

Joseph O Deasy

List of Publications by Year in Descending Order

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Version: 2024-04-26

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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.

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	Automated and Clinically Optimal Treatment Planning for Cancer Radiotherapy. <i>INFORMS Journal on Applied Analytics</i> , 2022 , 52, 69-89		0
262	vWCluster: Vector-valued optimal transport for network based clustering using multi-omics data in breast cancer.. <i>PLoS ONE</i> , 2022 , 17, e0265150	3.7	0
261	Optimizing Lung Cancer Radiotherapy Treatments Using Personalized Dose-Response Curves. <i>Medical Radiology</i> , 2022 ,	0.2	
260	Prospectively-validated deep learning model for segmenting swallowing and chewing structures in CT. <i>Physics in Medicine and Biology</i> , 2021 ,	3.8	1
259	Geometric network analysis provides prognostic information in patients with high grade serous carcinoma of the ovary treated with immune checkpoint inhibitors. <i>Npj Genomic Medicine</i> , 2021 , 6, 99	6.2	1
258	Unpaired cross-modality educed distillation (CMEDL) for medical image segmentation. <i>IEEE Transactions on Medical Imaging</i> , 2021 , PP,	11.7	2
257	Reproducible and Interpretable Spiculation Quantification for Lung Cancer Screening. <i>Computer Methods and Programs in Biomedicine</i> , 2021 , 200, 105839	6.9	3
256	Solving the volumetric modulated arc therapy (VMAT) problem using a sequential convex programming method. <i>Physics in Medicine and Biology</i> , 2021 , 66,	3.8	1
255	Reproducibility of radiomic features using network analysis and its application in Wasserstein -means clustering. <i>Journal of Medical Imaging</i> , 2021 , 8, 031904	2.6	0
254	Deep cross-modality (MR-CT) educed distillation learning for cone beam CT lung tumor segmentation. <i>Medical Physics</i> , 2021 , 48, 3702-3713	4.4	1
253	Clinical implementation of deep learning contour autosegmentation for prostate radiotherapy. <i>Radiotherapy and Oncology</i> , 2021 , 159, 1-7	5.3	12
252	A platform for continuous learning in oncology.. <i>Nature Cancer</i> , 2021 , 2, 675-676	15.4	0
251	In Reply to Sabour. <i>International Journal of Radiation Oncology Biology Physics</i> , 2021 , 110, 915-916	4	
250	PathCNN: interpretable convolutional neural networks for survival prediction and pathway analysis applied to glioblastoma. <i>Bioinformatics</i> , 2021 , 37, i443-i450	7.2	3
249	Radiation Pneumonitis in Thoracic Cancer Patients: Multi-Center Voxel-Based Analysis. <i>Cancers</i> , 2021 , 13,	6.6	3
248	Stochastic Norton-Simon-Massagué Tumor Growth Modeling: Controlled and Mixed-Effect Uncontrolled Analysis. <i>IEEE Transactions on Control Systems Technology</i> , 2021 , 29, 704-717	4.8	
247	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	4	10

