

Issam El Naqa

List of Publications by Year in descending order

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Version: 2024-02-01

300
papers

18,009
citations

22153

59
h-index

15266

126
g-index

311
all docs

311
docs citations

311
times ranked

17439
citing authors

#	ARTICLE	IF	CITATIONS
1	Longitudinal patient-reported outcomes and survival among early-stage non-small cell lung cancer patients receiving stereotactic body radiotherapy. <i>Radiotherapy and Oncology</i> , 2022, 167, 116-121.	0.6	2
2	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.	1.7	0
3	Overview of Deep Machine Learning Methods. , 2022, , 51-77.		1
4	Advanced Topics in Particle Radiotherapy. <i>IEEE Transactions on Radiation and Plasma Medical Sciences</i> , 2022, 6, 247-251.	3.7	0
5	Predictive Modeling of Survival and Toxicity in Patients With Hepatocellular Carcinoma After Radiotherapy. <i>JCO Clinical Cancer Informatics</i> , 2022, 6, e2100169.	2.1	0
6	Image guidance for FLASH radiotherapy. <i>Medical Physics</i> , 2022, 49, 4109-4122.	3.0	10
7	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.	3.7	6
8	Cluster model incorporating heterogeneous dose distribution of partial parotid irradiation for radiotherapy induced xerostomia prediction with machine learning methods. <i>Acta Oncol³gica</i> , 2022, 61, 842-848.	1.8	2
9	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.	4.7	8
10	Head and Neck Tumor Control Probability: Radiation Doseâ€œVolume 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.	0.8	37
11	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.	0.8	86
12	National Cancer Institute Workshop on Artificial Intelligence in Radiation Oncology: Training the Next Generation. <i>Practical Radiation Oncology</i> , 2021, 11, 74-83.	2.1	16
13	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.	0.8	54
14	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.	0.8	32
15	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.	0.8	23
16	Artificial Intelligence for Response Evaluation With PET/CT. <i>Seminars in Nuclear Medicine</i> , 2021, 51, 157-169.	4.6	12
17	Fundamentals of Radiomics in Nuclear Medicine and Hybrid Imaging. , 2021, , 441-469.		1
18	Exploring State Transition Uncertainty in Variational Reinforcement Learning. , 2021, , .		5

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19	A deep survival interpretable radiomics model of hepatocellular carcinoma patients. <i>Physica Medica</i> , 2021, 82, 295-305.	0.7	27
20	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.	3.0	3
21	Radiomic and radiogenomic modeling for radiotherapy: strategies, pitfalls, and challenges. <i>Journal of Medical Imaging</i> , 2021, 8, 031902.	1.5	8
22	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, , .	0.8	29
23	Requirements and reliability of AI in the medical context. <i>Physica Medica</i> , 2021, 83, 72-78.	0.7	30
24	Quantitative Molecular Positron Emission Tomography Imaging Using Advanced Deep Learning Techniques. <i>Annual Review of Biomedical Engineering</i> , 2021, 23, 249-276.	12.3	30
25	Measuring Tumor Microenvironment pH During Radiotherapy Using a Novel Cerenkov Emission Multispectral Optical Probe Based on Silicon Photomultipliers. <i>Frontiers in Physics</i> , 2021, 9, .	2.1	1
26	A Primer on Dose-Response Data Modeling in Radiation Therapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2021, 110, 11-20.	0.8	17
27	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.	0.8	12
28	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.	0.8	25
29	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.	0.8	40
30	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.	1.2	3
31	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.	0.8	7
32	Artificial Intelligence Applications to Improve the Treatment of Locally Advanced Non-Small Cell Lung Cancers. <i>Cancers</i> , 2021, 13, 2382.	3.7	5
33	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.	0.8	62
34	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.	0.8	31
35	Prospective clinical deployment of machine learning in radiation oncology. <i>Nature Reviews Clinical Oncology</i> , 2021, 18, 605-606.	27.6	13
36	In Reply to Schultheiss. <i>International Journal of Radiation Oncology Biology Physics</i> , 2021, 110, 1541-1543.	0.8	0

