

Issam El Naqa

List of Publications by Citations

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283
papers

12,374
citations

53
h-index

107
g-index

311
ext. papers

15,427
ext. citations

3.6
avg, IF

6.55
L-index

#	Paper	IF	Citations
283	The Image Biomarker Standardization Initiative: Standardized Quantitative Radiomics for High-Throughput Image-based Phenotyping. <i>Radiology</i> , 2020 , 295, 328-338	20.5	734
282	Radiation dose-volume effects in the lung. <i>International Journal of Radiation Oncology Biology Physics</i> , 2010 , 76, S70-6	4	704
281	Radiation dose-volume effects in the brain. <i>International Journal of Radiation Oncology Biology Physics</i> , 2010 , 76, S20-7	4	506
280	A radiomics model from joint FDG-PET and MRI texture features for the prediction of lung metastases in soft-tissue sarcomas of the extremities. <i>Physics in Medicine and Biology</i> , 2015 , 60, 5471-96	3.8	500
279	Prediction of both conserved and nonconserved microRNA targets in animals. <i>Bioinformatics</i> , 2008 , 24, 325-32	7.2	445
278	Exploring feature-based approaches in PET images for predicting cancer treatment outcomes. <i>Pattern Recognition</i> , 2009 , 42, 1162-1171	7.7	372
277	Computer-aided detection and diagnosis of breast cancer with mammography: recent advances. <i>IEEE Transactions on Information Technology in Biomedicine</i> , 2009 , 13, 236-51		344
276	Elective clinical target volumes for conformal therapy in anorectal cancer: a radiation therapy oncology group consensus panel contouring atlas. <i>International Journal of Radiation Oncology Biology Physics</i> , 2009 , 74, 824-30	4	320
275	¹⁸ F-FDG PET uptake characterization through texture analysis: investigating the complementary nature of heterogeneity and functional tumor volume in a multi-cancer site patient cohort. <i>Journal of Nuclear Medicine</i> , 2015 , 56, 38-44	8.9	310
274	RTOG GU Radiation oncology specialists reach consensus on pelvic lymph node volumes for high-risk prostate cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2009 , 74, 383-7	4	288
273	Pelvic normal tissue contouring guidelines for radiation therapy: a Radiation Therapy Oncology Group consensus panel atlas. <i>International Journal of Radiation Oncology Biology Physics</i> , 2012 , 83, e353-62	4.2	286
272	Consensus guidelines for delineation of clinical target volume for intensity-modulated pelvic radiotherapy for the definitive treatment of cervix cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2011 , 79, 348-55	4	279
271	PET-guided delineation of radiation therapy treatment volumes: a survey of image segmentation techniques. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2010 , 37, 2165-87	8.8	272
270	Development of RTOG consensus guidelines for the definition of the clinical target volume for postoperative conformal radiation therapy for prostate cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2010 , 76, 361-8	4	255
269	Radiomics strategies for risk assessment of tumour failure in head-and-neck cancer. <i>Scientific Reports</i> , 2017 , 7, 10117	4.9	245
268	A miR-200 microRNA cluster as prognostic marker in advanced ovarian cancer. <i>Gynecologic Oncology</i> , 2009 , 114, 457-64	4.9	236
267	Beyond imaging: The promise of radiomics. <i>Physica Medica</i> , 2017 , 38, 122-139	2.7	228