246	Periodicity Scoring of Time Series Encodes Dynamical Behavior of the Tumor Suppressor p53. <i>IFAC-PapersOnLine</i> , 2021 , 54, 488-495	0.7	0
245	Deep learning auto-segmentation and automated treatment planning for trismus risk reduction in head and neck cancer radiotherapy. <i>Physics and Imaging in Radiation Oncology</i> , 2021 , 19, 96-101	3.1	0
244	Early Prediction of Acute Esophagitis for Adaptive Radiation Therapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2021 , 110, 883-892	4	4
243	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	5.3	6
242	Modeling the Impact of Cardiopulmonary Irradiation on Overall Survival in NRG Oncology Trial RTOG 0617. <i>Clinical Cancer Research</i> , 2020 , 26, 4643-4650	12.9	20
241	Radiation pneumonitis in lung cancer patients treated with chemoradiation plus durvalumab. <i>Cancer Medicine</i> , 2020 , 9, 4622-4631	4.8	17
240	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	5.5	25
239	Library of deep-learning image segmentation and outcomes model-implementations. <i>Physica Medica</i> , 2020 , 73, 190-196	2.7	9
238	A machine learning model that classifies breast cancer pathologic complete response on MRI post-neoadjuvant chemotherapy. <i>Breast Cancer Research</i> , 2020 , 22, 57	8.3	25
237	A novel kernel Wasserstein distance on Gaussian measures: An application of identifying dental artifacts in head and neck computed tomography. <i>Computers in Biology and Medicine</i> , 2020 , 120, 103731	7	6
236	A super-resolution framework for the reconstruction of T2-weighted (T2w) time-resolved (TR) 4DMRI using T1w TR-4DMRI as the guidance. <i>Medical Physics</i> , 2020 , 47, 3091-3102	4.4	3
235	Automated proton treatment planning with robust optimization using constrained hierarchical optimization. <i>Medical Physics</i> , 2020 , 47, 2779-2790	4.4	3
234	Functional network analysis reveals an immune tolerance mechanism in cancer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 16339-16345	11.5	5
233	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	3.1	13
232	Registering Study Analysis Plans (SAPs) Before Dissecting Your Data-Updating and Standardizing Outcome Modeling. <i>Frontiers in Oncology</i> , 2020 , 10, 978	5.3	2
231	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, 104874	4.4	10
230	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	3.7	10
229	Automating proton treatment planning with beam angle selection using Bayesian optimization. <i>Medical Physics</i> , 2020 , 47, 3286-3296	4.4	6

228	Technical Note: A custom-designed flexible MR coil array for spine radiotherapy treatment planning. <i>Medical Physics</i> , 2020 , 47, 3143-3152	4.4	2
227	aWCluster: A Novel Integrative Network-based Clustering of Multiomics for Subtype Analysis of Cancer Data. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , 2020 , PP,	3	3
226	Computational Modeling of Interstitial Fluid Pressure and Velocity in Head and Neck Cancer Based on Dynamic Contrast-Enhanced Magnetic Resonance Imaging: Feasibility Analysis. <i>Tomography</i> , 2020 , 6, 129-138	3.1	5
225	The relative biological effectiveness of carbon ion radiation therapy for early stage lung cancer. <i>Radiotherapy and Oncology</i> , 2020 , 153, 265-271	5.3	4
224	Self-derived organ attention for unpaired CT-MRI deep domain adaptation based MRI segmentation. <i>Physics in Medicine and Biology</i> , 2020 , 65, 205001	3.8	2
223	Patch-based generative adversarial neural network models for head and neck MR-only planning. <i>Medical Physics</i> , 2020 , 47, 626-642	4.4	31
222	Organoids Reveal That Inherent Radiosensitivity of Small and Large Intestinal Stem Cells Determines Organ Sensitivity. <i>Cancer Research</i> , 2020 , 80, 1219-1227	10.1	18
221	LDeform: Longitudinal deformation analysis for adaptive radiotherapy of lung cancer. <i>Medical Physics</i> , 2020 , 47, 132-141	4.4	3
220	Are unsatisfactory outcomes after concurrent chemoradiotherapy for locally advanced non-small cell lung cancer due to treatment-related immunosuppression?. <i>Radiotherapy and Oncology</i> , 2020 , 143, 51-57	5.3	12
219	Clinical Experience of Automated SBRT Paraspinal and Other Metastatic Tumor Planning With Constrained Hierarchical Optimization. <i>Advances in Radiation Oncology</i> , 2020 , 5, 1042-1050	3.3	3
218	Integrating soft and hard dose-volume constraints into hierarchical constrained IMRT optimization. <i>Medical Physics</i> , 2020 , 47, 414-421	4.4	6
217	Prediction of Breast Cancer Treatment-Induced Fatigue by Machine Learning Using Genome-Wide Association Data. <i>JNCI Cancer Spectrum</i> , 2020 , 4, pkaa039	4.6	1
216	Integrated Multi-Tumor Radio-Genomic Marker of Outcomes in Patients with High Serous Ovarian Carcinoma. <i>Cancers</i> , 2020 , 12,	6.6	7
215	Enhanced super-resolution reconstruction of T1w time-resolved 4DMRI in low-contrast tissue using 2-step hybrid deformable image registration. <i>Journal of Applied Clinical Medical Physics</i> , 2020 , 21, 25-39	2.3	2
214	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	11.7	11
213	Predictive Modeling of Thoracic Radiotherapy Toxicity and the Potential Role of Serum Alpha-2-Macroglobulin. <i>Frontiers in Oncology</i> , 2020 , 10, 1395	5.3	3
212	A Vectorial Approach to Unbalanced Optimal Mass Transport. <i>IEEE Access</i> , 2020 , 8, 209224-209231	3.5	
211	Identification of biological correlates associated with respiratory failure in COVID-19. <i>BMC Medical Genomics</i> , 2020 , 13, 186	3.7	6