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37	AI in medical physics: guidelines for publication. <i>Medical Physics</i> , 2021, 48, 4711-4714.	3.0	24
38	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.	3.0	7
39	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.	3.0	22
40	Dynamic stochastic deep learning approaches for predicting geometric changes in head and neck cancer. <i>Physics in Medicine and Biology</i> , 2021, 66, 225006.	3.0	3
41	Lessons learned in transitioning to AI in the medical imaging of COVID-19. <i>Journal of Medical Imaging</i> , 2021, 8, 010902-10902.	1.5	13
42	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, 3, 20210006.	0.6	0
43	Liver metastasis restrains immunotherapy efficacy via macrophage-mediated T cell elimination. <i>Nature Medicine</i> , 2021, 27, 152-164.	30.7	451
44	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.	2.9	37
45	Quantum deep reinforcement learning for clinical decision support in oncology: application to adaptive radiotherapy. <i>Scientific Reports</i> , 2021, 11, 23545.	3.3	13
46	Machine Learning and Imaging Informatics in Oncology. <i>Oncology</i> , 2020, 98, 344-362.	1.9	40
47	Quantum-inspired algorithm for radiotherapy planning optimization. <i>Medical Physics</i> , 2020, 47, 5-18.	3.0	12
48	Step-size effect on calculated photon and electron beam Cherenkov-to-dose conversion factors. <i>Physica Medica</i> , 2020, 78, 32-37.	0.7	0
49	Introduction to special issue on datasets hosted in The Cancer Imaging Archive (TCIA). <i>Medical Physics</i> , 2020, 47, 6026-6028.	3.0	7
50	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.	0.8	23
51	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.	1.9	8
52	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.	2.1	29
53	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.	0.8	47
54	Machine and deep learning methods for radiomics. <i>Medical Physics</i> , 2020, 47, e185-e202.	3.0	232

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55	The role of machine and deep learning in modern medical physics. <i>Medical Physics</i> , 2020, 47, e125-e126.	3.0	16
56	Introduction to machine and deep learning for medical physicists. <i>Medical Physics</i> , 2020, 47, e127-e147.	3.0	68
57	Oncology Informatics: Status Quo and Outlook. <i>Oncology</i> , 2020, 98, 329-331.	1.9	7
58	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.	2.8	20
59	The Image Biomarker Standardization Initiative: Standardized Quantitative Radiomics for High-Throughput Image-based Phenotyping. <i>Radiology</i> , 2020, 295, 328-338.	7.3	1,869
60	An ionizing radiation acoustic imaging (iRAI) technique for real-time dosimetric measurements for FLASH radiotherapy. <i>Medical Physics</i> , 2020, 47, 5090-5101.	3.0	19
61	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, 1973.	2.4	10
62	Comparing local control and distant metastasis in NSCLC patients between CyberKnife and conventional SBRT. <i>Radiotherapy and Oncology</i> , 2020, 144, 201-208.	0.6	12
63	Artificial Intelligence: reshaping the practice of radiological sciences in the 21st century. <i>British Journal of Radiology</i> , 2020, 93, 20190855.	2.2	63
64	Predicting late radiation-induced xerostomia with parotid gland PET biomarkers and dose metrics. <i>Radiotherapy and Oncology</i> , 2020, 148, 30-37.	0.6	15
65	Tumor response prediction in 90Y radioembolization with PET-based radiomics features and absorbed dose metrics. <i>EJNMMI Physics</i> , 2020, 7, 74.	2.7	12
66	Dual-Modality X-Ray-Induced Radiation Acoustic and Ultrasound Imaging for Real-Time Monitoring of Radiotherapy. <i>BME Frontiers</i> , 2020, 2020, .	4.5	31
67	Volumetric ¹⁸ 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.	2.0	23
68	Balancing accuracy and interpretability of machine learning approaches for radiation treatment outcomes modeling. <i>BJR Open</i> , 2019, 1, 20190021.	0.6	45
69	Silicon Photomultipliers for Deep Tissue Cerenkov Emission Detection During External Beam Radiotherapy. <i>IEEE Photonics Journal</i> , 2019, 11, 1-16.	2.0	4
70	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.	2.9	23
71	NCTN Assessment on Current Applications of Radiomics in Oncology. <i>International Journal of Radiation Oncology Biology Physics</i> , 2019, 104, 302-315.	0.8	44
72	Serum Levels of Hepatocyte Growth Factor and CD40 Ligand Predict Radiation-Induced Liver Injury. <i>Translational Oncology</i> , 2019, 12, 889-894.	3.7	17

