

Issam El Naqa

List of Publications by Year in Descending Order

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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.

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	Classification of Malignant and Benign Tumors 2022 , 205-229		0
282	Prediction of Oncology Treatment Outcomes 2022 , 361-383		
281	Overview of Deep Machine Learning Methods 2022 , 51-77		
280	Smart Adaptive Treatment Strategies 2022 , 439-452		
279	Modelling of Radiotherapy Response (TCP/NTCP) 2022 , 399-437		
278	Quantum Computing for Machine Learning 2022 , 79-102		0
277	Conventional Machine Learning Methods 2022 , 27-50		
276	Advanced Topics in Particle Radiotherapy. <i>IEEE Transactions on Radiation and Plasma Medical Sciences</i> , 2022 , 1-1	4.2	
275	Imaging response assessment for predicting outcomes after bioselection chemotherapy in larynx cancer: A secondary analysis of two prospective trials.. <i>Clinical and Translational Radiation Oncology</i> , 2022 , 33, 30-36	4.6	
274	Predictive Modeling of Survival and Toxicity in Patients With Hepatocellular Carcinoma After Radiotherapy.. <i>JCO Clinical Cancer Informatics</i> , 2022 , 6, e2100169	5.2	
273	Improved prediction of radiation pneumonitis by combining biological and radiobiological parameters using a data-driven Bayesian network analysis.. <i>Translational Oncology</i> , 2022 , 21, 101428	4.9	0
272	Cluster model incorporating heterogeneous dose distribution of partial parotid irradiation for radiotherapy induced xerostomia prediction with machine learning methods.. <i>Acta Oncologica</i> , 2022 , 1-7	3.2	
271	Precision radiotherapy via information integration of expert human knowledge and AI recommendation to optimize clinical decision making. <i>Computer Methods and Programs in Biomedicine</i> , 2022 , 221, 106927	6.9	0
270	A systematic review and quality of reporting checklist for repeatability and reproducibility of radiomic features. <i>Physics and Imaging in Radiation Oncology</i> , 2021 , 20, 69-75	3.1	1
269	Radiomic and radiogenomic modeling for radiotherapy: strategies, pitfalls, and challenges. <i>Journal of Medical Imaging</i> , 2021 , 8, 031902	2.6	1
268	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
267	Requirements and reliability of AI in the medical context. <i>Physica Medica</i> , 2021 , 83, 72-78	2.7	8

266	Quantitative Molecular Positron Emission Tomography Imaging Using Advanced Deep Learning Techniques. <i>Annual Review of Biomedical Engineering</i> , 2021 , 23, 249-276	12	9
265	A Primer on Dose-Response Data Modeling in Radiation Therapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2021 , 110, 11-20	4	3
264	Stereotactic Radiosurgery for Vestibular Schwannomas: Tumor Control Probability Analyses and Recommended Reporting Standards. <i>International Journal of Radiation Oncology Biology Physics</i> , 2021 , 110, 100-111	4	4
263	Stereotactic Body Radiation Therapy for Spinal Metastases: Tumor Control Probability Analyses and Recommended Reporting Standards. <i>International Journal of Radiation Oncology Biology Physics</i> , 2021 , 110, 112-123	4	6
262	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
261	Investigating the SPECT Dose-Function Metrics Associated With Radiation-Induced Lung Toxicity Risk in Patients With Non-small Cell Lung Cancer Undergoing Radiation Therapy. <i>Advances in Radiation Oncology</i> , 2021 , 6, 100666	3.3	0
260	Modeling of Tumor Control Probability in Stereotactic Body Radiation Therapy for Adrenal Tumors. <i>International Journal of Radiation Oncology Biology Physics</i> , 2021 , 110, 217-226	4	1
259	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
258	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
257	Prospective clinical deployment of machine learning in radiation oncology. <i>Nature Reviews Clinical Oncology</i> , 2021 , 18, 605-606	19.4	3
256	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
255	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
254	National Cancer Institute Workshop on Artificial Intelligence in Radiation Oncology: Training the Next Generation. <i>Practical Radiation Oncology</i> , 2021 , 11, 74-83	2.8	3
253	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
252	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
251	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
250	Artificial Intelligence for Response Evaluation With PET/CT. <i>Seminars in Nuclear Medicine</i> , 2021 , 51, 157-169	3	3
249	Fundamentals of Radiomics in Nuclear Medicine and Hybrid Imaging 2021 , 441-469		0