266	Dose-volume modeling of salivary function in patients with head-and-neck cancer receiving radiotherapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2005 , 62, 1055-69	4	204
265	Stereotactic body radiation therapy versus surgical resection for stage I non-small cell lung cancer. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2010 , 140, 377-86	1.5	190
264	18F-FDG PET definition of gross tumor volume for radiotherapy of non-small cell lung cancer: is a single standardized uptake value threshold approach appropriate?. <i>Journal of Nuclear Medicine</i> , 2006 , 47, 1808-12	8.9	173
263	Combined PET/CT image characteristics for radiotherapy tumor response in lung cancer. <i>Radiotherapy and Oncology</i> , 2012 , 102, 239-45	5.3	166
262	Modeling radiation pneumonitis risk with clinical, dosimetric, and spatial parameters. <i>International Journal of Radiation Oncology Biology Physics</i> , 2006 , 65, 112-24	4	161
261	Multivariable modeling of radiotherapy outcomes, including dose-volume and clinical factors. <i>International Journal of Radiation Oncology Biology Physics</i> , 2006 , 64, 1275-86	4	134
260	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, 985-92	4	127
259	Machine learning algorithms for outcome prediction in (chemo)radiotherapy: An empirical comparison of classifiers. <i>Medical Physics</i> , 2018 , 45, 3449-3459	4.4	123
258	Classification and evaluation strategies of auto-segmentation approaches for PET: Report of AAPM task group No. 211. <i>Medical Physics</i> , 2017 , 44, e1-e42	4.4	122
257	Dosimetric correlates for acute esophagitis in patients treated with radiotherapy for lung carcinoma. <i>International Journal of Radiation Oncology Biology Physics</i> , 2004 , 58, 1106-13	4	119
256	Liver metastasis restrains immunotherapy efficacy via macrophage-mediated T cell elimination. <i>Nature Medicine</i> , 2021 , 27, 152-164	50.5	117
255	Deep reinforcement learning for automated radiation adaptation in lung cancer. <i>Medical Physics</i> , 2017 , 44, 6690-6705	4.4	108
254	Stereotactic body radiation therapy for early-stage non-small-cell lung cancer: the pattern of failure is distant. <i>International Journal of Radiation Oncology Biology Physics</i> , 2010 , 77, 1146-50	4	107
253	Radiation dose-volume effects and the penile bulb. <i>International Journal of Radiation Oncology Biology Physics</i> , 2010 , 76, S130-4	4	102
252	Heart irradiation as a risk factor for radiation pneumonitis. <i>Acta Oncologica</i> , 2011 , 50, 51-60	3.2	99
251	Dose-response for stereotactic body radiotherapy in early-stage non-small-cell lung cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2011 , 81, e299-303	4	97
250	Long-term outcome in children treated for craniopharyngioma with and without radiotherapy. <i>Journal of Neurosurgery: Pediatrics</i> , 2008 , 1, 126-30	2.1	96
249	Concurrent multimodality image segmentation by active contours for radiotherapy treatment planning. <i>Medical Physics</i> , 2007 , 34, 4738-49	4.4	87

248	Tracking lung tissue motion and expansion/compression with inverse consistent image registration and spirometry. <i>Medical Physics</i> , 2007 , 34, 2155-63	4.4	87
247	Patterns of failure after stereotactic body radiation therapy or lobar resection for clinical stage I non-small-cell lung cancer. <i>Journal of Thoracic Oncology</i> , 2013 , 8, 192-201	8.9	86
246	Early and late lung radiographic injury following stereotactic body radiation therapy (SBRT). <i>Lung Cancer</i> , 2010 , 69, 77-85	5.9	84
245	FDG-PET-based prognostic nomograms for locally advanced cervical cancer. <i>Gynecologic Oncology</i> , 2012 , 127, 136-40	4.9	82
244	Tools for consensus analysis of experts' contours for radiotherapy structure definitions. <i>Radiotherapy and Oncology</i> , 2010 , 97, 572-8	5.3	77
243	4D-CT motion estimation using deformable image registration and 5D respiratory motion modeling. <i>Medical Physics</i> , 2008 , 35, 4577-90	4.4	77
242	In vivo IVUS-based 3-D fluid-structure interaction models with cyclic bending and anisotropic vessel properties for human atherosclerotic coronary plaque mechanical analysis. <i>IEEE Transactions on Biomedical Engineering</i> , 2009 , 56, 2420-8	5	76
241	A fast inverse consistent deformable image registration method based on symmetric optical flow computation. <i>Physics in Medicine and Biology</i> , 2008 , 53, 6143-65	3.8	74
240	Monte Carlo role in radiobiological modelling of radiotherapy outcomes. <i>Physics in Medicine and Biology</i> , 2012 , 57, R75-97	3.8	73
239	Technical note: DIRART--A software suite for deformable image registration and adaptive radiotherapy research. <i>Medical Physics</i> , 2011 , 38, 67-77	4.4	70
238	Machine and deep learning methods for radiomics. <i>Medical Physics</i> , 2020 , 47, e185-e202	4.4	68
237	Pretreatment 18F-FDG PET Textural Features in Locally Advanced Non-Small Cell Lung Cancer: Secondary Analysis of ACRIN 6668/RTOG 0235. <i>Journal of Nuclear Medicine</i> , 2016 , 57, 842-8	8.9	64
236	Development, external validation and clinical usefulness of a practical prediction model for radiation-induced dysphagia in lung cancer patients. <i>Radiotherapy and Oncology</i> , 2010 , 97, 455-61	5.3	62
235	Developing and Validating a Survival Prediction Model for NSCLC Patients Through Distributed Learning Across 3 Countries. <i>International Journal of Radiation Oncology Biology Physics</i> , 2017 , 99, 344-352	4	60
234	Predicting radiotherapy outcomes using statistical learning techniques. <i>Physics in Medicine and Biology</i> , 2009 , 54, S9-S30	3.8	59
233	Comparative methods for PET image segmentation in pharyngolaryngeal squamous cell carcinoma. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2012 , 39, 881-91	8.8	56
232	Event (error and near-miss) reporting and learning system for process improvement in radiation oncology. <i>Medical Physics</i> , 2010 , 37, 5027-36	4.4	55
231	Single- and Multi-Fraction Stereotactic Radiosurgery Dose Tolerances of the Optic Pathways. <i>International Journal of Radiation Oncology Biology Physics</i> , 2021 , 110, 87-99	4	53

