

# David A Jaffray

## List of Publications by Year in descending order

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363  
papers

22,462  
citations

7087

78  
h-index

10441

139  
g-index

367  
all docs

367  
docs citations

367  
times ranked

16253  
citing authors

#	ARTICLE	IF	CITATIONS
1	Flat-panel cone-beam computed tomography for image-guided radiation therapy. International Journal of Radiation Oncology Biology Physics, 2002, 53, 1337-1349.	0.4	1,170
2	The use of active breathing control (ABC) to reduce margin for breathing motion. International Journal of Radiation Oncology Biology Physics, 1999, 44, 911-919.	0.4	853
3	Expanding global access to radiotherapy. Lancet Oncology, The, 2015, 16, 1153-1186.	5.1	709
4	Gold nanoparticles for applications in cancer radiotherapy: Mechanisms and recent advancements. Advanced Drug Delivery Reviews, 2017, 109, 84-101.	6.6	621
5	Gold Nanoparticles as Radiation Sensitizers in Cancer Therapy. Radiation Research, 2010, 173, 719.	0.7	547
6	Cone-beam computed tomography with a flat-panel imager: Magnitude and effects of x-ray scatter. Medical Physics, 2001, 28, 220-231.	1.6	512
7	Image-guided radiotherapy: from current concept to future perspectives. Nature Reviews Clinical Oncology, 2012, 9, 688-699.	12.5	379
8	Advances in Image-Guided Radiation Therapy. Journal of Clinical Oncology, 2007, 25, 938-946.	0.8	369
9	Prostate gland motion assessed with cine-magnetic resonance imaging (cine-MRI). International Journal of Radiation Oncology Biology Physics, 2005, 62, 406-417.	0.4	321
10	Cone-Beam Computed Tomography for On-Line Image Guidance of Lung Stereotactic Radiotherapy: Localization, Verification, and Intrafraction Tumor Position. International Journal of Radiation Oncology Biology Physics, 2007, 68, 243-252.	0.4	317
11	A radiographic and tomographic imaging system integrated into a medical linear accelerator for localization of bone and soft-tissue targets. International Journal of Radiation Oncology Biology Physics, 1999, 45, 773-789.	0.4	284
12	Accelerated partial breast irradiation using 3D conformal radiation therapy (3D-CRT). International Journal of Radiation Oncology Biology Physics, 2003, 55, 302-311.	0.4	277
13	Volume CT with a flat-panel detector on a mobile, isocentric C-arm: Pre-clinical investigation in guidance of minimally invasive surgery. Medical Physics, 2005, 32, 241-254.	1.6	275
14	Patient dose from kilovoltage cone beam computed tomography imaging in radiation therapy. Medical Physics, 2006, 33, 1573-1582.	1.6	275
15	Comparison of localization performance with implanted fiducial markers and cone-beam computed tomography for on-line image-guided radiotherapy of the prostate. International Journal of Radiation Oncology Biology Physics, 2007, 67, 942-953.	0.4	264
16	The effects of intra-fraction organ motion on the delivery of dynamic intensity modulation. Physics in Medicine and Biology, 1998, 43, 91-104.	1.6	249
17	A simple, direct method for x-ray scatter estimation and correction in digital radiography and cone-beam CT. Medical Physics, 2005, 33, 187-197.	1.6	246
18	Spektr: A computational tool for x-ray spectral analysis and imaging system optimization. Medical Physics, 2004, 31, 3057-3067.	1.6	244