248	A deep survival interpretable radiomics model of hepatocellular carcinoma patients. <i>Physica Medica</i> , 2021 , 82, 295-305	2.7	7
247	Application of radiochromic gel dosimetry to commissioning of a megavoltage research linear accelerator for small-field animal irradiation studies. <i>Medical Physics</i> , 2021 , 48, 1404-1416	4.4	1
246	In Reply to Schultheiss. <i>International Journal of Radiation Oncology Biology Physics</i> , 2021 , 110, 1541-1543		
245	A simulation study of ionizing radiation acoustic imaging (iRAI) as a real-time dosimetric technique for ultra-high dose rate radiotherapy (UHDR-RT). <i>Medical Physics</i> , 2021 , 48, 6137-6151	4.4	0
244	Combining computed tomography and biologically effective dose in radiomics and deep learning improves prediction of tumor response to robotic lung stereotactic body radiation therapy. <i>Medical Physics</i> , 2021 , 48, 6257-6269	4.4	4
243	Lessons learned in transitioning to AI in the medical imaging of COVID-19. <i>Journal of Medical Imaging</i> , 2021 , 8, 010902-10902	2.6	2
242	Comparison of quantitative and qualitative scoring approaches for radiation-induced pulmonary fibrosis as applied to a preliminary investigation into the efficacy of mesenchymal stem cell delivery methods in a rat model. <i>BJR/Open</i> , 2021 , 2, 20210006	1.4	
241	Liver metastasis restrains immunotherapy efficacy via macrophage-mediated T cell elimination. <i>Nature Medicine</i> , 2021 , 27, 152-164	50.5	117
240	Quantum deep reinforcement learning for clinical decision support in oncology: application to adaptive radiotherapy. <i>Scientific Reports</i> , 2021 , 11, 23545	4.9	1
239	Machine and deep learning methods for radiomics. <i>Medical Physics</i> , 2020 , 47, e185-e202	4.4	68
238	The role of machine and deep learning in modern medical physics. <i>Medical Physics</i> , 2020 , 47, e125-e126	4.4	6
237	Introduction to machine and deep learning for medical physicists. <i>Medical Physics</i> , 2020 , 47, e127-e147	4.4	23
236	Oncology Informatics: Status Quo and Outlook. <i>Oncology</i> , 2020 , 98, 329-331	3.6	5
235	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
234	The Image Biomarker Standardization Initiative: Standardized Quantitative Radiomics for High-Throughput Image-based Phenotyping. <i>Radiology</i> , 2020 , 295, 328-338	20.5	734
233	An ionizing radiation acoustic imaging (iRAI) technique for real-time dosimetric measurements for FLASH radiotherapy. <i>Medical Physics</i> , 2020 , 47, 5090-5101	4.4	5
232	Tumor Immune Microenvironment Clusters in Localized Prostate Adenocarcinoma: Prognostic Impact of Macrophage Enriched/Plasma Cell Non-Enriched Subtypes. <i>Journal of Clinical Medicine</i> , 2020 , 9,	5.1	5
231	Comparing local control and distant metastasis in NSCLC patients between CyberKnife and conventional SBRT. <i>Radiotherapy and Oncology</i> , 2020 , 144, 201-208	5.3	5