230	Variation in the definition of clinical target volumes for pelvic nodal conformal radiation therapy for prostate cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2009 , 74, 377-82	4	51
229	Machine (Deep) Learning Methods for Image Processing and Radiomics. <i>IEEE Transactions on Radiation and Plasma Medical Sciences</i> , 2019 , 3, 104-108	4.2	50
228	Dosimetric predictors of chest wall pain after lung stereotactic body radiotherapy. <i>Radiotherapy and Oncology</i> , 2012 , 104, 23-7	5.3	49
227	Deblurring of breathing motion artifacts in thoracic PET images by deconvolution methods. <i>Medical Physics</i> , 2006 , 33, 3587-600	4.4	49
226	The role of quantitative PET in predicting cancer treatment outcomes. <i>Clinical and Translational Imaging</i> , 2014 , 2, 305-320	2	48
225	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, 1674-9	4	48
224	Glioblastoma in children: a single-institution experience. <i>International Journal of Radiation Oncology Biology Physics</i> , 2011 , 80, 1117-21	4	47
223	A Bayesian network approach for modeling local failure in lung cancer. <i>Physics in Medicine and Biology</i> , 2011 , 56, 1635-51	3.8	46
222	Predictors of Dysgeusia in Patients With Oropharyngeal Cancer Treated With Chemotherapy and Intensity Modulated Radiation Therapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2016 , 96, 354-361	4	46
221	Machine learning and modeling: Data, validation, communication challenges. <i>Medical Physics</i> , 2018 , 45, e834-e840	4.4	46
220	Datamining approaches for modeling tumor control probability. <i>Acta Oncologica</i> , 2010 , 49, 1363-73	3.2	43
219	The big data effort in radiation oncology: Data mining or data farming?. <i>Advances in Radiation Oncology</i> , 2016 , 1, 260-271	3.3	38
218	Unraveling biophysical interactions of radiation pneumonitis in non-small-cell lung cancer via Bayesian network analysis. <i>Radiotherapy and Oncology</i> , 2017 , 123, 85-92	5.3	37
217	A bioinformatics approach for biomarker identification in radiation-induced lung inflammation from limited proteomics data. <i>Journal of Proteome Research</i> , 2011 , 10, 1406-15	5.6	36
216	Deformable registration of abdominal kilovoltage treatment planning CT and tomotherapy daily megavoltage CT for treatment adaptation. <i>Medical Physics</i> , 2009 , 36, 329-38	4.4	36
215	Tumor control probability modeling for stereotactic body radiation therapy of early-stage lung cancer using multiple bio-physical models. <i>Radiotherapy and Oncology</i> , 2017 , 122, 286-294	5.3	35
214	Artificial Intelligence: reshaping the practice of radiological sciences in the 21st century. <i>British Journal of Radiology</i> , 2020 , 93, 20190855	3.4	34
213	Bayesian network ensemble as a multivariate strategy to predict radiation pneumonitis risk. <i>Medical Physics</i> , 2015 , 42, 2421-30	4.4	34