210	Robust and interpretable PAM50 reclassification exhibits survival advantage for myoepithelial and immune phenotypes. <i>Npj Breast Cancer</i> , 2019 , 5, 30	7.8	17
209	Molecular phenotyping using networks, diffusion, and topology: soft tissue sarcoma. <i>Scientific Reports</i> , 2019 , 9, 13982	4.9	3
208	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	5.3	19
207	Automated intensity modulated treatment planning: The expedited constrained hierarchical optimization (ECHO) system. <i>Medical Physics</i> , 2019 , 46, 2944-2954	4.4	17
206	Enhancement of Long-Term External-Internal Correlation by Phase-Shift Detection and Correction Based on Concurrent External Bellows and Internal Navigator Signals. <i>Advances in Radiation Oncology</i> , 2019 , 4, 377-389	3.3	2
205	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	5.3	15
204	Preoperative MRI-radiomics features improve prediction of survival in glioblastoma patients over MGMT methylation status alone. <i>Oncotarget</i> , 2019 , 10, 660-672	3.3	25
203	Daily Fractionation of External Beam Accelerated Partial Breast Irradiation to 40 Gy Is Well Tolerated and Locally Effective. <i>International Journal of Radiation Oncology Biology Physics</i> , 2019 , 104, 859-866	4	7
202	Multiple Resolution Residually Connected Feature Streams for Automatic Lung Tumor Segmentation From CT Images. <i>IEEE Transactions on Medical Imaging</i> , 2019 , 38, 134-144	11.7	81
201	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	4.4	18
200	Toronto Workshop on Late Recurrence in Estrogen Receptor-Positive Breast Cancer: Part 2: Approaches to Predict and Identify Late Recurrence, Research Directions. <i>JNCI Cancer Spectrum</i> , 2019 , 3, pkz049	4.6	4
199	A theoretical investigation of adequate range uncertainty margins in proton treatment planning to preserve tumor control probability. <i>Acta Oncologica</i> , 2019 , 58, 1446-1450	3.2	3
198	Optimal mass transport kinetic modeling for head and neck DCE-MRI: Initial analysis. <i>Magnetic Resonance in Medicine</i> , 2019 , 82, 2314-2325	4.4	2
197	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	3.8	13
196	Impact of image preprocessing on the scanner dependence of multi-parametric MRI radiomic features and covariate shift in multi-institutional glioblastoma datasets. <i>Physics in Medicine and Biology</i> , 2019 , 64, 165011	3.8	49
195	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	4.4	21
194	Dose to the cardio-pulmonary system and treatment-induced electrocardiogram abnormalities in locally advanced non-small cell lung cancer. <i>Clinical and Translational Radiation Oncology</i> , 2019 , 19, 96-102	4.6	7
193	Dynamic multiatlas selection-based consensus segmentation of head and neck structures from CT images. <i>Medical Physics</i> , 2019 , 46, 5612-5622	4.4	8

