

Randall K Ten Haken

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7818082/publications.pdf>

Version: 2024-02-01

247
papers

21,245
citations

10956

71
h-index

10424

139
g-index

249
all docs

249
docs citations

249
times ranked

11889
citing authors

#	ARTICLE	IF	CITATIONS
1	Use of Normal Tissue Complication Probability Models in the Clinic. International Journal of Radiation Oncology Biology Physics, 2010, 76, S10-S19.	0.4	1,376
2	Quantitative Analyses of Normal Tissue Effects in the Clinic (QUANTEC): An Introduction to the Scientific Issues. International Journal of Radiation Oncology Biology Physics, 2010, 76, S3-S9.	0.4	879
3	Dose, volume, and function relationships in parotid salivary glands following conformal and intensity-modulated irradiation of head and neck cancer. International Journal of Radiation Oncology Biology Physics, 1999, 45, 577-587.	0.4	840
4	Analysis of radiation-induced liver disease using the Lyman NTCP model. International Journal of Radiation Oncology Biology Physics, 2002, 53, 810-821.	0.4	688
5	Radiation pneumonitis as a function of mean lung dose: an analysis of pooled data of 540 patients. International Journal of Radiation Oncology Biology Physics, 1998, 42, 1-9.	0.4	664
6	Radiation-Associated Liver Injury. International Journal of Radiation Oncology Biology Physics, 2010, 76, S94-S100.	0.4	592
7	Radiation Dose-Volume Effects in the Stomach and Small Bowel. International Journal of Radiation Oncology Biology Physics, 2010, 76, S101-S107.	0.4	457
8	High-dose radiation improved local tumor control and overall survival in patients with inoperable/unresectable non-small-cell lung cancer: Long-term results of a radiation dose escalation study. International Journal of Radiation Oncology Biology Physics, 2005, 63, 324-333.	0.4	450
9	A method for incorporating organ motion due to breathing into 3D dose calculations. Medical Physics, 1999, 26, 715-720.	1.6	442
10	Comparing different NTCP models that predict the incidence of radiation pneumonitis. International Journal of Radiation Oncology Biology Physics, 2003, 55, 724-735.	0.4	423
11	Escalated Focal Liver Radiation and Concurrent Hepatic Artery Fluorodeoxyuridine for Unresectable Intrahepatic Malignancies. Journal of Clinical Oncology, 2000, 18, 2210-2218.	0.8	362
12	Uncertainties in CT-based radiation therapy treatment planning associated with patient breathing. International Journal of Radiation Oncology Biology Physics, 1996, 36, 167-174.	0.4	325
13	Measurement of prostate movement over the course of routine radiotherapy using implanted markers. International Journal of Radiation Oncology Biology Physics, 1995, 31, 113-118.	0.4	323
14	Phase II Trial of High-Dose Conformal Radiation Therapy With Concurrent Hepatic Artery Floxuridine for Unresectable Intrahepatic Malignancies. Journal of Clinical Oncology, 2005, 23, 8739-8747.	0.8	308
15	The use of 3-D dose volume analysis to predict radiation hepatitis. International Journal of Radiation Oncology Biology Physics, 1992, 23, 781-788.	0.4	306
16	Dose Escalation in Non-Small-Cell Lung Cancer Using Three-Dimensional Conformal Radiation Therapy: Update of a Phase I Trial. Journal of Clinical Oncology, 2001, 19, 127-136.	0.8	302
17	Final toxicity results of a radiation-dose escalation study in patients with non-small-cell lung cancer (NSCLC): Predictors for radiation pneumonitis and fibrosis. International Journal of Radiation Oncology Biology Physics, 2006, 65, 1075-1086.	0.4	294
18	Cardiac Events After Radiation Therapy: Combined Analysis of Prospective Multicenter Trials for Locally Advanced Non-Small-Cell Lung Cancer. Journal of Clinical Oncology, 2017, 35, 1395-1402.	0.8	283

#	ARTICLE	IF	CITATIONS
19	The reproducibility of organ position using active breathing control (ABC) during liver radiotherapy. International Journal of Radiation Oncology Biology Physics, 2001, 51, 1410-1421.	0.4	275
20	Dose-volume histogram and 3-D treatment planning evaluation of patients with pneumonitis. International Journal of Radiation Oncology Biology Physics, 1994, 28, 575-581.	0.4	260
21	Radiation-Associated Kidney Injury. International Journal of Radiation Oncology Biology Physics, 2010, 76, S108-S115.	0.4	245
22	Partial Volume Tolerance of the Liver to Radiation. Seminars in Radiation Oncology, 2005, 15, 279-283.	1.0	244
23	Chemo-IMRT of Oropharyngeal Cancer Aiming to Reduce Dysphagia: Swallowing Organs Late Complication Probabilities and Dosimetric Correlates. International Journal of Radiation Oncology Biology Physics, 2011, 81, e93-e99.	0.4	216
24	Improvement of CT-based treatment-planning models of abdominal targets using static exhale imaging. International Journal of Radiation Oncology Biology Physics, 1998, 41, 939-943.	0.4	215
25	The impact of dose on parotid salivary recovery in head and neck cancer patients treated with radiation therapy. International Journal of Radiation Oncology Biology Physics, 2007, 67, 660-669.	0.4	189
26	Parotid gland sparing in patients undergoing bilateral head and neck irradiation: Techniques and early results. International Journal of Radiation Oncology Biology Physics, 1996, 36, 469-480.	0.4	188
27	Comprehensive irradiation of head and neck cancer using conformal multisegmental fields: assessment of target coverage and noninvolved tissue sparing. International Journal of Radiation Oncology Biology Physics, 1998, 41, 559-568.	0.4	182
28	Dose escalation for non-small cell lung cancer using conformal radiation therapy. International Journal of Radiation Oncology Biology Physics, 1997, 37, 1079-1085.	0.4	179
29	Daily prostate targeting using implanted radiopaque markers. International Journal of Radiation Oncology Biology Physics, 2002, 52, 699-703.	0.4	178
30	Effect of Midtreatment PET/CT-Adapted Radiation Therapy With Concurrent Chemotherapy in Patients With Locally Advanced Non-Small-Cell Lung Cancer. JAMA Oncology, 2017, 3, 1358.	3.4	177
31	Prospective study of inner ear radiation dose and hearing loss in head-and-neck cancer patients. International Journal of Radiation Oncology Biology Physics, 2005, 61, 1393-1402.	0.4	176
32	Salivary Gland Sparing and Improved Target Irradiation by Conformal and Intensity Modulated Irradiation of Head and Neck Cancer. World Journal of Surgery, 2003, 27, 832-837.	0.8	173
33	Automated localization of the prostate at the time of treatment using implanted radiopaque markers: Technical feasibility. International Journal of Radiation Oncology Biology Physics, 1995, 33, 1281-1286.	0.4	169
34	Guest Editor's Introduction to QUANTEC: A Users Guide. International Journal of Radiation Oncology Biology Physics, 2010, 76, S1-S2.	0.4	166
35	Deep reinforcement learning for automated radiation adaptation in lung cancer. Medical Physics, 2017, 44, 6690-6705.	1.6	161
36	Partial irradiation of the liver. Seminars in Radiation Oncology, 2001, 11, 240-246.	1.0	158