212	Radiogenomics and radiotherapy response modeling. <i>Physics in Medicine and Biology</i> , 2017 , 62, R179-R2068	3.6	33
211	Learning a channelized observer for image quality assessment. <i>IEEE Transactions on Medical Imaging</i> , 2009 , 28, 991-9	11.7	33
210	On the consistency of Monte Carlo track structure DNA damage simulations. <i>Medical Physics</i> , 2014 , 41, 121708	4.4	32
209	Immunomodulatory Effects of Stereotactic Body Radiation Therapy: Preclinical Insights and Clinical Opportunities. <i>International Journal of Radiation Oncology Biology Physics</i> , 2021 , 110, 35-52	4	31
208	Toward a standard for the evaluation of PET-Auto-Segmentation methods following the recommendations of AAPM task group No. 211: Requirements and implementation. <i>Medical Physics</i> , 2017 , 44, 4098-4111	4.4	28
207	A multiobjective Bayesian networks approach for joint prediction of tumor local control and radiation pneumonitis in nonsmall-cell lung cancer (NSCLC) for response-adapted radiotherapy. <i>Medical Physics</i> , 2018 , 45, 3980	4.4	28
206	Big Data Analytics for Prostate Radiotherapy. <i>Frontiers in Oncology</i> , 2016 , 6, 149	5.3	28
205	Experimental evaluation of x-ray acoustic computed tomography for radiotherapy dosimetry applications. <i>Medical Physics</i> , 2017 , 44, 608-617	4.4	27
204	Dosimetric consequences of uncorrected setup errors in helical Tomotherapy treatments of breast-cancer patients. <i>Radiotherapy and Oncology</i> , 2009 , 93, 64-70	5.3	27
203	NCTN Assessment on Current Applications of Radiomics in Oncology. <i>International Journal of Radiation Oncology Biology Physics</i> , 2019 , 104, 302-315	4	26
202	Development of a Fully Cross-Validated Bayesian Network Approach for Local Control Prediction in Lung Cancer. <i>IEEE Transactions on Radiation and Plasma Medical Sciences</i> , 2019 , 3, 232-241	4.2	26
201	Machine Learning and Imaging Informatics in Oncology. <i>Oncology</i> , 2020 , 98, 344-362	3.6	26
200	Ionizing radiation-induced acoustics for radiotherapy and diagnostic radiology applications. <i>Medical Physics</i> , 2018 , 45, e707-e721	4.4	25
199	Introduction to Big Data in Radiation Oncology: Exploring Opportunities for Research, Quality Assessment, and Clinical Care. <i>International Journal of Radiation Oncology Biology Physics</i> , 2016 , 95, 871-872	4.7	25
198	Estimation of setup uncertainty using planar and MVCT imaging for gynecologic malignancies. <i>International Journal of Radiation Oncology Biology Physics</i> , 2008 , 71, 1511-7	4	25
197	Quantitative assessment of coronary artery plaque vulnerability by high-resolution magnetic resonance imaging and computational biomechanics: a pilot study ex vivo. <i>Magnetic Resonance in Medicine</i> , 2005 , 54, 1360-8	4.4	24
196	Contrasting analytical and data-driven frameworks for radiogenomic modeling of normal tissue toxicities in prostate cancer. <i>Radiotherapy and Oncology</i> , 2015 , 115, 107-13	5.3	23
195	Introduction to machine and deep learning for medical physicists. <i>Medical Physics</i> , 2020 , 47, e127-e147	4.4	23

