

David A Jaffray

List of Publications by Year in Descending Order

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Version: 2023-06-06

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

340
papers

18,185
citations

71
h-index

125
g-index

367
ext. papers

20,491
ext. citations

4.3
avg, IF

6.74
L-index

#	Paper	IF	Citations
340	Phantom Validation of a Conservation of Activity-Based Partial Volume Correction Method for Arterial Input Function in Dynamic PET Imaging.. <i>Tomography</i> , 2022 , 8, 842-857	3	
339	Noise-Based Image Harmonization Significantly Increases Repeatability and Reproducibility of Radiomics Features in PET Images: A Phantom Study.. <i>Tomography</i> , 2022 , 8, 1113-1128	3	1
338	Chronic Lymphocytic Leukemia Progression Diagnosis with Intrinsic Cellular Patterns via Unsupervised Clustering. <i>Cancers</i> , 2022 , 14, 2398	6.3	1
337	Evaluating an Image-Guided Operating Room with Cone Beam CT for Skull Base Surgery. <i>Journal of Neurological Surgery, Part B: Skull Base</i> , 2021 , 82, e306-e314	1.5	2
336	Cancer Needs a Robust "Metadata Supply Chain" to Realize the Promise of Artificial Intelligence. <i>Cancer Research</i> , 2021 , 81, 5810-5812	9.6	0
335	Impact of PET scanner non-linearity on the estimation of hypoxic fraction in cervical cancer patients. <i>Physica Medica</i> , 2021 , 93, 1-7	2.2	1
334	Incorporating cross-voxel exchange into the analysis of dynamic contrast-enhanced imaging data: theory, simulations and experimental results. <i>Physics in Medicine and Biology</i> , 2021 , 66,	3.6	1
333	Flat-panel conebeam CT in the clinic: history and current state. <i>Journal of Medical Imaging</i> , 2021 , 8, 052115	11.5	0
332	Assessment of a liposomal CT/optical contrast agent for image-guided head and neck surgery. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2021 , 32, 102327	5.8	2
331	In the Era of Deep Learning, Why Reconstruct an Image at All?. <i>Journal of the American College of Radiology</i> , 2021 , 18, 170-173	3.3	4
330	Radiological tumor classification across imaging modality and histology. <i>Nature Machine Intelligence</i> , 2021 , 3, 787-798	21.6	9
329	Artificial intelligence strategy integrating morphologic and architectural biomarkers provides robust diagnostic accuracy for disease progression in chronic lymphocytic leukemia. <i>Journal of Pathology</i> , 2021 ,	9.1	8
328	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	9.9	7
327	[F]DCFPyL PET-MRI/CT for unveiling a molecularly defined oligorecurrent prostate cancer state amenable for curative-intent ablative therapy: study protocol for a phase II trial. <i>BMJ Open</i> , 2020 , 10, e035959	2.9	3
326	Artificial intelligence-based clinical decision support in modern medical physics: Selection, acceptance, commissioning, and quality assurance. <i>Medical Physics</i> , 2020 , 47, e228-e235	4.2	30
325	User-controlled pipelines for feature integration and head and neck radiation therapy outcome predictions. <i>Physica Medica</i> , 2020 , 70, 145-152	2.2	6
324	Machine learning helps identifying volume-confounding effects in radiomics. <i>Physica Medica</i> , 2020 , 71, 24-30	2.2	18