230	Artificial Intelligence: reshaping the practice of radiological sciences in the 21st century. <i>British Journal of Radiology</i> , 2020 , 93, 20190855	3-4	34
229	Tumor response prediction in Y radioembolization with PET-based radiomics features and absorbed dose metrics. <i>EJNMMI Physics</i> , 2020 , 7, 74	4-4	4
228	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
227	Quantum-inspired algorithm for radiotherapy planning optimization. <i>Medical Physics</i> , 2020 , 47, 5-18	4-4	3
226	Step-size effect on calculated photon and electron beam Cherenkov-to-dose conversion factors. <i>Physica Medica</i> , 2020 , 78, 32-37	2-7	
225	Introduction to special issue on datasets hosted in The Cancer Imaging Archive (TCIA). <i>Medical Physics</i> , 2020 , 47, 6026-6028	4-4	3
224	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
223	Current status of Radiomics for cancer management: Challenges versus opportunities for clinical practice. <i>Journal of Applied Clinical Medical Physics</i> , 2020 , 21, 7-10	2-3	3
222	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
221	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
220	Machine Learning and Imaging Informatics in Oncology. <i>Oncology</i> , 2020 , 98, 344-362	3-6	26
219	Predicting late radiation-induced xerostomia with parotid gland PET biomarkers and dose metrics. <i>Radiotherapy and Oncology</i> , 2020 , 148, 30-37	5-3	4
218	Silicon Photomultipliers for Deep Tissue Cerenkov Emission Detection During External Beam Radiotherapy. <i>IEEE Photonics Journal</i> , 2019 , 11,	1-8	2
217	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
216	NCTN Assessment on Current Applications of Radiomics in Oncology. <i>International Journal of Radiation Oncology Biology Physics</i> , 2019 , 104, 302-315	4	26
215	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
214	Cherenkov emission-based external radiotherapy dosimetry: I. Formalism and feasibility. <i>Medical Physics</i> , 2019 , 46, 2370-2382	4-4	3
213	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

212	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
211	Cherenkov emission-based external radiotherapy dosimetry: II. Electron beam quality specification and uncertainties. <i>Medical Physics</i> , 2019 , 46, 2383-2393	4.4	3
210	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
209	Balancing accuracy and interpretability of machine learning approaches for radiation treatment outcomes modeling. <i>BJR/Open</i> , 2019 , 1, 20190021	1.4	19
208	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
207	Integrating radiomics into clinical trial design. <i>Quarterly Journal of Nuclear Medicine and Molecular Imaging</i> , 2019 , 63, 339-346	1.4	5
206	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
205	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
204	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
203	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
202	Ionizing radiation-induced acoustics for radiotherapy and diagnostic radiology applications. <i>Medical Physics</i> , 2018 , 45, e707-e721	4.4	25
201	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
200	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
199	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
198	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
197	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
196	Modeling Patient-Specific Dose-Function Response for Enhanced Characterization of Personalized Functional Damage. <i>International Journal of Radiation Oncology Biology Physics</i> , 2018 , 102, 1265-1275	4	3
195	The Role of Machine Learning in Knowledge-Based Response-Adapted Radiotherapy. <i>Frontiers in Oncology</i> , 2018 , 8, 266	5.3	19