#	ARTICLE	IF	CITATIONS
19	Clinical use of electronic portal imaging: Report of AAPM Radiation Therapy Committee Task Group 58. <i>Medical Physics</i> , 2001, 28, 712-737.	1.6	241
20	Accurate technique for complete geometric calibration of cone-beam computed tomography systems. <i>Medical Physics</i> , 2005, 32, 968-983.	1.6	241
21	Vulnerabilities of radiomic signature development: The need for safeguards. <i>Radiotherapy and Oncology</i> , 2019, 130, 2-9.	0.3	233
22	Cone-beam-CT guided radiation therapy: technical implementation. <i>Radiotherapy and Oncology</i> , 2005, 75, 279-286.	0.3	217
23	Irradiation of gold nanoparticles by x-rays: Monte Carlo simulation of dose enhancements and the spatial properties of the secondary electrons production. <i>Medical Physics</i> , 2011, 38, 624-631.	1.6	215
24	SlicerRT: Radiation therapy research toolkit for 3D Slicer. <i>Medical Physics</i> , 2012, 39, 6332-6338.	1.6	194
25	The influence of antiscatter grids on soft-tissue detectability in cone-beam computed tomography with flat-panel detectors. <i>Medical Physics</i> , 2004, 31, 3506-3520.	1.6	192
26	Phase 2 study of preoperative image-guided intensity-modulated radiation therapy to reduce wound and combined modality morbidities in lower extremity soft tissue sarcoma. <i>Cancer</i> , 2013, 119, 1878-1884.	2.0	187
27	Intraoperative cone-beam CT for guidance of head and neck surgery: Assessment of dose and image quality using a C-arm prototype. <i>Medical Physics</i> , 2006, 33, 3767-3780.	1.6	186
28	The use of high-dose-rate brachytherapy alone after lumpectomy in patients with early-stage breast cancer treated with breast-conserving therapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2001, 50, 1003-1011.	0.4	183
29	High resolution gel-dosimetry by optical-CT and MR scanning. <i>Medical Physics</i> , 2001, 28, 1436-1445.	1.6	183
30	Automatic prostate localization on cone-beam CT scans for high precision image-guided radiotherapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2005, 63, 975-984.	0.4	182
31	Optimization of x-ray imaging geometry (with specific application to flat-panel cone-beam computed) $T_j ETQq1 1 0,784314 rgBT /Ove$	1.6	181
32	Improvement in dose escalation using the process of adaptive radiotherapy combined with three-dimensional conformal or intensity-modulated beams for prostate cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2001, 50, 1226-1234.	0.4	179
33	Inter- and Intrafractional Tumor and Organ Movement in Patients With Cervical Cancer Undergoing Radiotherapy: A Cinematic-MRI Point-of-Interest Study. <i>International Journal of Radiation Oncology Biology Physics</i> , 2008, 70, 1507-1515.	0.4	175
34	Online image-guided intensity-modulated radiotherapy for prostate cancer: How much improvement can we expect? A theoretical assessment of clinical benefits and potential dose escalation by improving precision and accuracy of radiation delivery. <i>International Journal of Radiation Oncology Biology Physics</i> , 2004, 60, 1602-1610.	0.4	161
35	A magnetic resonance imaging study of prostate deformation relative to implanted gold fiducial markers. <i>International Journal of Radiation Oncology Biology Physics</i> , 2007, 67, 48-56.	0.4	160
36	Costs, affordability, and feasibility of an essential package of cancer control interventions in low-income and middle-income countries: key messages from Disease Control Priorities, 3rd edition. <i>Lancet</i> , The, 2016, 387, 2133-2144.	6.3	156