192	Toronto Workshop on Late Recurrence in Estrogen Receptor-Positive Breast Cancer: Part 1: Late Recurrence: Current Understanding, Clinical Considerations. <i>JNCI Cancer Spectrum</i> , 2019 , 3, pkz050	4.6	6
191	Dual-input tracer kinetic modeling of dynamic contrast-enhanced MRI in thoracic malignancies. <i>Journal of Applied Clinical Medical Physics</i> , 2019 , 20, 169-188	2.3	2
190	Cardio-Pulmonary Substructure Segmentation of CT Images Using Convolutional Neural Networks. <i>Lecture Notes in Computer Science</i> , 2019 , 162-169	0.9	3
189	Deep learning-based auto-segmentation of targets and organs-at-risk for magnetic resonance imaging only planning of prostate radiotherapy. <i>Physics and Imaging in Radiation Oncology</i> , 2019 , 12, 80-86	3.1	31
188	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	2.3	17
187	Diffusion-weighted MRI of the lung at 3T evaluated using echo-planar-based and single-shot turbo spin-echo-based acquisition techniques for radiotherapy applications. <i>Journal of Applied Clinical Medical Physics</i> , 2019 , 20, 284-292	2.3	6
186	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	4	35
185	Radiomics analysis of pulmonary nodules in low-dose CT for early detection of lung cancer. <i>Medical Physics</i> , 2018 , 45, 1537-1549	4.4	68
184	Characterizing Cancer Drug Response and Biological Correlates: A Geometric Network Approach. <i>Scientific Reports</i> , 2018 , 8, 6402	4.9	9
183	Machine Learning on a Genome-wide Association Study to Predict Late Genitourinary Toxicity After Prostate Radiation Therapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2018 , 101, 128-135	4.5	41
182	Predicting hypoxia status using a combination of contrast-enhanced computed tomography and [F]-Fluorodeoxyglucose positron emission tomography radiomics features. <i>Radiotherapy and Oncology</i> , 2018 , 127, 36-42	5.3	37
181	MRI features predictive of negative surgical margins in patients with HER2 overexpressing breast cancer undergoing breast conservation. <i>Scientific Reports</i> , 2018 , 8, 315	4.9	4
180	Image-guided radiotherapy reduces the risk of under-dosing high-risk prostate cancer extra-capsular disease and improves biochemical control. <i>Radiation Oncology</i> , 2018 , 13, 64	4.2	3
179	Technical Note: Scintillation well counters and particle counting digital autoradiography devices can be used to detect activities associated with genomic profiling adequacy of biopsy specimens obtained after a low activity F-FDG injection. <i>Medical Physics</i> , 2018 , 45, 2179-2185	4.4	6
178	Inter-institutional analysis demonstrates the importance of lower than previously anticipated dose regions to prevent late rectal bleeding following prostate radiotherapy. <i>Radiotherapy and Oncology</i> , 2018 , 127, 88-95	5.3	11
177	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	4.9	20
176	Validating a Predictive Atlas of Tumor Shrinkage for Adaptive Radiotherapy of Locally Advanced Lung Cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2018 , 102, 978-986	4	11
175	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	4	20