#	ARTICLE	IF	CITATIONS
37	Non-Small Cell Lung Cancer Therapy-Related Pulmonary Toxicity: An Update on Radiation Pneumonitis and Fibrosis. <i>Seminars in Oncology</i> , 2005, 32, 42-54.	0.8	158
38	Parotid Gland Function After Radiotherapy: The Combined Michigan and Utrecht Experience. <i>International Journal of Radiation Oncology Biology Physics</i> , 2010, 78, 449-453.	0.4	155
39	A Pilot Study of [¹⁸ F]Fluorodeoxyglucose Positron Emission Tomography Scans During and After Radiation-Based Therapy in Patients With Non-Small-Cell Lung Cancer. <i>Journal of Clinical Oncology</i> , 2007, 25, 3116-3123.	0.8	154
40	Use of Magnetic Resonance Imaging to Assess Blood-Brain/Blood-Glioma Barrier Opening During Conformal Radiotherapy. <i>Journal of Clinical Oncology</i> , 2005, 23, 4127-4136.	0.8	149
41	Dose escalation for stage C (T3) prostate cancer: minimal rectal toxicity observed using conformal therapy. <i>Radiotherapy and Oncology</i> , 1992, 23, 53-54.	0.3	146
42	Individualized Adaptive Stereotactic Body Radiotherapy for Liver Tumors in Patients at High Risk for Liver Damage. <i>JAMA Oncology</i> , 2018, 4, 40.	3.4	140
43	Using Fluorodeoxyglucose Positron Emission Tomography to Assess Tumor Volume During Radiotherapy for Non-Small-Cell Lung Cancer and Its Potential Impact on Adaptive Dose Escalation and Normal Tissue Sparing. <i>International Journal of Radiation Oncology Biology Physics</i> , 2009, 73, 1228-1234.	0.4	137
44	Association of ¹¹ C-Methionine PET Uptake With Site of Failure After Concurrent Temozolomide and Radiation for Primary Glioblastoma Multiforme. <i>International Journal of Radiation Oncology Biology Physics</i> , 2009, 73, 479-485.	0.4	135
45	CT-based definition of thoracic lymph node stations: An atlas from the University of Michigan. <i>International Journal of Radiation Oncology Biology Physics</i> , 2005, 63, 170-178.	0.4	134
46	Local Control After Stereotactic Body Radiation Therapy for Liver Tumors. <i>International Journal of Radiation Oncology Biology Physics</i> , 2021, 110, 188-195.	0.4	131
47	A method for incorporating organ motion due to breathing into 3D dose calculations in the liver: Sensitivity to variations in motion. <i>Medical Physics</i> , 2003, 30, 2643-2649.	1.6	129
48	Clinical investigation survival prediction in high-grade gliomas by MRI perfusion before and during early stage of RT. <i>International Journal of Radiation Oncology Biology Physics</i> , 2006, 64, 876-885.	0.4	128
49	Three dimensional conformal radiotherapy for the treatment of prostate cancer: Low risk of chronic rectal morbidity observed in a large series of patients. <i>International Journal of Radiation Oncology Biology Physics</i> , 1995, 33, 797-801.	0.4	127
50	Inclusion of organ deformation in dose calculations. <i>Medical Physics</i> , 2003, 30, 290-295.	1.6	126
51	An application of dose volume histograms to the treatment of intrahepatic malignancies with radiation therapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 1990, 19, 1041-1047.	0.4	116
52	A quantitative assessment of the addition of MRI to CT-based, 3-D treatment planning of brain tumors. <i>Radiotherapy and Oncology</i> , 1992, 25, 121-133.	0.3	116
53	Concurrent Temozolomide and Dose-Escalated Intensity-Modulated Radiation Therapy in Newly Diagnosed Glioblastoma. <i>Clinical Cancer Research</i> , 2012, 18, 273-279.	3.2	115
54	Determination of ventilatory liver movement via radiographic evaluation of diaphragm position. <i>International Journal of Radiation Oncology Biology Physics</i> , 2001, 51, 267-270.	0.4	113