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37	Characterization of scattered radiation in kV CBCT images using Monte Carlo simulations. Medical Physics, 2006, 33, 4320-4329.	1.6	155
38	Cellular uptake and transport of gold nanoparticles incorporated in a liposomal carrier. Nanomedicine: Nanotechnology, Biology, and Medicine, 2010, 6, 161-169.	1.7	152
39	Quantifying Interfraction and Intrafraction Tumor Motion in Lung Stereotactic Body Radiotherapy Using Respiration-Correlated Cone Beam Computed Tomography. International Journal of Radiation Oncology Biology Physics, 2009, 75, 688-695.	0.4	149
40	The influence of bowtie filtration on cone-beam CT image quality. Medical Physics, 2009, 36, 22-32.	1.6	148
41	Emergent Technologies for 3-Dimensional Image-Guided Radiation Delivery. Seminars in Radiation Oncology, 2005, 15, 208-216.	1.0	144
42	On-line aSi portal imaging of implanted fiducial markers for the reduction of interfraction error during conformal radiotherapy of prostate carcinoma. International Journal of Radiation Oncology Biology Physics, 2004, 60, 329-334.	0.4	141
43	Intracellular uptake, transport, and processing of nanostructures in cancer cells. Nanomedicine: Nanotechnology, Biology, and Medicine, 2009, 5, 118-127.	1.7	140
44	Accurate Accumulation of Dose for Improved Understanding of Radiation Effects in Normal Tissue. International Journal of Radiation Oncology Biology Physics, 2010, 76, S135-S139.	0.4	139
45	Feasibility of a novel deformable image registration technique to facilitate classification, targeting, and monitoring of tumor and normal tissue. International Journal of Radiation Oncology Biology Physics, 2006, 64, 1245-1254.	0.4	137
46	Optical-CT gel-dosimetry I: Basic investigations. Medical Physics, 2003, 30, 623-634.	1.6	136
47	The stability of mechanical calibration for a kV cone beam computed tomography system integrated	1.6	136
48	The transformation of radiation oncology using real-time magnetic resonance guidance: A review. European Journal of Cancer, 2019, 122, 42-52.	1.3	136
49	The use of adaptive radiation therapy to reduce setup error: a prospective clinical study. International Journal of Radiation Oncology Biology Physics, 1998, 41, 715-720.	0.4	133
50	Assessment of a Model-Based Deformable Image Registration Approach for Radiation Therapy Planning. International Journal of Radiation Oncology Biology Physics, 2007, 68, 572-580.	0.4	133
51	Image-Guided Radiotherapy: Has It Influenced Patient Outcomes?. Seminars in Radiation Oncology, 2012, 22, 50-61.	1.0	129
52	Radiotherapy for Cancer: Present and Future. Advanced Drug Delivery Reviews, 2017, 109, 1-2.	6.6	128
53	Fully automated treatment planning for head and neck radiotherapy using a voxel-based dose prediction and dose mimicking method. Physics in Medicine and Biology, 2017, 62, 5926-5944.	1.6	127
54	Radiation effects on the tumor microenvironment: Implications for nanomedicine delivery. Advanced Drug Delivery Reviews, 2017, 109, 119-130.	6.6	126

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55	Radiosensitization by gold nanoparticles: Will they ever make it to the clinic?. <i>Radiotherapy and Oncology</i> , 2017, 124, 344-356.	0.3	122
56	Novel dosimetric phantom for quality assurance of volumetric modulated arc therapy. <i>Medical Physics</i> , 2009, 36, 1813-1821.	1.6	113
57	Repeatability and reproducibility of MRI-based radiomic features in cervical cancer. <i>Radiotherapy and Oncology</i> , 2019, 135, 107-114.	0.3	112
58	Automatic segmentation of normal and target structures in head and neck CT images: A feature-driven model-based approach. <i>Medical Physics</i> , 2011, 38, 6160-6170.	1.6	111
59	Respiration correlated cone-beam computed tomography and 4DCT for evaluating target motion in Stereotactic Lung Radiation Therapy. <i>Acta Oncologica</i> , 2006, 45, 915-922.	0.8	110
60	Setup error in radiotherapy: on-line correction using electronic kilovoltage and megavoltage radiographs. <i>International Journal of Radiation Oncology Biology Physics</i> , 2000, 47, 825-839.	0.4	109
61	Online ultrasound image guidance for radiotherapy of prostate cancer: impact of image acquisition on prostate displacement. <i>International Journal of Radiation Oncology Biology Physics</i> , 2004, 59, 595-601.	0.4	109
62	Review of image-guided radiation therapy. <i>Expert Review of Anticancer Therapy</i> , 2007, 7, 89-103.	1.1	109
63	Assessment of residual error in liver position using kV cone-beam computed tomography for liver cancer high-precision radiation therapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2006, 66, 610-619.	0.4	108
64	Cervical Cancer Regression Measured Using Weekly Magnetic Resonance Imaging During Fractionated Radiotherapy: Radiobiologic Modeling and Correlation With Tumor Hypoxia. <i>International Journal of Radiation Oncology Biology Physics</i> , 2008, 70, 126-133.	0.4	107
65	Generalized DQE analysis of radiographic and dual-energy imaging using flat-panel detectors. <i>Medical Physics</i> , 2005, 32, 1397-1413.	1.6	105
66	In Vivo Performance of a Liposomal Vascular Contrast Agent for CT and MR-Based Image Guidance Applications. <i>Pharmaceutical Research</i> , 2007, 24, 1193-1201.	1.7	103
67	Interfraction and Respiratory Organ Motion During Conformal Radiotherapy in Gastric Cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2010, 77, 53-59.	0.4	99
68	Direct observation of ultrafast-electron-transfer reactions unravels high effectiveness of reductive DNA damage. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 11778-11783.	3.3	99
69	Localization of Pulmonary Nodules Using Navigation Bronchoscope and a Near-Infrared Fluorescence Thoracoscope. <i>Annals of Thoracic Surgery</i> , 2015, 99, 224-230.	0.7	97
70	Impact of Immobilization on Intrafraction Motion for Spine Stereotactic Body Radiotherapy Using Cone Beam Computed Tomography. <i>International Journal of Radiation Oncology Biology Physics</i> , 2012, 84, 520-526.	0.4	96
71	Cone Beam Computed Tomography Guidance for Setup of Patients Receiving Accelerated Partial Breast Irradiation. <i>International Journal of Radiation Oncology Biology Physics</i> , 2007, 68, 547-554.	0.4	95
72	Active breathing control (ABC) for Hodgkin's disease: reduction in normal tissue irradiation with deep inspiration and implications for treatment. <i>International Journal of Radiation Oncology Biology Physics</i> , 2000, 48, 797-806.	0.4	90