174	Technical Note: Extension of CERR for computational radiomics: A comprehensive MATLAB platform for reproducible radiomics research. <i>Medical Physics</i> , 2018 , 45, 3713	4.4	66
173	Big Data Approaches to Improve Stereotactic Body Radiation Therapy (SBRT) Outcomes. <i>Advances in Medical Diagnosis, Treatment, and Care</i> , 2018 , 94-113	0.2	
172	Interpretable Spiculation Quantification for Lung Cancer Screening. <i>Lecture Notes in Computer Science</i> , 2018 , 38-48	0.9	2
171	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	4.6	20
170	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	4	27
169	Introduction of a pseudo demons force to enhance deformation range for robust reconstruction of super-resolution time-resolved 4DMRI. <i>Medical Physics</i> , 2018 , 45, 5197-5207	4.4	6
168	Quantification of Local Metabolic Tumor Volume Changes by Registering Blended PET-CT Images for Prediction of Pathologic Tumor Response. <i>Lecture Notes in Computer Science</i> , 2018 , 31-41	0.9	6
167	Robust radiotherapy planning. <i>Physics in Medicine and Biology</i> , 2018 , 63, 22TR02	3.8	75
166	A case-control study using motion-inclusive spatial dose-volume metrics to account for genito-urinary toxicity following high-precision radiotherapy for prostate cancer. <i>Physics and Imaging in Radiation Oncology</i> , 2018 , 7, 65-69	3.1	0
165	Tumor-aware, Adversarial Domain Adaptation from CT to MRI for Lung Cancer Segmentation. <i>Lecture Notes in Computer Science</i> , 2018 , 11071, 777-785	0.9	63
164	Predictors of acute throat or esophageal patient reported pain during radiation therapy for head and neck cancer. <i>Clinical and Translational Radiation Oncology</i> , 2018 , 13, 1-6	4.6	1
163	Correlation Between Tumor Metabolism and Semiquantitative Perfusion Magnetic Resonance Imaging Metrics in Non-Small Cell Lung Cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2018 , 102, 718-726	4	8
162	Parotid gland fat related Magnetic Resonance image biomarkers improve prediction of late radiation-induced xerostomia. <i>Radiotherapy and Oncology</i> , 2018 , 128, 459-466	5.3	35
161	Internal and external generalizability of temporal dose-response relationships for xerostomia following IMRT for head and neck cancer. <i>Radiotherapy and Oncology</i> , 2017 , 122, 200-206	5.3	3
160	Independent test of a model to predict severe acute esophagitis. <i>Advances in Radiation Oncology</i> , 2017 , 2, 37-43	3.3	11
159	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	3.6	10
158	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	4	19
157	Computational methods using genome-wide association studies to predict radiotherapy complications and to identify correlative molecular processes. <i>Scientific Reports</i> , 2017 , 7, 43381	4.9	19

156	A radiobiological model of radiotherapy response and its correlation with prognostic imaging variables. <i>Physics in Medicine and Biology</i> , 2017 , 62, 2658-2674	3.8	6
155	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	3.2	10
154	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	3.1	14
153	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	4.4	24
152	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	12.9	26
151	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	3.8	37
150	Simulating intrafraction prostate motion with a random walk model. <i>Advances in Radiation Oncology</i> , 2017 , 2, 429-436	3.3	7
149	A novel representation of inter-site tumour heterogeneity from pre-treatment computed tomography textures classifies ovarian cancers by clinical outcome. <i>European Radiology</i> , 2017 , 27, 3991-4001	8	65
148	A geometric atlas to predict lung tumor shrinkage for radiotherapy treatment planning. <i>Physics in Medicine and Biology</i> , 2017 , 62, 702-714	3.8	10
147	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	5.6	34
146	Beyond the margin recipe: the probability of correct target dosage and tumor control in the presence of a dose limiting structure. <i>Physics in Medicine and Biology</i> , 2017 , 62, 7874-7888	3.8	14
145	Spatial rectal dose/volume metrics predict patient-reported gastro-intestinal symptoms after radiotherapy for prostate cancer. <i>Acta Oncologica</i> , 2017 , 56, 1507-1513	3.2	14
144	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. <i>Journal of Computer Assisted Tomography</i> , 2017 , 41, 995-1001	2.2	13
143	Pediatric Sarcoma Data Forms a Unique Cluster Measured via the Earth Mover's Distance. <i>Scientific Reports</i> , 2017 , 7, 7035	4.9	7
142	IMRT QA using machine learning: A multi-institutional validation. <i>Journal of Applied Clinical Medical Physics</i> , 2017 , 18, 279-284	2.3	69
141	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	4.9	22
140	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	4	30
139	Identifying radiation-induced survivorship syndromes affecting bowel health in a cohort of gynecological cancer survivors. <i>PLoS ONE</i> , 2017 , 12, e0171461	3.7	23