#	ARTICLE	IF	CITATIONS
55	Fraction Size and Dose Parameters Related to the Incidence of Pericardial Effusions. <i>International Journal of Radiation Oncology Biology Physics</i> , 1998, 40, 155-161.	0.4	106
56	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.	0.4	102
57	Normal tissue complication probability modeling for acute esophagitis in patients treated with conformal radiation therapy for non-small cell lung cancer. <i>Radiotherapy and Oncology</i> , 2005, 77, 176-181.	0.3	101
58	Improving Normal Tissue Complication Probability Models: The Need to Adopt a "Data-Pooling" Culture. <i>International Journal of Radiation Oncology Biology Physics</i> , 2010, 76, S151-S154.	0.4	101
59	Use of Veff and iso-NTCP in the implementation of dose escalation protocols. <i>International Journal of Radiation Oncology Biology Physics</i> , 1993, 27, 689-695.	0.4	99
60	Dose reconstruction in deforming lung anatomy: Dose grid size effects and clinical implications. <i>Medical Physics</i> , 2005, 32, 2487-2495.	1.6	95
61	Daily targeting of intrahepatic tumors for radiotherapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2002, 52, 266-271.	0.4	92
62	Treatment of cancers involving the liver and porta hepatis with external beam irradiation and intraarterial hepatic fluorodeoxyuridine. <i>International Journal of Radiation Oncology Biology Physics</i> , 1991, 20, 555-561.	0.4	90
63	Combining Physical and Biologic Parameters to Predict Radiation-Induced Lung Toxicity in Patients With Non-Small-Cell Lung Cancer Treated With Definitive Radiation Therapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2012, 84, e217-e222.	0.4	88
64	Potential benefits of eliminating planning target volume expansions for patient breathing in the treatment of liver tumors. <i>International Journal of Radiation Oncology Biology Physics</i> , 1997, 38, 613-617.	0.4	87
65	Results of high-dose thoracic irradiation incorporating beam's eye view display in non-small cell lung cancer: A retrospective multivariate analysis. <i>International Journal of Radiation Oncology Biology Physics</i> , 1993, 27, 273-284.	0.4	86
66	Prostate position late in the course of external beam therapy: patterns and predictors. <i>International Journal of Radiation Oncology Biology Physics</i> , 2000, 47, 655-660.	0.4	85
67	Partial irradiation of the parotid gland. <i>Seminars in Radiation Oncology</i> , 2001, 11, 234-239.	1.0	78
68	Long-term results of high-dose conformal radiotherapy for patients with medically inoperable T1-3N0 non-small-cell lung cancer: Is low incidence of regional failure due to incidental nodal irradiation?. <i>International Journal of Radiation Oncology Biology Physics</i> , 2006, 64, 120-126.	0.4	78
69	A Comparison of Dose-Response Models for the Parotid Gland in a Large Group of Head-and-Neck Cancer Patients. <i>International Journal of Radiation Oncology Biology Physics</i> , 2010, 76, 1259-1265.	0.4	77
70	Reporting and analyzing statistical uncertainties in Monte Carlo-based treatment planning. <i>International Journal of Radiation Oncology Biology Physics</i> , 2006, 65, 1249-1259.	0.4	76
71	Verification data for electron beam dose algorithms. <i>Medical Physics</i> , 1992, 19, 623-636.	1.6	73
72	Results following treatment to doses of 92.4 or 102.9 Gy on a phase I dose escalation study for non-small cell lung cancer. <i>Lung Cancer</i> , 2004, 44, 79-88.	0.9	71

#	ARTICLE	IF	CITATIONS
73	Introduction to machine and deep learning for medical physicists. <i>Medical Physics</i> , 2020, 47, e127-e147.	1.6	68
74	Machine learning and modeling: Data, validation, communication challenges. <i>Medical Physics</i> , 2018, 45, e834-e840.	1.6	67
75	Radiation Dose-Volume Effects for Liver SBRT. <i>International Journal of Radiation Oncology Biology Physics</i> , 2021, 110, 196-205.	0.4	67
76	How extensive of a 4D dataset is needed to estimate cumulative dose distribution plan evaluation	1.6	64
77	Alterations in normal liver doses due to organ motion. <i>International Journal of Radiation Oncology Biology Physics</i> , 2003, 57, 1472-1479.	0.4	63
78	Artificial Intelligence: reshaping the practice of radiological sciences in the 21st century. <i>British Journal of Radiology</i> , 2020, 93, 20190855.	1.0	63
79	A fluence convolution method to account for respiratory motion in three-dimensional dose calculations of the liver: A Monte Carlo study. <i>Medical Physics</i> , 2003, 30, 1776-1780.	1.6	62
80	Time to metabolic atrophy after permanent prostate seed implantation based on magnetic resonance spectroscopic imaging. <i>International Journal of Radiation Oncology Biology Physics</i> , 2004, 59, 665-673.	0.4	62
81	Retrospective analysis of prostate cancer patients with implanted gold markers using off-line and adaptive therapy protocols. <i>International Journal of Radiation Oncology Biology Physics</i> , 2005, 63, 123-133.	0.4	61
82	Benefit of using biologic parameters (EUD and NTCP) in IMRT optimization for treatment of intrahepatic tumors. <i>International Journal of Radiation Oncology Biology Physics</i> , 2005, 62, 571-578.	0.4	60
83	Prediction of Liver Function by Using Magnetic Resonance-based Portal Venous Perfusion Imaging. <i>International Journal of Radiation Oncology Biology Physics</i> , 2013, 85, 258-263.	0.4	60
84	Three-dimensional motion analysis of an improved head immobilization system for simulation, CT, MRI, and PET imaging. <i>Radiotherapy and Oncology</i> , 1991, 20, 224-228.	0.3	59
85	Advances in Radiation Oncology. <i>Annual Review of Medicine</i> , 2006, 57, 19-31.	5.0	58
86	The big data effort in radiation oncology: Data mining or data farming?. <i>Advances in Radiation Oncology</i> , 2016, 1, 260-271.	0.6	58
87	A feasibility study of mutual information based setup error estimation for radiotherapy. <i>Medical Physics</i> , 2001, 28, 2507-2517.	1.6	57
88	Use of principal component analysis to evaluate the partial organ tolerance of normal tissues to radiation. <i>International Journal of Radiation Oncology Biology Physics</i> , 2005, 62, 829-837.	0.4	57
89	Methodological issues in radiation dose-volume outcome analyses: Summary of a joint AAPM/NIH workshop. <i>Medical Physics</i> , 2002, 29, 2109-2127.	1.6	56
90	Physical Models and Simpler Dosimetric Descriptors of Radiation Late Toxicity. <i>Seminars in Radiation Oncology</i> , 2007, 17, 108-120.	1.0	52