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73	Compensators for dose and scatter management in cone-beam computed tomography. <i>Medical Physics</i> , 2007, 34, 2691-2703.	1.6	88
74	Low-dose-rate brachytherapy as the sole radiation modality in the management of patients with early-stage breast cancer treated with breast-conserving therapy: Preliminary results of a pilot trial. <i>International Journal of Radiation Oncology Biology Physics</i> , 1997, 38, 301-310.	0.4	87
75	Online planning and delivery technique for radiotherapy of spinal metastases using cone-beam CT: Image quality and system performance. <i>International Journal of Radiation Oncology Biology Physics</i> , 2007, 67, 1229-1237.	0.4	87
76	Effect of Immobilization and Performance Status on Intrafraction Motion for Stereotactic Lung Radiotherapy: Analysis of 133 Patients. <i>International Journal of Radiation Oncology Biology Physics</i> , 2011, 81, 1568-1575.	0.4	85
77	Spatial and temporal mapping of heterogeneity in liposome uptake and microvascular distribution in an orthotopic tumor xenograft model. <i>Journal of Controlled Release</i> , 2015, 207, 101-111.	4.8	84
78	Investigation of C-Arm Cone-Beam CT-Guided Surgery of the Frontal Recess. <i>Laryngoscope</i> , 2005, 115, 2138-2143.	1.1	81
79	Multimodal Contrast Agent for Combined Computed Tomography and Magnetic Resonance Imaging Applications. <i>Investigative Radiology</i> , 2006, 41, 339-348.	3.5	80
80	A quality assurance program for image quality of cone-beam CT guidance in radiation therapy. <i>Medical Physics</i> , 2008, 35, 1807-1815.	1.6	79
81	Fluence field optimization for noise and dose objectives in CT. <i>Medical Physics</i> , 2011, 38, S2-S17.	1.6	78
82	Intraoperative Cone-beam CT for Guidance of Temporal Bone Surgery. <i>Otolaryngology - Head and Neck Surgery</i> , 2006, 134, 801-808.	1.1	77
83	Energy dependence (75kVp to 18MV) of radiochromic films assessed using a real-time optical dosimeter. <i>Medical Physics</i> , 2007, 34, 458-463.	1.6	76
84	APN/CD13-targeting as a strategy to alter the tumor accumulation of liposomes. <i>Journal of Controlled Release</i> , 2011, 154, 298-305.	4.8	76
85	Full orientation invariance and improved feature selectivity of 3D SIFT with application to medical image analysis. , 2008, , .		75
86	Standardization of terminology in stereotactic radiosurgery: Report from the Standardization Committee of the International Leksell Gamma Knife Society. <i>Journal of Neurosurgery</i> , 2014, 121, 2-15.	0.9	75
87	Dose-volume analysis for quality assurance of interstitial brachytherapy for breast cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 1999, 45, 803-810.	0.4	74
88	Monte Carlo simulation on a gold nanoparticle irradiated by electron beams. <i>Physics in Medicine and Biology</i> , 2012, 57, 3323-3331.	1.6	74
89	Changes in apparent diffusion coefficient and T <sub>2</sub> relaxation during radiotherapy for prostate cancer. <i>Journal of Magnetic Resonance Imaging</i> , 2013, 37, 909-916.	1.9	74
90	Investigation of energy dependence of EBT and EBT <sup>2</sup> Gafchromic film. <i>Medical Physics</i> , 2010, 37, 571-576.	1.6	71