194	Modeling of Normal Tissue Complications Using Imaging and Biomarkers After Radiation Therapy for Hepatocellular Carcinoma. <i>International Journal of Radiation Oncology Biology Physics</i> , 2018 , 100, 335-343	4	23
193	Targeted contrast agent helps to monitor advanced plaque during progression: a magnetic resonance imaging study in rabbits. <i>Investigative Radiology</i> , 2008 , 43, 49-55	10.1	23
192	Perspectives on making big data analytics work for oncology. <i>Methods</i> , 2016 , 111, 32-44	4.6	23
191	Head and Neck Tumor Control Probability: Radiation Dose-Volume Effects in Stereotactic Body Radiation Therapy for Locally Recurrent Previously-Irradiated Head and Neck Cancer: Report of the AAPM Working Group. <i>International Journal of Radiation Oncology Biology Physics</i> , 2021 , 110, 137-146	4	23
190	Machine learning for radiomics-based multimodality and multiparametric modeling. <i>Quarterly Journal of Nuclear Medicine and Molecular Imaging</i> , 2019 , 63, 323-338	1.4	22
189	Radiation Fractionation Schedules Published During the COVID-19 Pandemic: A Systematic Review of the Quality of Evidence and Recommendations for Future Development. <i>International Journal of Radiation Oncology Biology Physics</i> , 2020 , 108, 379-389	4	22
188	Prediction of the thermal comfort indices using improved support vector machine classifiers and nonlinear kernel functions. <i>Indoor and Built Environment</i> , 2016 , 25, 6-16	1.8	21
187	A prediction model for early death in non-small cell lung cancer patients following curative-intent chemoradiotherapy. <i>Acta Oncologica</i> , 2018 , 57, 226-230	3.2	21
186	Radiation-Induced Edema After Single-Fraction or Multifraction Stereotactic Radiosurgery for Meningioma: A Critical Review. <i>International Journal of Radiation Oncology Biology Physics</i> , 2018 , 101, 344-357	4	20
185	Variation in the gross tumor volume and clinical target volume for preoperative radiotherapy of primary large high-grade soft tissue sarcoma of the extremity among RTOG sarcoma radiation oncologists. <i>International Journal of Radiation Oncology Biology Physics</i> , 2011 , 81, e775-80	4	20
184	Early Changes in Serial CBCT-Measured Parotid Gland Biomarkers Predict Chronic Xerostomia After Head and Neck Radiation Therapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2018 , 102, 1319-1329	4	20
183	The Role of Machine Learning in Knowledge-Based Response-Adapted Radiotherapy. <i>Frontiers in Oncology</i> , 2018 , 8, 266	5.3	19
182	Balancing accuracy and interpretability of machine learning approaches for radiation treatment outcomes modeling. <i>BJR/Open</i> , 2019 , 1, 20190021	1.4	19
181	Multimodality imaging of gene transfer with a receptor-based reporter gene. <i>Journal of Nuclear Medicine</i> , 2010 , 51, 1456-63	8.9	19
180	Novel Quantitative PET Techniques for Clinical Decision Support in Oncology. <i>Seminars in Nuclear Medicine</i> , 2018 , 48, 548-564	5.4	18
179	Tracking of Mesenchymal Stem Cells with Fluorescence Endomicroscopy Imaging in Radiotherapy-Induced Lung Injury. <i>Scientific Reports</i> , 2017 , 7, 40748	4.9	17
178	Combining handcrafted features with latent variables in machine learning for prediction of radiation-induced lung damage. <i>Medical Physics</i> , 2019 , 46, 2497-2511	4.4	17
177	Machine learning for automated quality assurance in radiotherapy: A proof of principle using EPID data description. <i>Medical Physics</i> , 2019 , 46, 1914-1921	4.4	17