#	ARTICLE	IF	CITATIONS
91	Poor Baseline Pulmonary Function May Not Increase the Risk of Radiation-Induced Lung Toxicity. International Journal of Radiation Oncology Biology Physics, 2013, 85, 798-804.	0.4	50
92	Unraveling biophysical interactions of radiation pneumonitis in non-small-cell lung cancer via Bayesian network analysis. Radiotherapy and Oncology, 2017, 123, 85-92.	0.3	50
93	Automated determination of patient setup errors in radiation therapy using spherical radio-opaque markers. Medical Physics, 1993, 20, 1145-1152.	1.6	49
94	Quantization of setup uncertainties in 3-D dose calculations. Medical Physics, 1999, 26, 2397-2402.	1.6	49
95	Plasma Levels of IL-8 and TGF- β 1 Predict Radiation-Induced Lung Toxicity in Non-Small Cell Lung Cancer: A Validation Study. International Journal of Radiation Oncology Biology Physics, 2017, 98, 615-621.	0.4	48
96	Liver Function After Irradiation Based on Computed Tomographic Portal Vein Perfusion Imaging. International Journal of Radiation Oncology Biology Physics, 2008, 70, 154-160.	0.4	47
97	Clinical experience with three-dimensional treatment planning. Seminars in Radiation Oncology, 1992, 2, 257-266.	1.0	46
98	Potential for dose-escalation and reduction of risk in pancreatic cancer using IMRT optimization with lexicographic ordering and gEUD-based cost functions. Medical Physics, 2007, 34, 521-529.	1.6	46
99	Changes in Global Function and Regional Ventilation and Perfusion on SPECT During the Course of Radiotherapy in Patients With Non-Small-Cell Lung Cancer. International Journal of Radiation Oncology Biology Physics, 2012, 82, e631-e638.	0.4	46
100	Balancing accuracy and interpretability of machine learning approaches for radiation treatment outcomes modeling. BJR Open, 2019, 1, 20190021.	0.4	45
101	A comparison of ¹³¹ I-labeled monoclonal antibody 17-1A treatment to external beam irradiation on the growth of LS174T human colon carcinoma xenografts. International Journal of Radiation Oncology Biology Physics, 1990, 18, 1033-1041.	0.4	44
102	Esophagus sparing with IMRT in lung tumor irradiation: An EUD-based optimization technique. International Journal of Radiation Oncology Biology Physics, 2005, 63, 179-187.	0.4	43
103	Radiogenomics and radiotherapy response modeling. Physics in Medicine and Biology, 2017, 62, R179-R206.	1.6	43
104	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.	0.4	43
105	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.	0.4	43
106	A multiobjective Bayesian networks approach for joint prediction of tumor local control and radiation pneumonitis in nonsmallâ€œcell lung cancer (<sc>NSCLC</sc>) for responseâ€œadapted radiotherapy. Medical Physics, 2018, 45, 3980-3995.	1.6	43
107	Effect of Normal Lung Definition on Lung Dosimetry and Lung Toxicity Prediction in Radiation Therapy Treatment Planning. International Journal of Radiation Oncology Biology Physics, 2013, 86, 956-963.	0.4	42
108	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.	2.7	42

#	ARTICLE	IF	CITATIONS
109	Technical considerations in the use of 3-D beam arrangements in the abdomen. <i>Radiotherapy and Oncology</i> , 1991, 22, 19-28.	0.3	41
110	Flattening-filter-based empirical methods to parametrize the head scatter factor. <i>Medical Physics</i> , 1996, 23, 343-352.	1.6	41
111	Machine Learning and Imaging Informatics in Oncology. <i>Oncology</i> , 2020, 98, 344-362.	0.9	40
112	Expanding the use and effectiveness of dose-volume histograms for 3-D treatment planning I: Integration of 3-D dose-display. <i>International Journal of Radiation Oncology Biology Physics</i> , 1994, 29, 1125-1131.	0.4	39
113	Defining target volumes for non-small cell lung carcinoma. <i>Seminars in Radiation Oncology</i> , 2004, 14, 308-314.	1.0	39
114	Impact of Fraction Size on Lung Radiation Toxicity: Hypofractionation may be Beneficial in Dose Escalation of Radiotherapy for Lung Cancers. <i>International Journal of Radiation Oncology Biology Physics</i> , 2010, 76, 782-788.	0.4	39
115	An analysis of knowledge-based planning for stereotactic body radiation therapy of the spine. <i>Practical Radiation Oncology</i> , 2017, 7, e355-e360.	1.1	38
116	Combining handcrafted features with latent variables in machine learning for prediction of radiation-induced lung damage. <i>Medical Physics</i> , 2019, 46, 2497-2511.	1.6	38
117	Three-dimensional conformal radiation may deliver considerable dose of incidental nodal irradiation in patients with early stage node-negative non-small cell lung cancer when the tumor is large and centrally located. <i>Radiotherapy and Oncology</i> , 2007, 82, 153-159.	0.3	37
118	Semiquantification and Classification of Local Pulmonary Function by V/Q Single Photon Emission Computed Tomography in Patients with Non-small Cell Lung Cancer: Potential Indication for Radiotherapy Planning. <i>Journal of Thoracic Oncology</i> , 2011, 6, 71-78.	0.5	37
119	Response of pancreatic cancer to local irradiation with high-energy neutrons. <i>Cancer</i> , 1985, 56, 1235-1241.	2.0	36
120	Measurement of patient setup errors using port films and a computer-aided graphical alignment tool. <i>Medical Dosimetry</i> , 1996, 21, 97-104.	0.4	36
121	Evaluating changes in tumor volume using magnetic resonance imaging during the course of radiotherapy treatment of high-grade gliomas: Implications for conformal dose-escalation studies. <i>International Journal of Radiation Oncology Biology Physics</i> , 2005, 62, 328-332.	0.4	36
122	Estimating functional liver reserve following hepatic irradiation: Adaptive normal tissue response models. <i>Radiotherapy and Oncology</i> , 2014, 111, 418-423.	0.3	36
123	Big Data in Designing Clinical Trials: Opportunities and Challenges. <i>Frontiers in Oncology</i> , 2017, 7, 187.	1.3	36
124	Response of sarcomas of bone and of soft tissue to neutron beam therapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 1984, 10, 821-824.	0.4	35
125	Clinical evaluation of neutron beam therapy. Current results and prospects, 1983. <i>Cancer</i> , 1985, 55, 10-17.	2.0	35
126	Measurement of backscatter to the monitor chamber of medical accelerators using target charge. <i>Medical Physics</i> , 1998, 25, 334-338.	1.6	35