194	Can radiomics personalise immunotherapy?. <i>Lancet Oncology, The</i> , 2018 , 19, 1138-1139	21.7	15
193	Radiogenomics is the future of treatment response assessment in clinical oncology. <i>Medical Physics</i> , 2018 , 45, 4325-4328	4.4	5
192	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
191	Radiomics. <i>Advances in Medical Diagnosis, Treatment, and Care</i> , 2018 , 191-217	0.2	
190	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	
189	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
188	Prospects and challenges for clinical decision support in the era of big data. <i>JCO Clinical Cancer Informatics</i> , 2018 , 2,	5.2	15
187	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
186	Novel Quantitative PET Techniques for Clinical Decision Support in Oncology. <i>Seminars in Nuclear Medicine</i> , 2018 , 48, 548-564	5.4	18
185	Machine learning and modeling: Data, validation, communication challenges. <i>Medical Physics</i> , 2018 , 45, e834-e840	4.4	46
184	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
183	Investigating the role of functional imaging in the management of soft-tissue sarcomas of the extremities. <i>Physics and Imaging in Radiation Oncology</i> , 2018 , 6, 53-60	3.1	2
182	Fluorescence Endomicroscopy Imaging of Mesenchymal Stem Cells in the Rat Lung. <i>Current Protocols in Stem Cell Biology</i> , 2018 , 45, e52	2.8	1
181	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
180	Tracking of Mesenchymal Stem Cells with Fluorescence Endomicroscopy Imaging in Radiotherapy-Induced Lung Injury. <i>Scientific Reports</i> , 2017 , 7, 40748	4.9	17
179	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
178	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
177	Computerized Prediction of Treatment Outcomes and Radiomics Analysis 2017 , 357-375		

176	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
175	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	4.4	60
174	Beyond imaging: The promise of radiomics. <i>Physica Medica</i> , 2017 , 38, 122-139	2.7	228
173	Experimental evaluation of x-ray acoustic computed tomography for radiotherapy dosimetry applications. <i>Medical Physics</i> , 2017 , 44, 608-617	4.4	27
172	Deep reinforcement learning for automated radiation adaptation in lung cancer. <i>Medical Physics</i> , 2017 , 44, 6690-6705	4.4	108
171	Radiomics in precision medicine for lung cancer. <i>Translational Lung Cancer Research</i> , 2017 , 6, 635-647	4.4	17
170	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
169	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
168	Radiation Sensitivity of the Liver: Models and Clinical Data 2017 , 39-47		0
167	Power-law stochastic neighbor embedding 2017 ,		9
166	Radiogenomics and radiotherapy response modeling. <i>Physics in Medicine and Biology</i> , 2017 , 62, R179-R206	3.8	33
165	Image Processing and Analysis of PET and Hybrid PET Imaging 2017 , 285-301		
164	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
163	Image-Guided Fluorescence Endomicroscopy: From Macro- to Micro-Imaging of Radiation-Induced Pulmonary Fibrosis. <i>Scientific Reports</i> , 2017 , 7, 17829	4.9	5
162	Radiomics strategies for risk assessment of tumour failure in head-and-neck cancer. <i>Scientific Reports</i> , 2017 , 7, 10117	4.9	245
161	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
160	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
159	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

158	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
157	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
156	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
155	Sci-Thur AM: YIS 102: Imaging dose distributions through the detection of radiation-induced acoustic waves. <i>Medical Physics</i> , 2016 , 43, 4928-4928	4.4	1
154	Sci-Thur AM: YIS 110: Modeling Metastasis after Lung SBRT Using Bayesian Network Averaging. <i>Medical Physics</i> , 2016 , 43, 4930-4930	4.4	1
153	The Role of Big Data in Radiation Oncology 2016 , 1519-1542		
152	Sci-Thur AM: YIS 104: Stopping power-to-Cherenkov power ratios and beam quality specification for clinical Cherenkov emission dosimetry of electrons: beam-specific effects and experimental validation. <i>Medical Physics</i> , 2016 , 43, 4929-4929	4.4	
151	Big Data Analytics for Prostate Radiotherapy. <i>Frontiers in Oncology</i> , 2016 , 6, 149	5.3	28
150	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
149	PET/MRI and prostate cancer. <i>Clinical and Translational Imaging</i> , 2016 , 4, 473-485	2	11
148	A 4D biomechanical lung phantom for joint segmentation/registration evaluation. <i>Physics in Medicine and Biology</i> , 2016 , 61, 7012-7030	3.8	6
147	Proton and light ion RBE for the induction of direct DNA double strand breaks. <i>Medical Physics</i> , 2016 , 43, 2131	4.4	17
146	Outcome modeling techniques for prostate cancer radiotherapy: Data, models, and validation. <i>Physica Medica</i> , 2016 , 32, 512-20	2.7	10
145	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
144	Perspectives on making big data analytics work for oncology. <i>Methods</i> , 2016 , 111, 32-44	4.6	23
143	Detection and Prediction of Radiotherapy Errors 2015 , 237-241		3
142	Bioinformatics of Treatment Response 2015 , 263-276		
141	Modeling of Tumor Control Probability (TCP) 2015 , 311-323		0