176	Radiomics in precision medicine for lung cancer. <i>Translational Lung Cancer Research</i> , 2017 , 6, 635-647	4.4	17
175	Lessons From Large-Scale Collection of Patient-Reported Outcomes: Implications for Big Data Aggregation and Analytics. <i>International Journal of Radiation Oncology Biology Physics</i> , 2016 , 95, 922-929 ⁴		17
174	A Learning Machine Approach for Predicting Thermal Comfort Indices. <i>International Journal of Ventilation</i> , 2005 , 3, 363-376	1.1	17
173	Proton and light ion RBE for the induction of direct DNA double strand breaks. <i>Medical Physics</i> , 2016 , 43, 2131	4.4	17
172	Enhancement of multimodality texture-based prediction models via optimization of PET and MR image acquisition protocols: a proof of concept. <i>Physics in Medicine and Biology</i> , 2017 , 62, 8536-8565	3.8	16
171	Bioinformatics methods for learning radiation-induced lung inflammation from heterogeneous retrospective and prospective data. <i>Journal of Biomedicine and Biotechnology</i> , 2009 , 2009, 892863		16
170	Prostate Stereotactic Body Radiation Therapy: An Overview of Toxicity and Dose Response. <i>International Journal of Radiation Oncology Biology Physics</i> , 2021 , 110, 237-248	4	16
169	On the Detectability of Acoustic Waves Induced Following Irradiation by a Radiotherapy Linear Accelerator. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2016 , 63, 683-690	3.2	15
168	Toward in vivo dosimetry in external beam radiotherapy using x-ray acoustic computed tomography: A soft-tissue phantom study validation. <i>Medical Physics</i> , 2018 , 45, 4191	4.4	15
167	Can radiomics personalise immunotherapy?. <i>Lancet Oncology, The</i> , 2018 , 19, 1138-1139	21.7	15
166	Retrospective monte carlo dose calculations with limited beam weight information. <i>Medical Physics</i> , 2007 , 34, 334-46	4.4	15
165	Prospects and challenges for clinical decision support in the era of big data. <i>JCO Clinical Cancer Informatics</i> , 2018 , 2,	5.2	15
164	Technical note: deformable image registration on partially matched images for radiotherapy applications. <i>Medical Physics</i> , 2010 , 37, 141-5	4.4	14
163	Esophageal carcinoma with celiac nodal metastases; curative or palliative?. <i>Journal of Thoracic Oncology</i> , 2008 , 3, 751-5	8.9	14
162	CT localization of axillary lymph nodes in relation to the humeral head: significance of arm position for radiation therapy planning. <i>Radiotherapy and Oncology</i> , 2005 , 77, 191-3	5.3	14
161	Image-based modeling of normal tissue complication probability for radiation therapy. <i>Cancer Treatment and Research</i> , 2008 , 139, 215-56	3.5	14
160	Novel multimodality segmentation using level sets and Jensen-Rényi divergence. <i>Medical Physics</i> , 2013 , 40, 121908	4.4	13
159	Adaptive learning for relevance feedback: application to digital mammography. <i>Medical Physics</i> , 2010 , 37, 4432-44	4.4	13

158	Dual-Modality X-Ray-Induced Radiation Acoustic and Ultrasound Imaging for Real-Time Monitoring of Radiotherapy. <i>BME Frontiers</i> , 2020 , 2020, 1-10	4.4	13
157	On the Fuzziness of Machine Learning, Neural Networks, and Artificial Intelligence in Radiation Oncology. <i>International Journal of Radiation Oncology Biology Physics</i> , 2018 , 100, 1-4	4	13
156	Automatic recognition and analysis of metal streak artifacts in head and neck computed tomography for radiomics modeling. <i>Physics and Imaging in Radiation Oncology</i> , 2019 , 10, 49-54	3.1	12
155	A comparative analysis of longitudinal computed tomography and histopathology for evaluating the potential of mesenchymal stem cells in mitigating radiation-induced pulmonary fibrosis. <i>Scientific Reports</i> , 2017 , 7, 9056	4.9	12
154	Biomedical informatics and panomics for evidence-based radiation therapy. <i>Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery</i> , 2014 , 4, 327-340	6.9	12
153	Machine learning methods for predicting tumor response in lung cancer. <i>Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery</i> , 2012 , 2, 173-181	6.9	12
152	Distribution of lung tissue hysteresis during free breathing. <i>Medical Physics</i> , 2013 , 40, 043501	4.4	12
151	Image-Based Modeling of Normal Tissue Complication Probability for Radiation Therapy. <i>Cancer Treatment and Research</i> , 2008 , 211-252	3.5	11
150	Dosimetric Analysis and Normal-Tissue Complication Probability Modeling of Child-Pugh Score and Albumin-Bilirubin Grade Increase After Hepatic Irradiation. <i>International Journal of Radiation Oncology Biology Physics</i> , 2020 , 107, 986-995	4	11
149	Tumor Control Probability of Radiosurgery and Fractionated Stereotactic Radiosurgery for Brain Metastases. <i>International Journal of Radiation Oncology Biology Physics</i> , 2021 , 110, 53-67	4	11
148	PET/MRI and prostate cancer. <i>Clinical and Translational Imaging</i> , 2016 , 4, 473-485	2	11
147	Artificial Neural Network with Composite Architectures for Prediction of Local Control in Radiotherapy. <i>IEEE Transactions on Radiation and Plasma Medical Sciences</i> , 2019 , 3, 242-249	4.2	11
146	Volumetric F-FDG-PET parameters as predictors of locoregional failure in low-risk HPV-related oropharyngeal cancer after definitive chemoradiation therapy. <i>Head and Neck</i> , 2019 , 41, 366-373	4.2	11
145	Investigation of a breathing surrogate prediction algorithm for prospective pulmonary gating. <i>Medical Physics</i> , 2011 , 38, 1587-95	4.4	10
144	Analytical modelling of regional radiotherapy dose response of lung. <i>Physics in Medicine and Biology</i> , 2012 , 57, 3309-21	3.8	10
143	Outcome modeling techniques for prostate cancer radiotherapy: Data, models, and validation. <i>Physica Medica</i> , 2016 , 32, 512-20	2.7	10
142	Local Control After Stereotactic Body Radiation Therapy for Stage I Non-Small Cell Lung Cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2021 , 110, 160-171	4	10
141	Can dose outside the PTV influence the risk of distant metastases in stage I lung cancer patients treated with stereotactic body radiotherapy (SBRT)?. <i>Radiotherapy and Oncology</i> , 2018 , 128, 513-519	5.3	10