#	ARTICLE	IF	CITATIONS
127	A tilt and roll device for automated correction of rotational setup errors. <i>Medical Physics</i> , 1998, 25, 1739-1740.	1.6	35
128	Synchronized dynamic dose reconstruction. <i>Medical Physics</i> , 2006, 34, 91-102.	1.6	34
129	The prediction of radiation-induced liver dysfunction using a local dose and regional venous perfusion model. <i>Medical Physics</i> , 2007, 34, 604-612.	1.6	34
130	Imaging for Assessment of Radiation-Induced Normal Tissue Effects. <i>International Journal of Radiation Oncology Biology Physics</i> , 2010, 76, S140-S144.	0.4	34
131	Three-dimensional tumor dosimetry for radioimmunotherapy using serial autoradiography. <i>International Journal of Radiation Oncology Biology Physics</i> , 1992, 24, 329-334.	0.4	32
132	Functional and Molecular Image Guidance in Radiotherapy Treatment Planning Optimization. <i>Seminars in Radiation Oncology</i> , 2011, 21, 111-118.	1.0	32
133	Predictive Models for Regional Hepatic Function Based on ^{99m} Tc-IDA SPECT and Local Radiation Dose for Physiologic Adaptive Radiation Therapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2013, 86, 1000-1006.	0.4	31
134	Radiation Therapy Outcomes Models in the Era of Radiomics and Radiogenomics: Uncertainties and Validation. <i>International Journal of Radiation Oncology Biology Physics</i> , 2018, 102, 1070-1073.	0.4	31
135	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.	0.4	31
136	Comparison of ¹³¹ I- and ⁹⁰ Y-labeled monoclonal antibody 17-1A for treatment of human colon cancer xenografts. <i>International Journal of Radiation Oncology Biology Physics</i> , 1993, 25, 629-638.	0.4	30
137	An application of Bayesian statistical methods to adaptive radiotherapy. <i>Physics in Medicine and Biology</i> , 2005, 50, 3849-3858.	1.6	30
138	Metabolic tumor volume on PET reduced more than gross tumor volume on CT during radiotherapy in patients with non-small cell lung cancer treated with 3DCRT or SBRT. <i>Journal of Radiation Oncology</i> , 2013, 2, 191-202.	0.7	30
139	Changes in Functional Lung Regions During the Course of Radiation Therapy and Their Potential Impact on Lung Dosimetry for Non-Small Cell Lung Cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2014, 89, 145-151.	0.4	30
140	The Role of Machine Learning in Knowledge-Based Response-Adapted Radiotherapy. <i>Frontiers in Oncology</i> , 2018, 8, 266.	1.3	30
141	Determination of rotations in three dimensions using two-dimensional portal image registration. <i>Medical Physics</i> , 1998, 25, 703-708.	1.6	29
142	Multiple fields may offer better esophagus sparing without increased probability of lung toxicity in optimized IMRT of lung tumors. <i>International Journal of Radiation Oncology Biology Physics</i> , 2006, 65, 255-265.	0.4	28
143	Lhermitte Sign After Chemo-IMRT of Head-and-Neck Cancer: Incidence, Doses, and Potential Mechanisms. <i>International Journal of Radiation Oncology Biology Physics</i> , 2012, 83, 1528-1533.	0.4	28
144	Serum MicroRNA Signature Predicts Response to High-Dose Radiation Therapy in Locally Advanced Non-Small Cell Lung Cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2018, 100, 107-114.	0.4	28

#	ARTICLE	IF	CITATIONS
145	Fast neutrons in the treatment of salivary gland tumors. International Journal of Radiation Oncology Biology Physics, 1981, 7, 1667-1671.	0.4	27
146	Photon activation-15 O decay studies of tumor blood flow. Medical Physics, 1981, 8, 324-336.	1.6	27
147	A Customized Non-Axial External Beam Technique for Treatment of Prostate Carcinomas. Medical Dosimetry, 1992, 17, 123-127.	0.4	27
148	A deep survival interpretable radiomics model of hepatocellular carcinoma patients. Physica Medica, 2021, 82, 295-305.	0.4	27
149	Accounting for center-of-mass target motion using convolution methods in Monte Carlo-based dose calculations of the lung. Medical Physics, 2004, 31, 925-932.	1.6	26
150	Evaluating the influence of setup uncertainties on treatment planning for focal liver tumors. International Journal of Radiation Oncology Biology Physics, 2005, 63, 610-614.	0.4	26
151	Local and Global Function Model of the Liver. International Journal of Radiation Oncology Biology Physics, 2016, 94, 181-188.	0.4	26
152	Can radiomics personalise immunotherapy?. Lancet Oncology, The, 2018, 19, 1138-1139.	5.1	25
153	Circulating microRNAs as biomarkers of radiation-induced cardiac toxicity in non-small-cell lung cancer. Journal of Cancer Research and Clinical Oncology, 2019, 145, 1635-1643.	1.2	24
154	Practical methods of electron depth-dose measurement compared to use of the NACP design chamber in water. Medical Physics, 1987, 14, 1060-1066.	1.6	23
155	Prospects and Challenges for Clinical Decision Support in the Era of Big Data. JCO Clinical Cancer Informatics, 2018, 2, 1-12.	1.0	23
156	A mathematical model for correcting patient setup errors using a tilt and roll device. Medical Physics, 1999, 26, 2586-2588.	1.6	22
157	FusionArc optimization: A hybrid volumetric modulated arc therapy (VMAT) and intensity modulated radiation therapy (IMRT) planning strategy. Medical Physics, 2013, 40, 071713.	1.6	22
158	Pulmonary Artery Invasion, High-Dose Radiation, and Overall Survival in Patients With Non-Small Cell Lung Cancer. International Journal of Radiation Oncology Biology Physics, 2014, 89, 313-321.	0.4	22
159	Timing and intensity of changes in FDG uptake with symptomatic esophagitis during radiotherapy or chemo-radiotherapy. Radiation Oncology, 2014, 9, 37.	1.2	22
160	Three-dimensional reconstruction of monoclonal antibody uptake in tumor and calculation of beta dose-rate nonuniformity. Cancer, 1994, 73, 912-918.	2.0	21
161	The influence of beam model differences in the comparison of dose calculation algorithms for lung cancer treatment planning. Physics in Medicine and Biology, 2005, 50, 801-815.	1.6	21
162	Dosimetric verification of a 3-D electron pencil beam dose calculation algorithm. Medical Physics, 1994, 21, 13-23.	1.6	20