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73	Cherenkov emission-based external radiotherapy dosimetry: I. Formalism and feasibility. Medical Physics, 2019, 46, 2370-2382.	3.0	14
74	Combining handcrafted features with latent variables in machine learning for prediction of radiation-induced lung damage. Medical Physics, 2019, 46, 2497-2511.	3.0	38
75	Machine (Deep) Learning Methods for Image Processing and Radiomics. IEEE Transactions on Radiation and Plasma Medical Sciences, 2019, 3, 104-108.	3.7	89
76	Cherenkov emission-based external radiotherapy dosimetry: II. Electron beam quality specification and uncertainties. Medical Physics, 2019, 46, 2383-2393.	3.0	12
77	Machine learning for automated quality assurance in radiotherapy: A proof of principle using EPID data description. Medical Physics, 2019, 46, 1914-1921.	3.0	29
78	Prediction of skin dose in low kV intraoperative radiotherapy using machine learning models trained on results of in vivo dosimetry. Medical Physics, 2019, 46, 1447-1454.	3.0	11
79	Artificial Neural Network With Composite Architectures for Prediction of Local Control in Radiotherapy. IEEE Transactions on Radiation and Plasma Medical Sciences, 2019, 3, 242-249.	3.7	15
80	Development of a Fully Cross-Validated Bayesian Network Approach for Local Control Prediction in Lung Cancer. IEEE Transactions on Radiation and Plasma Medical Sciences, 2019, 3, 232-241.	3.7	42
81	Machine learning for radiomics-based multimodality and multiparametric modeling. Quarterly Journal of Nuclear Medicine and Molecular Imaging, 2019, 63, 323-338.	0.7	33
82	Integrating radiomics into clinical trial design. Quarterly Journal of Nuclear Medicine and Molecular Imaging, 2019, 63, 339-346.	0.7	9
83	Radiomics in nuclear medicine and hybrid imaging: current standings on clinical applicability. Quarterly Journal of Nuclear Medicine and Molecular Imaging, 2019, 63, 321-322.	0.7	0
84	Ionizing radiation-induced acoustics for radiotherapy and diagnostic radiology applications. Medical Physics, 2018, 45, e707-e721.	3.0	58
85	Characterization of X-Ray Acoustic Computed Tomography for Applications in Radiotherapy Dosimetry. IEEE Transactions on Radiation and Plasma Medical Sciences, 2018, 2, 337-344.	3.7	17
86	Modeling of Normal Tissue Complications Using Imaging and Biomarkers After Radiation Therapy for Hepatocellular Carcinoma. International Journal of Radiation Oncology Biology Physics, 2018, 100, 335-343.	0.8	43
87	Radiation-Induced Edema After Single-Fraction or Multifraction Stereotactic Radiosurgery for Meningioma: A Critical Review. International Journal of Radiation Oncology Biology Physics, 2018, 101, 344-357.	0.8	33
88	A prediction model for early death in non-small cell lung cancer patients following curative-intent chemoradiotherapy. Acta Oncologica, 2018, 57, 226-230.	1.8	35
89	On the Fuzziness of Machine Learning, Neural Networks, and Artificial Intelligence in Radiation Oncology. International Journal of Radiation Oncology Biology Physics, 2018, 100, 1-4.	0.8	17
90	Prospects and Challenges for Clinical Decision Support in the Era of Big Data. JCO Clinical Cancer Informatics, 2018, 2, 1-12.	2.1	23