140	Machine Learning Methodology 2015 , 21-39		1
139	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
138	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
137	Evaluation and Visualization of Radiogenomic Modeling Frameworks for the Prediction of Normal Tissue Toxicities. <i>IFMBE Proceedings</i> , 2015 , 517-520	0.2	1
136	Cherenkov emission dosimetry for electron beam radiotherapy: a Monte Carlo feasibility study of absolute dose prediction. <i>IFMBE Proceedings</i> , 2015 , 828-831	0.2	
135	GMM guided automated Level Set algorithm for PET image segmentation. <i>IFMBE Proceedings</i> , 2015 , 368-371	0.2	1
134	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
133	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
132	Chapter 16: Practical reinforcement learning in dynamic treatment regimes 2015 , 263-296		5
131	Bayesian network ensemble as a multivariate strategy to predict radiation pneumonitis risk. <i>Medical Physics</i> , 2015 , 42, 2421-30	4.4	34
130	Physics: The Use of Magnetic Resonance Imaging for Radiation Therapy is Accelerating in Utility and Novelty. <i>International Journal of Radiation Oncology Biology Physics</i> , 2015 , 93, 953-6	4	1
129	The Role of Big Data in Radiation Oncology. <i>Advances in Bioinformatics and Biomedical Engineering Book Series</i> , 2015 , 164-185	0.4	
128	The role of quantitative PET in predicting cancer treatment outcomes. <i>Clinical and Translational Imaging</i> , 2014 , 2, 305-320	2	48
127	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
126	On the consistency of Monte Carlo track structure DNA damage simulations. <i>Medical Physics</i> , 2014 , 41, 121708	4.4	32
125	Simulation and experimental detection of radiation-induced acoustic waves from a radiotherapy linear accelerator 2014 ,		5
124	Non-invasive whole-body plethysmograph for assessment and prediction of radiation-induced lung injury using simultaneously acquired nitric oxide and lung volume measurements. <i>Physiological Measurement</i> , 2014 , 35, 1737-50	2.9	
123	The Role of Content-Based Image Retrieval in Mammography CAD 2014 , 33-53		3

122	Patterns of Failure after Stereotactic Body Radiation Therapy or Lobar Resection for Clinical Stage I Non-Small-Cell Lung Cancer: Erratum. <i>Journal of Thoracic Oncology</i> , 2013 , 8, 1343	8.9	1
121	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
120	Novel multimodality segmentation using level sets and Jensen-Rényi divergence. <i>Medical Physics</i> , 2013 , 40, 121908	4.4	13
119	Distribution of lung tissue hysteresis during free breathing. <i>Medical Physics</i> , 2013 , 40, 043501	4.4	12
118	WE-C-WAB-02: Joint FDG-PET/MR Imaging for the Early Prediction of Tumor Outcomes. <i>Medical Physics</i> , 2013 , 40, 477-477	4.4	1
117	SU-E-J-109: Registration/Segmentation for Adaptive Radiotherapy Using the Jensen Renyi Divergence. <i>Medical Physics</i> , 2013 , 40, 175-175	4.4	
116	WE-G-500-05: Red Spectral Shift of Cherenkov Emission with Applications in Image-Guided and Intensity-Modulated Radiation Therapy. <i>Medical Physics</i> , 2013 , 40, 504-504	4.4	
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