#	ARTICLE	IF	CITATIONS
163	The Clinical Application of Intensity-Modulated Radiation Therapy. <i>Seminars in Radiation Oncology</i> , 2006, 16, 224-231.	1.0	20
164	Sensitivity analysis for lexicographic ordering in radiation therapy treatment planning. <i>Medical Physics</i> , 2012, 39, 3445-3455.	1.6	20
165	Implementing Radiation Dose-Volume Liver Response in Biomechanical Deformable Image Registration. <i>International Journal of Radiation Oncology Biology Physics</i> , 2017, 99, 1004-1012.	0.4	20
166	Greater reduction in mid-treatment FDG-PET volume may be associated with worse survival in non-small cell lung cancer. <i>Radiotherapy and Oncology</i> , 2019, 132, 241-249.	0.3	20
167	Individualized Adaptive Radiation Therapy Allows for Safe Treatment of Hepatocellular Carcinoma in Patients With Child-Turcotte-Pugh B Liver Disease. <i>International Journal of Radiation Oncology Biology Physics</i> , 2021, 109, 212-219.	0.4	20
168	Incorporating big data into treatment plan evaluation: Development of statistical DVH metrics and visualization dashboards. <i>Advances in Radiation Oncology</i> , 2017, 2, 503-514.	0.6	20
169	Thin-film, flat-panel, composite imagers for projection and tomographic imaging. <i>IEEE Transactions on Medical Imaging</i> , 1994, 13, 482-490.	5.4	19
170	Utility of Normal Tissue-to-Tumor $\hat{\mu}/\hat{\sigma}^2$ Ratio When Evaluating Isodoses of Isoeffective Radiation Therapy Treatment Plans. <i>International Journal of Radiation Oncology Biology Physics</i> , 2013, 85, e81-e87.	0.4	19
171	Predictive Models to Determine Clinically Relevant Deviations in Delivered Dose for Head and Neck Cancer. <i>Practical Radiation Oncology</i> , 2019, 9, e422-e431.	1.1	19
172	Fast neutrons and misonidazole for malignant astrocytomas. <i>International Journal of Radiation Oncology Biology Physics</i> , 1985, 11, 679-686.	0.4	18
173	Improvement of precision in spatial localization of radio-opaque markers using the two-film technique. <i>Medical Physics</i> , 1991, 18, 1126-1131.	1.6	18
174	Dosimetric Analysis of Radiation-induced Gastric Bleeding. <i>International Journal of Radiation Oncology Biology Physics</i> , 2012, 84, e1-e6.	0.4	18
175	Using Indocyanine Green Extraction to Predict Liver Function After Stereotactic Body Radiation Therapy for Hepatocellular Carcinoma. <i>International Journal of Radiation Oncology Biology Physics</i> , 2018, 100, 131-137.	0.4	18
176	Tolerance of the human spinal cord to high energy P(66)Be(49) neutrons. <i>International Journal of Radiation Oncology Biology Physics</i> , 1985, 11, 743-749.	0.4	17
177	Spinal cord dose from standard head and neck irradiation: implications for three-dimensional treatment planning. <i>Radiotherapy and Oncology</i> , 1998, 47, 185-189.	0.3	17
178	A room-based diagnostic imaging system for measurement of patient setup. <i>Medical Physics</i> , 1998, 25, 2385-2387.	1.6	16
179	The clinical application of a non-axial treatment plan for pancreatic and biliary malignancies. <i>Radiotherapy and Oncology</i> , 1992, 24, 198-200.	0.3	15
180	Body Mass Index Predicts the Incidence of Radiation Pneumonitis in Breast Cancer Patients. <i>Cancer Journal (Sudbury, Mass)</i> , 2005, 11, 390-398.	1.0	15