138	Dose-volume factors correlating with trismus following chemoradiation for head and neck cancer. <i>Acta Oncologica</i> , 2016 , 55, 99-104	3.2	29
137	A literature mining-based approach for identification of cellular pathways associated with chemoresistance in cancer. <i>Briefings in Bioinformatics</i> , 2016 , 17, 468-78	13.4	6
136	A multiple-image-based method to evaluate the performance of deformable image registration in the pelvis. <i>Physics in Medicine and Biology</i> , 2016 , 61, 6172-80	3.8	3
135	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, 127-33	4	31
134	Adaptation, Commissioning, and Evaluation of a 3D Treatment Planning System for High-Resolution Small-Animal Irradiation. <i>Technology in Cancer Research and Treatment</i> , 2016 , 15, 460-71	2.7	6
133	Predictors of acute toxicities during definitive chemoradiation using intensity-modulated radiotherapy for anal squamous cell carcinoma. <i>Acta Oncologica</i> , 2016 , 55, 208-16	3.2	19
132	A Factor Analysis Approach for Clustering Patient Reported Outcomes. <i>Methods of Information in Medicine</i> , 2016 , 55, 431-439	1.5	7
131	Breast cancer molecular subtype classifier that incorporates MRI features. <i>Journal of Magnetic Resonance Imaging</i> , 2016 , 44, 122-9	5.6	89
130	Modification and validation of an analytical source model for external beam radiotherapy Monte Carlo dose calculations. <i>Medical Physics</i> , 2016 , 43, 4842	4.4	5
129	Transcriptional Responses to Ultraviolet and Ionizing Radiation: An Approach Based on Graph Curvature 2016 , 2016, 1302-1306	0.8	
128	Urinary bladder dose-response relationships for patient-reported genitourinary morbidity domains following prostate cancer radiotherapy. <i>Radiotherapy and Oncology</i> , 2016 , 119, 117-22	5.3	20
127	Functional Data Analysis Applied to Modeling of Severe Acute Mucositis and Dysphagia Resulting From Head and Neck Radiation Therapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2016 , 96, 820-831	4	12
126	AUTOMATIC DETECTION AND TRACKING OF LONGITUDINAL CHANGES OF MULTIPLE BONE METASTASES FROM DUAL ENERGY CT 2016 , 2016, 168-171	1.5	1
125	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, 1651-8	4.7	32
124	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, 1708-16	4.4	39
123	The Prediction of Radiotherapy Toxicity Using Single Nucleotide Polymorphism-Based Models: A Step Toward Prevention. <i>Seminars in Radiation Oncology</i> , 2015 , 25, 281-91	5.5	41
122	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, 548-54	4	27
121	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, 672-80	6.2	27

120	A Validated Prediction Model for Overall Survival From Stage III Non-Small Cell Lung Cancer: Toward Survival Prediction for Individual Patients. <i>International Journal of Radiation Oncology Biology Physics</i> , 2015 , 92, 935-44	4	63
119	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	17.5	123
118	Simultaneous segmentation and iterative registration method for computing ADC with reduced artifacts from DW-MRI. <i>Medical Physics</i> , 2015 , 42, 2249-60	4.4	5
117	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. <i>Journal of Nuclear Medicine</i> , 2015 , 56, 538-44	8.9	22
116	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, 1326-34	3.2	28
115	Automatic classification of prostate cancer Gleason scores from multiparametric magnetic resonance images. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, E6265-73	11.5	241
114	Reverse-Contrast Imaging and Targeted Radiation Therapy of Advanced Pancreatic Cancer Models. <i>International Journal of Radiation Oncology Biology Physics</i> , 2015 , 93, 444-53	4	8
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4	Identification of biological correlates associated with respiratory failure in COVID-19		1
3	Computed Tomography Measures of Inter-site tumor Heterogeneity for Classifying Outcomes in High-Grade Serous Ovarian Carcinoma: a Retrospective Study		2
2	Serum Alpha-2-Macroglobulin as an intrinsic radioprotective factor in patients undergoing thoracic radiation therapy		2
1	Portable framework to deploy deep learning segmentation models for medical images		1