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91	Radiation Therapy Outcomes Models in the Era of Radiomics and Radiogenomics: Uncertainties and Validation. International Journal of Radiation Oncology Biology Physics, 2018, 102, 1070-1073.	0.8	31
92	Editorial: Machine Learning With Radiation Oncology Big Data. Frontiers in Oncology, 2018, 8, 416.	2.8	5
93	Early Changes in Serial CBCT-Measured Parotid Gland Biomarkers Predict Chronic Xerostomia After Head and Neck Radiation Therapy. International Journal of Radiation Oncology Biology Physics, 2018, 102, 1319-1329.	0.8	43
94	Novel Quantitative PET Techniques for Clinical Decision Support in Oncology. Seminars in Nuclear Medicine, 2018, 48, 548-564.	4.6	28
95	Machine learning and modeling: Data, validation, communication challenges. Medical Physics, 2018, 45, e834-e840.	3.0	67
96	Can dose outside the PTV influence the risk of distant metastases in stage I lung cancer patients treated with stereotactic body radiotherapy (SBRT)?. Radiotherapy and Oncology, 2018, 128, 513-519.	0.6	19
97	Investigating the role of functional imaging in the management of soft-tissue sarcomas of the extremities. Physics and Imaging in Radiation Oncology, 2018, 6, 53-60.	2.9	4
98	Fluorescence Endomicroscopy Imaging of Mesenchymal Stem Cells in the Rat Lung. Current Protocols in Stem Cell Biology, 2018, 45, e52.	3.0	2
99	Machine learning algorithms for outcome prediction in (chemo)radiotherapy: An empirical comparison of classifiers. Medical Physics, 2018, 45, 3449-3459.	3.0	214
100	Toward in vivo dosimetry in external beam radiotherapy using x-ray acoustic computed tomography: A soft tissue phantom study validation. Medical Physics, 2018, 45, 4191-4200.	3.0	24
101	Modeling Patient-Specific Dose-Function Response for Enhanced Characterization of Personalized Functional Damage. International Journal of Radiation Oncology Biology Physics, 2018, 102, 1265-1275.	0.8	5
102	The Role of Machine Learning in Knowledge-Based Response-Adapted Radiotherapy. Frontiers in Oncology, 2018, 8, 266.	2.8	30
103	Can radiomics personalise immunotherapy?. Lancet Oncology, The, 2018, 19, 1138-1139.	10.7	25
104	Radiogenomics is the future of treatment response assessment in clinical oncology. Medical Physics, 2018, 45, 4325-4328.	3.0	8
105	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. Medical Physics, 2018, 45, 3980-3995.	3.0	43
106	Radiomics. Advances in Medical Diagnosis, Treatment, and Care, 2018, , 191-217.	0.1	0
107	Big Data Approaches to Improve Stereotactic Body Radiation Therapy (SBRT) Outcomes. Advances in Medical Diagnosis, Treatment, and Care, 2018, , 94-113.	0.1	0
108	Tracking of Mesenchymal Stem Cells with Fluorescence Endomicroscopy Imaging in Radiotherapy-Induced Lung Injury. Scientific Reports, 2017, 7, 40748.	3.3	19