#	ARTICLE	IF	CITATIONS
181	Arterial Perfusion Imagingâ€”Defined Subvolume of Intrahepatic Cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2014, 89, 167-174.	0.4	15
182	Use a survival model to correlate single-nucleotide polymorphisms of DNA repair genes with radiation doseâ€”response in patients with non-small cell lung cancer. <i>Radiotherapy and Oncology</i> , 2015, 117, 77-82.	0.3	15
183	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.	2.7	15
184	In phantom determination of collimator scatter factor. <i>Medical Physics</i> , 1996, 23, 1207-1212.	1.6	14
185	Ideal spatial radiotherapy dose distributions subject to positional uncertainties. <i>Physics in Medicine and Biology</i> , 2006, 51, 6329-6347.	1.6	14
186	Radiation-induced lung toxicity in non-small-cell lung cancer: Understanding the interactions of clinical factors and cytokines with the dose-toxicity relationship. <i>Radiotherapy and Oncology</i> , 2017, 125, 66-72.	0.3	14
187	TNFR1 and the TNF α axis as a targetable mediator of liver injury from stereotactic body radiation therapy. <i>Translational Oncology</i> , 2021, 14, 100950.	1.7	14
188	A quantitative study of radionuclide characteristics for radioimmunotherapy from 3D reconstructions using serial autoradiography. <i>International Journal of Radiation Oncology Biology Physics</i> , 1996, 35, 165-172.	0.4	13
189	A Bayesian mixture model relating dose to critical organs and functional complication in 3D conformal radiation therapy. <i>Biostatistics</i> , 2005, 6, 615-632.	0.9	13
190	Optimizing global liver function in radiation therapy treatment planning. <i>Physics in Medicine and Biology</i> , 2016, 61, 6465-6484.	1.6	13
191	Quantum deep reinforcement learning for clinical decision support in oncology: application to adaptive radiotherapy. <i>Scientific Reports</i> , 2021, 11, 23545.	1.6	13
192	The impact of breathing motion versus heterogeneity effects in lung cancer treatment planning. <i>Medical Physics</i> , 2007, 34, 1462-1473.	1.6	12
193	Lower Incidence of Esophagitis in the Elderly Undergoing Definitive Radiation Therapy for Lung Cancer. <i>Journal of Thoracic Oncology</i> , 2017, 12, 539-546.	0.5	12
194	Quantumâ€”inspired algorithm for radiotherapy planning optimization. <i>Medical Physics</i> , 2020, 47, 5-18.	1.6	12
195	A brain tumor dose escalation protocol based on effective dose equivalence to prior experience. <i>International Journal of Radiation Oncology Biology Physics</i> , 1998, 42, 137-141.	0.4	11
196	A practical approach for quantitative estimates of voxel-by-voxel liver perfusion using DCE imaging and a compartmental model. <i>Medical Physics</i> , 2006, 33, 3057-3062.	1.6	11
197	Response-driven imaging biomarkers for predicting radiation necrosis of the brain. <i>Physics in Medicine and Biology</i> , 2014, 59, 2535-2547.	1.6	11
198	Methods for Reducing Normal Tissue Complication Probabilities in Oropharyngeal Cancer: Dose Reduction or Planning Target Volume Elimination. <i>International Journal of Radiation Oncology Biology Physics</i> , 2016, 96, 645-652.	0.4	11

#	ARTICLE	IF	CITATIONS
199	A phase II trial of mid-treatment FDG-PET adaptive, individualized radiation therapy plus concurrent chemotherapy in patients with non-small cell lung cancer (NSCLC).. Journal of Clinical Oncology, 2013, 31, 7522-7522.	0.8	11
200	Scaling neutron absorbed dose distributions from one medium to another. Medical Physics, 1983, 10, 436-443.	1.6	10
201	Priority-driven plan optimization in locally advanced lung patients based on perfusion SPECT imaging. Advances in Radiation Oncology, 2016, 1, 281-289.	0.6	10
202	Prediction of Radiation Esophagitis in Non-Small Cell Lung Cancer Using Clinical Factors, Dosimetric Parameters, and Pretreatment Cytokine Levels. Translational Oncology, 2018, 11, 102-108.	1.7	10
203	A model combining age, equivalent uniform dose and IL-8 may predict radiation esophagitis in patients with non-small cell lung cancer. Radiotherapy and Oncology, 2018, 126, 506-510.	0.3	10
204	Prediction of radiation-induced liver disease by Lyman normal-tissue complication probability model in three-dimensional conformal radiation therapy for primary liver carcinoma: In regards to Xu et al. (Int J Radiat Oncol Biol Phys 2006;65:189-195). International Journal of Radiation Oncology Biology Physics, 2006, 66, 1272.	0.4	9
205	Evaluating the Relationships Between Rectal Normal Tissue Complication Probability and the Portion of Seminal Vesicles Included in the Clinical Target Volume in Intensity-Modulated Radiotherapy for Prostate Cancer. International Journal of Radiation Oncology Biology Physics, 2009, 73, 334-340.	0.4	9
206	MRI to delineate the gross tumor volume of nasopharyngeal cancers: which sequences and planes should be used?. Radiology and Oncology, 2014, 48, 323-330.	0.6	9
207	A situational awareness Bayesian network approach for accurate and credible personalized adaptive radiotherapy outcomes prediction in lung cancer patients. Physica Medica, 2021, 87, 11-23.	0.4	9
208	A sensitivity study of micro-TLDs for in vivo dosimetry of radioimmunotherapy. Medical Physics, 1991, 18, 1195-1199.	1.6	8
209	Dosimetric implications of residual seminal vesicle motion in fiducial-guided intensity-modulated radiotherapy for prostate cancer. Medical Dosimetry, 2012, 37, 240-244.	0.4	8
210	Central Airway Toxicity After High Dose Radiation: A Combined Analysis of Prospective Clinical Trials for Non-Small Cell Lung Cancer. International Journal of Radiation Oncology Biology Physics, 2020, 108, 587-596.	0.4	8
211	Precision radiotherapy via information integration of expert human knowledge and AI recommendation to optimize clinical decision making. Computer Methods and Programs in Biomedicine, 2022, 221, 106927.	2.6	8
212	A new look at displacement factor and point of measurement corrections in ionization chamber dosimetry. Medical Physics, 1983, 10, 307-313.	1.6	7
213	Mechanical and dosimetric quality control for computer controlled radiotherapy treatment equipment. Medical Physics, 1995, 22, 563-566.	1.6	7
214	A single plan approach for differentially dosing sequential target volumes. Medical Dosimetry, 1997, 22, 275-281.	0.4	7
215	In response to Dr. TomÃ© and Dr. Fenwick. International Journal of Radiation Oncology Biology Physics, 2004, 58, 1319-1320.	0.4	7
216	Predicting Outcome of Patients with High-grade Gliomas After Radiotherapy using Quantitative Analysis of T1-weighted Magnetic Resonance Imaging. International Journal of Radiation Oncology Biology Physics, 2007, 67, 1476-1483.	0.4	7