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91	An integral quality monitoring system for real-time verification of intensity modulated radiation therapy. <i>Medical Physics</i> , 2009, 36, 5420-5428.	1.6	70
92	Heat-activated thermosensitive liposomal cisplatin (HTLC) results in effective growth delay of cervical carcinoma in mice. <i>Journal of Controlled Release</i> , 2014, 178, 69-78.	4.8	69
93	A Facility for Magnetic Resonance-Guided Radiation Therapy. <i>Seminars in Radiation Oncology</i> , 2014, 24, 193-195.	1.0	69
94	A Mathematical Model of the Enhanced Permeability and Retention Effect for Liposome Transport in Solid Tumors. <i>PLoS ONE</i> , 2013, 8, e81157.	1.1	66
95	Characterization and real-time optical measurements of the ionizing radiation dose response for a new radiochromic medium. <i>Medical Physics</i> , 2005, 32, 2510-2516.	1.6	65
96	Automated Weekly Replanning for Intensity-Modulated Radiotherapy of Cervix Cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2010, 78, 350-358.	0.4	65
97	The intra-tumoral relationship between microcirculation, interstitial fluid pressure and liposome accumulation. <i>Journal of Controlled Release</i> , 2015, 211, 163-170.	4.8	65
98	Quality Assurance for the Geometric Accuracy of Cone-Beam CT Guidance in Radiation Therapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2008, 71, S57-S61.	0.4	64
99	Artificial intelligence-based clinical decision support in modern medical physics: Selection, acceptance, commissioning, and quality assurance. <i>Medical Physics</i> , 2020, 47, e228-e235.	1.6	64
100	Implementation of 3D-virtual brachytherapy in the management of breast cancer: A description of a new method of interstitial brachytherapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 1998, 40, 629-635.	0.4	63
101	Quantitative CT Imaging of the Spatial and Temporal Distribution of Liposomes in a Rabbit Tumor Model. <i>Molecular Pharmaceutics</i> , 2009, 6, 571-580.	2.3	62
102	Proximal Cerebral Arteries Develop Myogenic Responsiveness in Heart Failure via Tumor Necrosis Factor-Dependent Activation of Sphingosine-1-Phosphate Signaling. <i>Circulation</i> , 2012, 126, 196-206.	1.6	62
103	Hypoxia and Cellular Localization Influence the Radiosensitizing Effect of Gold Nanoparticles (AuNPs) in Breast Cancer Cells. <i>Radiation Research</i> , 2014, 182, 475-488.	0.7	62
104	Nanomedicine and tumor heterogeneity: Concept and complex reality. <i>Nano Today</i> , 2016, 11, 402-414.	6.2	59
105	Temperature and hydration effects on absorbance spectra and radiation sensitivity of a radiochromic medium. <i>Medical Physics</i> , 2008, 35, 4545-4555.	1.6	58
106	Technology for Innovation in Radiation Oncology. <i>International Journal of Radiation Oncology Biology Physics</i> , 2015, 93, 485-492.	0.4	58
107	Automatic localization of the prostate for on-line or off-line image-guided radiotherapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2004, 60, 623-635.	0.4	56
108	Performance of a Novel Repositioning Head Frame for Gamma Knife Perfexion and Image-Guided Linac-Based Intracranial Stereotactic Radiotherapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2010, 78, 306-313.	0.4	55