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109	Classification and evaluation strategies of auto-segmentation approaches for PET: Report of AAPM task group No. 211. Medical Physics, 2017, 44, e1-e42.	3.0	162
110	Unraveling biophysical interactions of radiation pneumonitis in non-small-cell lung cancer via Bayesian network analysis. Radiotherapy and Oncology, 2017, 123, 85-92.	0.6	50
111	Computerized Prediction of Treatment Outcomes and Radiomics Analysis. , 2017, , 357-375.		0
112	Toward a standard for the evaluation of PET-CT Auto-CT Segmentation methods following the recommendations of AAPM task group No. 211: Requirements and implementation. Medical Physics, 2017, 44, 4098-4111.	3.0	35
113	Developing and Validating a Survival Prediction Model for NSCLC Patients Through Distributed Learning Across 3 Countries. International Journal of Radiation Oncology Biology Physics, 2017, 99, 344-352.	0.8	102
114	Beyond imaging: The promise of radiomics. Physica Medica, 2017, 38, 122-139.	0.7	336
115	Experimental evaluation of x-ray acoustic computed tomography for radiotherapy dosimetry applications. Medical Physics, 2017, 44, 608-617.	3.0	34
116	Deep reinforcement learning for automated radiation adaptation in lung cancer. Medical Physics, 2017, 44, 6690-6705.	3.0	161
117	A comparative analysis of longitudinal computed tomography and histopathology for evaluating the potential of mesenchymal stem cells in mitigating radiation-induced pulmonary fibrosis. Scientific Reports, 2017, 7, 9056.	3.3	14
118	Enhancement of multimodality texture-based prediction models via optimization of PET and MR image acquisition protocols: a proof of concept. Physics in Medicine and Biology, 2017, 62, 8536-8565.	3.0	23
119	Radiation Sensitivity of the Liver: Models and Clinical Data. , 2017, , 39-47.		2
120	Power-law stochastic neighbor embedding. , 2017, , .		17
121	Radiogenomics and radiotherapy response modeling. Physics in Medicine and Biology, 2017, 62, R179-R206.	3.0	43
122	Image Processing and Analysis of PET and Hybrid PET Imaging. , 2017, , 285-301.		0
123	Tumor control probability modeling for stereotactic body radiation therapy of early-stage lung cancer using multiple bio-physical models. Radiotherapy and Oncology, 2017, 122, 286-294.	0.6	44
124	Image-Guided Fluorescence Endomicroscopy: From Macro- to Micro-Imaging of Radiation-Induced Pulmonary Fibrosis. Scientific Reports, 2017, 7, 17829.	3.3	7
125	Radiomics strategies for risk assessment of tumour failure in head-and-neck cancer. Scientific Reports, 2017, 7, 10117.	3.3	391
126	Radiomics in precision medicine for lung cancer. Translational Lung Cancer Research, 2017, 6, 635-647.	2.8	26

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127	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.	2.8	32
128	Big Data Analytics for Prostate Radiotherapy. <i>Frontiers in Oncology</i> , 2016, 6, 149.	2.8	34
129	Mesenchymal Stem Cells Adopt Lung Cell Phenotype in Normal and Radiation-induced Lung Injury Conditions. <i>Applied Immunohistochemistry and Molecular Morphology</i> , 2016, 24, 283-295.	1.2	9
130	PET/MRI and prostate cancer. <i>Clinical and Translational Imaging</i> , 2016, 4, 473-485.	2.1	13
131	A 4D biomechanical lung phantom for joint segmentation/registration evaluation. <i>Physics in Medicine and Biology</i> , 2016, 61, 7012-7030.	3.0	10
132	Proton and light ion RBE for the induction of direct DNA double strand breaks. <i>Medical Physics</i> , 2016, 43, 2131-2140.	3.0	20
133	Outcome modeling techniques for prostate cancer radiotherapy: Data, models, and validation. <i>Physica Medica</i> , 2016, 32, 512-520.	0.7	15
134	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.	0.8	63
135	Perspectives on making big data analytics work for oncology. <i>Methods</i> , 2016, 111, 32-44.	3.8	28
136	The big data effort in radiation oncology: Data mining or data farming?. <i>Advances in Radiation Oncology</i> , 2016, 1, 260-271.	1.2	58
137	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.	0.8	30
138	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.	0.8	21
139	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.	3.0	22
140	Pretreatment ¹⁸ F-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, 842-848.	5.0	75
141	Sci-Thur AM: YIS - 02: Imaging dose distributions through the detection of radiation-induced acoustic waves. <i>Medical Physics</i> , 2016, 43, 4928-4928.	3.0	1
142	Sci-Thur AM: YIS - 10: Modeling Metastasis after Lung SBRT Using Bayesian Network Averaging. <i>Medical Physics</i> , 2016, 43, 4930-4930.	3.0	1
143	The Role of Big Data in Radiation Oncology. , 2016, , 1519-1542.		0
144	Sci-Thur AM: YIS - 04: 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.	3.0	0