#	ARTICLE	IF	CITATIONS
217	The lethal effects of fermilab fast neutrons vary with the depth of cells in a water phantom. International Journal of Radiation Oncology Biology Physics, 1991, 20, 1341-1345.	0.4	6
218	Monte Carlo-based lung cancer treatment planning incorporating PET-defined target volumes. Journal of Applied Clinical Medical Physics, 2005, 6, 65-76.	0.8	6
219	Effect of daily localization and correction on the setup uncertainty: dependences on the measurement uncertainty, re-positioning uncertainty and action level. Physics in Medicine and Biology, 2007, 52, 6575-6587.	1.6	6
220	Designing Targets for Elective Nodal Irradiation in Lung Cancer Radiotherapy: A Planning Study. International Journal of Radiation Oncology Biology Physics, 2009, 73, 1397-1403.	0.4	6
221	Improved prediction of radiation pneumonitis by combining biological and radiobiological parameters using a data-driven Bayesian network analysis. Translational Oncology, 2022, 21, 101428.	1.7	6
222	The effect of missing backscatter on the dose distribution of a p (66)Be(49) neutron therapy beam. Medical Physics, 1982, 9, 559-562.	1.6	5
223	Activation of the major constituents of tissue and air by a fast neutron radiation therapy beam. Medical Physics, 1983, 10, 636-641.	1.6	5
224	Comment on "Intercomparison on normalized head-scatter factor measurement techniques" [Med. Phys. 22, 249-253 (1995)]. Medical Physics, 1995, 22, 1471-1471.	1.6	5
225	Use of segmental boost fields in the irradiation of inguinal lymphatic nodes. Medical Dosimetry, 1999, 24, 27-32.	0.4	5
226	Modeling Patient-Specific Dose-Function Response for Enhanced Characterization of Personalized Functional Damage. International Journal of Radiation Oncology Biology Physics, 2018, 102, 1265-1275.	0.4	5
227	Pattern of failure after high-dose thoracic radiation for non-small cell lung cancer: the University of Michigan experience. Journal of Radiation Oncology, 2012, 1, 267-272.	0.7	4
228	Monte Carlo-based lung cancer treatment planning incorporating PET-defined target volumes. Journal of Applied Clinical Medical Physics, 2005, 6, 65-76.	0.8	4
229	Characteristics of A ¹⁵⁰ plastic ^e equivalent gas in A ¹⁵⁰ plastic ionization chambers for p (66)Be(49) neutrons. Medical Physics, 1982, 9, 884-887.	1.6	3
230	Effect of backscatter on cell survival for a clinical electron beam. Radiotherapy and Oncology, 1991, 21, 269-272.	0.3	3
231	Investigating the SPECT Dose-Function Metrics Associated With Radiation-Induced Lung Toxicity Risk in Patients With Non-small Cell Lung Cancer Undergoing Radiation Therapy. Advances in Radiation Oncology, 2021, 6, 100666.	0.6	3
232	Dynamic stochastic deep learning approaches for predicting geometric changes in head and neck cancer. Physics in Medicine and Biology, 2021, 66, 225006.	1.6	3
233	Radiation Sensitivity of the Liver: Models and Clinical Data. , 2017, , 39-47.		2
234	Phase II study of individualized adaptive stereotactic body radiotherapy (SBRT) for patients at high risk for liver damage.. Journal of Clinical Oncology, 2016, 34, 424-424.	0.8	2

#	ARTICLE	IF	CITATIONS
235	The use of nonhydrogenous wedges for therapeutic neutron beam shaping. Medical Physics, 1982, 9, 204-207.	1.6	1
236	The effects of hydrogenous and nonhydrogenous filters on the quality of a p (66)Be(49) neutron beam. Medical Physics, 1982, 9, 199-203.	1.6	1
237	Determination of electron beam mean incident energy from d 5 0 (ionization) values. Medical Physics, 1987, 14, 985-991.	1.6	1
238	Relative electron beam measurements: Scaling depths in clear polystyrene to equivalent depths in water. Medical Physics, 1987, 14, 410-413.	1.6	1
239	Prognostic value of cytokine profile on survival in non-small cell lung cancer patients treated with radiotherapy.. Journal of Clinical Oncology, 2015, 33, 7525-7525.	0.8	1
240	Feasibility of functionâ€­guided lung treatment planning with parametric response mapping. Journal of Applied Clinical Medical Physics, 2021, 22, 80-89.	0.8	1
241	Absolute neutron dosimetry: Effects of ionization chamber wall thickness. Medical Physics, 1985, 12, 46-52.	1.6	0
242	An application of Bayesian statistical methods to adaptive radiotherapy. Physics in Medicine and Biology, 2006, 51, 3603-3603.	1.6	0
243	In response to Dr. Yan et al.. International Journal of Radiation Oncology Biology Physics, 2006, 64, 1614-1615.	0.4	0
244	MINIO1.13: Prediction of Lung Toxicity in the Definitive Radiotherapy of Nonâ€­Small Cell Lung Cancer using Clinical, Dosimetric and Biologic Factors. Journal of Thoracic Oncology, 2016, 11, S264-S265.	0.5	0
245	In Reply to Klement etÂ­al. International Journal of Radiation Oncology Biology Physics, 2021, 110, 250-251.	0.4	0
246	A Bayesian dose-finding design for outcomes evaluated with uncertainty. Clinical Trials, 2021, 18, 279-285.	0.7	0
247	In Reply to Tsurugai et al.. International Journal of Radiation Oncology Biology Physics, 2022, 113, 229.	0.4	0