140	Variability in clinical target volume delineation for intensity modulated radiation therapy in 3 challenging cervix cancer scenarios. <i>Practical Radiation Oncology</i> , 2015 , 5, e557-65	2.8	9
139	Electron Density and Biologically Effective Dose (BED) Radiomics-Based Machine Learning Models to Predict Late Radiation-Induced Subcutaneous Fibrosis. <i>Frontiers in Oncology</i> , 2020 , 10, 490	5.3	9
138	Power-law stochastic neighbor embedding 2017 ,		9
137	A Guide to Outcome Modeling in Radiotherapy and Oncology		9
136	Quantitative Molecular Positron Emission Tomography Imaging Using Advanced Deep Learning Techniques. <i>Annual Review of Biomedical Engineering</i> , 2021 , 23, 249-276	12	9
135	Tumor Control Probability Modeling and Systematic Review of the Literature of Stereotactic Body Radiation Therapy for Prostate Cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2021 , 110, 227-236	4	9
134	Serum Levels of Hepatocyte Growth Factor and CD40 Ligand Predict Radiation-Induced Liver Injury. <i>Translational Oncology</i> , 2019 , 12, 889-894	4.9	8
133	Characterization of X-Ray Acoustic Computed Tomography for Applications in Radiotherapy Dosimetry. <i>IEEE Transactions on Radiation and Plasma Medical Sciences</i> , 2018 , 2, 337-344	4.2	8
132	Modeling radiation-induced lung injury risk with an ensemble of support vector machines. <i>Neurocomputing</i> , 2010 , 73, 1861-1867	5.4	8
131	Nonlinear Kernel-Based Approaches for Predicting Normal Tissue Toxicities 2008 ,		8
130	Neurocognitive Effects and Necrosis in Childhood Cancer Survivors Treated With Radiation Therapy: A PENTEC Comprehensive Review. <i>International Journal of Radiation Oncology Biology Physics</i> , 2021 ,	4	8
129	Requirements and reliability of AI in the medical context. <i>Physica Medica</i> , 2021 , 83, 72-78	2.7	8
128	Integrating Multiomics Information in Deep Learning Architectures for Joint Actuarial Outcome Prediction in Non-Small Cell Lung Cancer Patients After Radiation Therapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2021 , 110, 893-904	4	8
127	Prediction of skin dose in low-kV intraoperative radiotherapy using machine learning models trained on results of in vivo dosimetry. <i>Medical Physics</i> , 2019 , 46, 1447-1454	4.4	8
126	Bayesian Network Learning for Detecting Reliable Interactions of Dose-Volume Related Parameters in Radiation Pneumonitis 2009 ,		7
125	Characterization of the Tumor Immune Microenvironment Identifies M0 Macrophage-Enriched Cluster as a Poor Prognostic Factor in Hepatocellular Carcinoma. <i>JCO Clinical Cancer Informatics</i> , 2020 , 4, 1002-1013	5.2	7
124	Mesenchymal Stem Cells Adopt Lung Cell Phenotype in Normal and Radiation-induced Lung Injury Conditions. <i>Applied Immunohistochemistry and Molecular Morphology</i> , 2016 , 24, 283-95	1.9	7
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