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109	An integrated approach to segmentation and nonrigid registration for application in image-guided pelvic radiotherapy. <i>Medical Image Analysis</i> , 2011, 15, 772-785.	7.0	55
110	Safety considerations for IGRT: Executive summary. <i>Practical Radiation Oncology</i> , 2013, 3, 167-170.	1.1	55
111	Radiation and Heat Improve the Delivery and Efficacy of Nanotherapeutics by Modulating Intratumoral Fluid Dynamics. <i>ACS Nano</i> , 2018, 12, 7583-7600.	7.3	55
112	Navigated Pelvic Osteotomy and Tumor Resection. <i>Journal of Bone and Joint Surgery - Series A</i> , 2015, 97, 40-46.	1.4	54
113	A quantum accounting and detective quantum efficiency analysis for video-based portal imaging. <i>Medical Physics</i> , 1997, 24, 815-826.	1.6	53
114	Pelvic Lymph Node Topography for Radiotherapy Treatment Planning From Ferumoxtran-10 Contrast-Enhanced Magnetic Resonance Imaging. <i>International Journal of Radiation Oncology Biology Physics</i> , 2009, 74, 844-851.	0.4	52
115	A Cinematic Magnetic Resonance Imaging Study of Milk of Magnesia Laxative and an Antiflatulent Diet to Reduce Intrafraction Prostate Motion. <i>International Journal of Radiation Oncology Biology Physics</i> , 2010, 77, 1072-1078.	0.4	52
116	Cyclophosphamide-Mediated Tumor Priming for Enhanced Delivery and Antitumor Activity of HER2-Targeted Liposomal Doxorubicin (MM-302). <i>Molecular Cancer Therapeutics</i> , 2015, 14, 2060-2071.	1.9	51
117	A gradient-loadable <sup>64</sup> Cu-chelator for quantifying tumor deposition kinetics of nanoliposomal therapeutics by positron emission tomography. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2015, 11, 155-165.	1.7	51
118	Improving the dosimetric coverage of interstitial high-dose-rate breast implants. <i>International Journal of Radiation Oncology Biology Physics</i> , 2000, 46, 35-43.	0.4	49
119	Improving image-guided target localization through deformable registration. <i>Acta Oncologica</i> , 2008, 47, 1279-1285.	0.8	49
120	Predictors of Radiotherapy Induced Bone Injury (RIBI) after stereotactic lung radiotherapy. <i>Radiation Oncology</i> , 2012, 7, 159.	1.2	49
121	Tumor perfusion imaging predicts the intra-tumoral accumulation of liposomes. <i>Journal of Controlled Release</i> , 2013, 172, 351-357.	4.8	49
122	Ambient Mass Spectrometry Imaging with Picosecond Infrared Laser Ablation Electrospray Ionization (PIR-LAESI). <i>Analytical Chemistry</i> , 2015, 87, 12071-12079.	3.2	49
123	Curative-intent Metastasis-directed Therapies for Molecularly-defined Oligorecurrent Prostate Cancer: A Prospective Phase II Trial Testing the Oligometastasis Hypothesis. <i>European Urology</i> , 2021, 80, 374-382.	0.9	49
124	An empirical method for lag correction in cone-beam CT. <i>Medical Physics</i> , 2008, 35, 5187-5196.	1.6	48
125	Hybrid adaptive radiotherapy with on-line MRI in cervix cancer IMRT. <i>Radiotherapy and Oncology</i> , 2014, 110, 323-328.	0.3	48
126	Validation of biomechanical deformable image registration in the abdomen, thorax, and pelvis in a commercial radiotherapy treatment planning system. <i>Medical Physics</i> , 2017, 44, 3407-3417.	1.6	48