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145	Chapter 16: Practical reinforcement learning in dynamic treatment regimes. , 2015, , 263-296.		5
146	Bayesian network ensemble as a multivariate strategy to predict radiation pneumonitis risk. Medical Physics, 2015, 42, 2421-2430.	3.0	43
147	Physics: The Use of Magnetic Resonance Imaging for Radiation Therapy is Accelerating in Utility and Novelty. International Journal of Radiation Oncology Biology Physics, 2015, 93, 953-956.	0.8	1
148	Detection and Prediction of Radiotherapy Errors. , 2015, , 237-241.		4
149	Bioinformatics of Treatment Response. , 2015, , 263-276.		0
150	Modeling of Tumor Control Probability (TCP). , 2015, , 311-323.		2
151	Machine Learning Methodology. , 2015, , 21-39.		4
152	Contrasting analytical and data-driven frameworks for radiogenomic modeling of normal tissue toxicities in prostate cancer. Radiotherapy and Oncology, 2015, 115, 107-113.	0.6	24
153	Special section: Selected papers from the Fifth International Workshop on Monte Carlo Techniques in Medical Physics. Physics in Medicine and Biology, 2015, 60, 4947-4950.	3.0	0
154	A radiomics model from joint FDG-PET and MRI texture features for the prediction of lung metastases in soft-tissue sarcomas of the extremities. Physics in Medicine and Biology, 2015, 60, 5471-5496.	3.0	698
155	Variability in clinical target volume delineation for intensity modulated radiation therapy in 3 challenging cervix cancer scenarios. Practical Radiation Oncology, 2015, 5, e557-e565.	2.1	11
156	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. Journal of Nuclear Medicine, 2015, 56, 38-44.	5.0	374
157	The Role of Big Data in Radiation Oncology. Advances in Bioinformatics and Biomedical Engineering Book Series, 2015, , 164-185.	0.4	0
158	Biomedical informatics and panomics for evidence-based radiation therapy. Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery, 2014, 4, 327-340.	6.8	15
159	On the consistency of Monte Carlo track structure DNA damage simulations. Medical Physics, 2014, 41, 121708.	3.0	38
160	Simulation and experimental detection of radiation-induced acoustic waves from a radiotherapy linear accelerator. , 2014, , .		7
161	Non-invasive whole-body plethysmograph for assessment and prediction of radiation-induced lung injury using simultaneously acquired nitric oxide and lung volume measurements. Physiological Measurement, 2014, 35, 1737-1750.	2.1	0
162	The role of quantitative PET in predicting cancer treatment outcomes. Clinical and Translational Imaging, 2014, 2, 305-320.	2.1	54

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163	The Role of Content-Based Image Retrieval in Mammography CAD. , 2014, , 33-53.		3
164	Patterns of Failure after Stereotactic Body Radiation Therapy or Lobar Resection for Clinical Stage I Non-Small-Cell Lung Cancer. Journal of Thoracic Oncology, 2013, 8, 192-201.	1.1	112
165	Novel multimodality segmentation using level sets and Jensen-Rényi divergence. Medical Physics, 2013, 40, 121908.	3.0	18
166	Distribution of lung tissue hysteresis during free breathing. Medical Physics, 2013, 40, 043501.	3.0	13
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