radiation-induced Trismus. International Journal of Radiation Oncology Biology Physics, 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. Clinical and Translational Radiation Oncology, 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. International Journal of Radiation Oncology Biology Physics, 2014, 88, 446-452.	0.4	30
111	The distance discordance metricâ€"a novel approach to quantifying spatial uncertainties in intra- and inter-patient deformable image registration. Physics in Medicine and Biology, 2014, 59, 733-746.	1.6	30
112	Predicting radiation-induced valvular heart damage. Acta OncolÃ³gica, 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. International Journal of Radiation Oncology Biology Physics, 2017, 98, 454-462.	0.4	30
114	Organoids Reveal That Inherent Radiosensitivity of Small and Large Intestinal Stem Cells Determines Organ Sensitivity. Cancer Research, 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. International Journal of Radiation Oncology Biology Physics, 2021, 109, 1619-1626.	0.4	30
116	Identifying radiation-induced survivorship syndromes affecting bowel health in a cohort of gynecological cancer survivors. PLoS ONE, 2017, 12, e0171461.	1.1	30
117	Accelerating Monte Carlo simulations of radiation therapy dose distributions using wavelet threshold de-noising. Medical Physics, 2002, 29, 2366-2373.	1.6	28
118	Operations research applied to radiotherapy, an NCI-NSFâ€"sponsored workshop February 7â€"9, 2002. International Journal of Radiation Oncology Biology Physics, 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 ¹⁸F-FDG PET/CT Guidance. Journal of Nuclear Medicine, 2015, 56, 538-544.	2.8	28
120	Dosimetric evaluation of an atlasâ€based synthetic <scp>CT</scp> generation approach for <scp>MR</scp>â€only radiotherapy of pelvis anatomy. Journal of Applied Clinical Medical Physics, 2019, 20, 101-109.	0.8	28
121	Comments. International Journal of Radiation Oncology Biology Physics, 2000, 47, 1458-1459.	0.4	27
122	Predictors of acute toxicities during definitive chemoradiation using intensity-modulated radiotherapy for anal squamous cell carcinoma. Acta OncolÃ³gica, 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. Radiotherapy and Oncology, 2019, 138, 45-51.	0.3	27
124	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.	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. Radiation Oncology, 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. Physics and Imaging in Radiation Oncology, 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. Scientific Reports, 2018, 8, 4838.	1.6	26
128	Repeatability Investigation of Reduced Field-of-View Diffusion-Weighted Magnetic Resonance Imaging on Thyroid Glands. Journal of Computer Assisted Tomography, 2015, 39, 1.	0.5	26
129	Robust and interpretable PAM50 reclassification exhibits survival advantage for myoepithelial and immune phenotypes. Npj Breast Cancer, 2019, 5, 30.	2.3	25
130	Denoising of electron beam Monte Carlo dose distributions using digital filtering techniques. Physics in Medicine and Biology, 2000, 45, 1765-1779.	1.6	24
131	Optimization of the temporal pattern of radiation: An IMRT based study. International Journal of Radiation Oncology Biology Physics, 2006, 66, 898-905.	0.4	24
132	Dose/volumeâ€“response relations for rectal morbidity using planned and simulated motion-inclusive dose distributions. Radiotherapy and Oncology, 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. Journal of Cranio-Maxillo-Facial Surgery, 2017, 45, 595-600.	0.7	24
134	Integrated Multi-Tumor Radio-Genomic Marker of Outcomes in Patients with High Serous Ovarian Carcinoma. Cancers, 2020, 12, 3403.	1.7	24
135	A Research Agenda for Radiation Oncology: Results of the Radiation Oncology Instituteâ€™s Comprehensive Research Needs Assessment. International Journal of Radiation Oncology Biology Physics, 2012, 84, 318-322.	0.4	23
136	Urinary bladder doseâ€“response relationships for patient-reported genitourinary morbidity domains following prostate cancer radiotherapy. Radiotherapy and Oncology, 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. Acta OncolÃ³gica, 2017, 56, 884-890.	0.8	23
138	Spatial rectal dose/volume metrics predict patient-reported gastro-intestinal symptoms after radiotherapy for prostate cancer. Acta OncolÃ³gica, 2017, 56, 1507-1513.	0.8	23
139	Partial tumor boosts: even more attractive than theory predicts?. International Journal of Radiation Oncology Biology Physics, 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. Oral Oncology, 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. PLoS ONE, 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. Radiotherapy and Oncology, 2019, 135, 19-24.	0.3	21
143	Automating proton treatment planning with beam angle selection using Bayesian optimization. Medical Physics, 2020, 47, 3286-3296.	1.6	21
144	Automatic segmentation of brain metastases using T1 magnetic resonance and computed tomography images. Physics in Medicine and Biology, 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. International Journal of Medical Physics, Clinical Engineering and Radiation Oncology, 2015, 04, 290-299.	0.3	19
146	Pediatric Sarcoma Data Forms a Unique Cluster Measured via the Earth Moverâ€™s Distance. Scientific Reports, 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. Physics in Medicine and Biology, 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. Radiotherapy and Oncology, 2020, 153, 97-105.	0.3	19
149	Statistical simulations to estimate motion-inclusive dose-volume histograms for prediction of rectal morbidity following radiotherapy. Acta OncolÃ³gica, 2013, 52, 666-675.	0.8	18
150	Treatment planning evaluation and optimization should be biologically and not dose/volume based. Medical Physics, 2015, 42, 2753-2756.	1.6	18
151	Independent test of a model to predict severe acute esophagitis. Advances in Radiation Oncology, 2017, 2, 37-43.	0.6	18
152	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.	1.6	18
153	Retrospective Monte Carlo dose calculations with limited beam weight information. Medical Physics, 2006, 34, 334-346.	1.6	17
154	Bioinformatics Methods for Learning Radiation-Induced Lung Inflammation from Heterogeneous Retrospective and Prospective Data. Journal of Biomedicine and Biotechnology, 2009, 2009, 1-14.	3.0	17
155	A Bioinformatics Filtering Strategy for Identifying Radiation Response Biomarker Candidates. PLoS ONE, 2012, 7, e38870.	1.1	17
156	Characterizing Cancer Drug Response and Biological Correlates: A Geometric Network Approach. Scientific Reports, 2018, 8, 6402.	1.6	17
157	Daily Fractionation of External Beam Accelerated Partial Breast Irradiation to 40ÂGy Is Well Tolerated and Locally Effective. International Journal of Radiation Oncology Biology Physics, 2019, 104, 859-866.	0.4	17
158	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.	0.4	16
159	Dose to the cardio-pulmonary system and treatment-induced electrocardiogram abnormalities in locally advanced non-small cell lung cancer. Clinical and Translational Radiation Oncology, 2019, 19, 96-102.	0.9	16
160	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.	0.3	16
161	Image-based modeling of normal tissue complication probability for radiation therapy. Cancer Treatment and Research, 2008, 139, 215-56.	0.2	16
162	Beamlet dose distribution compression and reconstruction using wavelets for intensity modulated treatment planning. Medical Physics, 2004, 31, 368-375.	1.6	15

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163	Technical Note: Deformable image registration on partially matched images for radiotherapy applications. Medical Physics, 2010, 37, 141-145.	1.6	15
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