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127	A local shift-invariant Fourier model and experimental validation of circular cone-beam computed tomography artifacts. <i>Medical Physics</i> , 2009, 36, 500-512.	1.6	47
128	Dual-beam imaging for online verification of radiotherapy field placement. <i>International Journal of Radiation Oncology Biology Physics</i> , 1995, 33, 1273-1280.	0.4	46
129	Evaluation of the effect of patient dose from cone beam computed tomography on prostate IMRT using Monte Carlo simulation. <i>Medical Physics</i> , 2008, 35, 52-60.	1.6	45
130	Accuracy and sensitivity of finite element model-based deformable registration of the prostate. <i>Medical Physics</i> , 2008, 35, 4019-4025.	1.6	45
131	A multimodal nano agent for image-guided cancer surgery. <i>Biomaterials</i> , 2015, 67, 160-168.	5.7	45
132	Scale-up of radiotherapy for cervical cancer in the era of human papillomavirus vaccination in low-income and middle-income countries: a model-based analysis of need and economic impact. <i>Lancet Oncology</i> , 2019, 20, 915-923.	5.1	45
133	Dosimetrically Triggered Adaptive Intensity Modulated Radiation Therapy for Cervical Cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2014, 90, 147-154.	0.4	44
134	Significant Radiation Enhancement Effects by Gold Nanoparticles in Combination with Cisplatin in Triple Negative Breast Cancer Cells and Tumor Xenografts. <i>Radiation Research</i> , 2017, 187, 147-160.	0.7	44
135	Sensitivity of radiomic features to inter-observer variability and image pre-processing in Apparent Diffusion Coefficient (ADC) maps of cervix cancer patients. <i>Radiotherapy and Oncology</i> , 2020, 143, 88-94.	0.3	44
136	Measurement of Tumor Hypoxia in Patients with Advanced Pancreatic Cancer Based on <sup>18</sup> F-Fluoroazomyin Arabinoside Uptake. <i>Journal of Nuclear Medicine</i> , 2016, 57, 361-366.	2.8	42
137	The Exploitation of Low-Energy Electrons in Cancer Treatment. <i>Radiation Research</i> , 2017, 188, 123-143.	0.7	42
138	Stability of radiomic features of apparent diffusion coefficient (ADC) maps for locally advanced rectal cancer in response to image pre-processing. <i>Physica Medica</i> , 2019, 61, 44-51.	0.4	42
139	Machine learning helps identifying volume-confounding effects in radiomics. <i>Physica Medica</i> , 2020, 71, 24-30.	0.4	42
140	Wide-field tissue polarimetry allows efficient localized mass spectrometry imaging of biological tissues. <i>Chemical Science</i> , 2016, 7, 2162-2169.	3.7	41
141	Radiological tumour classification across imaging modality and histology. <i>Nature Machine Intelligence</i> , 2021, 3, 787-798.	8.3	41
142	The use of human factors methods to identify and mitigate safety issues in radiation therapy. <i>Radiotherapy and Oncology</i> , 2010, 97, 596-600.	0.3	40
143	MR-guided Prostate Biopsy for Planning of Focal Salvage after Radiation Therapy. <i>Radiology</i> , 2015, 274, 181-191.	3.6	40
144	Applying usability heuristics to radiotherapy systems. <i>Radiotherapy and Oncology</i> , 2012, 102, 142-147.	0.3	38

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145	Cone Beam Computed Tomography Image Guidance System for a Dedicated Intracranial Radiosurgery Treatment Unit. <i>International Journal of Radiation Oncology Biology Physics</i> , 2013, 85, 243-250.	0.4	38
146	In Vivo Optical Imaging of Tumor and Microvascular Response to Ionizing Radiation. <i>PLoS ONE</i> , 2012, 7, e42133.	1.1	38
147	How Advances in Imaging Will Affect Precision Radiation Oncology. <i>International Journal of Radiation Oncology Biology Physics</i> , 2018, 101, 292-298.	0.4	37
148	A Novel Minimally Invasive Technique to Create a Rabbit VX2 Lung Tumor Model for Nano-Sized Image Contrast and Interventional Studies. <i>PLoS ONE</i> , 2013, 8, e67355.	1.1	37
149	Global Task Force on Radiotherapy for Cancer Control. <i>Lancet Oncology</i> , The, 2015, 16, 1144-1146.	5.1	36
150	Suitability of radiochromic medium for real-time optical measurements of ionizing radiation dose. <i>Medical Physics</i> , 2005, 32, 1140-1155.	1.6	34
151	Dosimetric variation due to the photon beam energy in the small animal irradiation: A Monte Carlo study. <i>Medical Physics</i> , 2010, 37, 5322-5329.	1.6	34
152	Autologous Transplantation of Lentivector/Acid Ceramidase Transduced Hematopoietic Cells in Nonhuman Primates. <i>Human Gene Therapy</i> , 2011, 22, 679-687.	1.4	34
153	Use of three-dimensional radiation therapy planning tools and intraoperative ultrasound to evaluate high dose rate prostate brachytherapy implants. <i>International Journal of Radiation Oncology Biology Physics</i> , 1999, 43, 571-578.	0.4	33
154	Image-Guided Radiation Therapy: From Concept to Practice. <i>Seminars in Radiation Oncology</i> , 2007, 17, 243-244.	1.0	33
155	The need to expand global access to radiotherapy. <i>Lancet Oncology</i> , The, 2014, 15, 378-380.	5.1	32
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