323	An artificial neural network to model response of a radiotherapy beam monitoring system. <i>Medical Physics</i> , 2020 , 47, 1983-1994	4.2	4
322	Quantifying Reoxygenation in Pancreatic Cancer During Stereotactic Body Radiotherapy. <i>Scientific Reports</i> , 2020 , 10, 1638	4.7	8
321	Cost-function testing methodology for image-based registration of endoscopy to CT images in the head and neck. <i>Physics in Medicine and Biology</i> , 2020 ,	3.6	2
320	4D-CT Attenuation Correction in Respiratory-Gated PET for Hypoxia Imaging: Is It Really Beneficial?. <i>Tomography</i> , 2020 , 6, 241-249	3	1
319	Automatic classification of dental artifact status for efficient image veracity checks: effects of image resolution and convolutional neural network depth. <i>Physics in Medicine and Biology</i> , 2020 , 65, 015005	3.6	7
318	Feasibility study of navigated endoscopy for the placement of high dose rate brachytherapy applicators in the esophagus and lung. <i>Medical Physics</i> , 2020 , 47, 917-926	4.2	2
317	External validation and transfer learning of convolutional neural networks for computed tomography dental artifact classification. <i>Physics in Medicine and Biology</i> , 2020 , 65, 035017	3.6	5
316	tissue pathology from spatially encoded mass spectrometry classifiers visualized in real time through augmented reality. <i>Chemical Science</i> , 2020 , 11, 8723-8735	9.1	9
315	Vision 2020: looking back and thinking forward on The Lancet Oncology Commissions. <i>Lancet Oncology, The</i> , 2020 , 21, 1144-1146	20.9	
314	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 ¹		16
313	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, The</i> , 2019 , 20, 915-923	20.9	21
312	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	2.2	16
311	Repeatability and reproducibility of MRI-based radiomic features in cervical cancer. <i>Radiotherapy and Oncology</i> , 2019 , 135, 107-114	1	68
310	Impact of high dose volumetric CT on PTV margin reduction in VMAT prostate radiotherapy. <i>Physics in Medicine and Biology</i> , 2019 , 64, 065017	3.6	1
309	The image-guided operating room-Utility and impact on surgeon's performance in the head and neck surgery. <i>Head and Neck</i> , 2019 , 41, 3372-3382	4.1	9
308	The transformation of radiation oncology using real-time magnetic resonance guidance: A review. <i>European Journal of Cancer</i> , 2019 , 122, 42-52	4.4	66
307	Intraoperative Near-Infrared Fluorescence-Guided Peripheral Lung Tumor Localization in Rabbit Models. <i>Annals of Thoracic Surgery</i> , 2019 , 107, 248-256	2.6	6
306	Professional implications of introducing artificial intelligence in healthcare: an evaluation using radiation medicine as a testing ground. <i>Journal of Radiotherapy in Practice</i> , 2019 , 18, 5-9	0.3	9

305	Vulnerabilities of radiomic signature development: The need for safeguards. <i>Radiotherapy and Oncology</i> , 2019 , 130, 2-9	1	137
304	Administration of Hypoxia-Activated Prodrug Evofosfamide after Conventional Adjuvant Therapy Enhances Therapeutic Outcome and Targets Cancer-Initiating Cells in Preclinical Models of Colorectal Cancer. <i>Clinical Cancer Research</i> , 2018 , 24, 2116-2127	12.3	14
303	2D-3D registration for cranial radiation therapy using a 3D kV CBCT and a single limited field-of-view 2D kV radiograph. <i>Medical Physics</i> , 2018 , 45, 1794-1810	4.2	4
302	How Advances in Imaging Will Affect Precision Radiation Oncology. <i>International Journal of Radiation Oncology Biology Physics</i> , 2018 , 101, 292-298	0.8	24
301	Quality control methods for linear accelerator radiation and mechanical axes alignment. <i>Medical Physics</i> , 2018 , 45, 2388-2398	4.2	3
300	Monte Carlo analysis of beam blocking grid design parameters: Scatter estimation and the importance of electron backscatter. <i>Medical Physics</i> , 2018 , 45, 1059-1070	4.2	2
299	Serial 4DCT/4DPET imaging to predict and monitor response for locally-advanced non-small cell lung cancer chemo-radiotherapy. <i>Radiotherapy and Oncology</i> , 2018 , 126, 347-354	1	10
298	Altered brain morphology after focal radiation reveals impact of off-target effects: implications for white matter development and neurogenesis. <i>Neuro-Oncology</i> , 2018 , 20, 788-798	1	10
297	Measurement of Tumor Hypoxia in Patients With Locally Advanced Cervical Cancer Using Positron Emission Tomography with F-Fluoroazomyin Arabinoside. <i>International Journal of Radiation Oncology Biology Physics</i> , 2018 , 102, 1202-1209	0.8	9
296	Radiation and Heat Improve the Delivery and Efficacy of Nanotherapeutics by Modulating Intratumoral Fluid Dynamics. <i>ACS Nano</i> , 2018 , 12, 7583-7600	16.4	42
295	A mixed-integer optimization approach for homogeneous magnet design 2018 , 06, 49-58		2
294	Research and innovation in global cancer control. <i>The Lancet Global Health</i> , 2018 , 6, S1-S2	12	1
293	Dosimetric impact of intrafraction changes in MR-guided high-dose-rate (HDR) brachytherapy for prostate cancer. <i>Brachytherapy</i> , 2018 , 17, 59-67	1.3	3
292	The Use of Quantitative Imaging in Radiation Oncology: A Quantitative Imaging Network (QIN) Perspective. <i>International Journal of Radiation Oncology Biology Physics</i> , 2018 , 102, 1219-1235	0.8	17
291	Spatiotemporal assessment of spontaneous metastasis formation using multimodal in vivo imaging in HER2+ and triple negative metastatic breast cancer xenograft models in mice. <i>PLoS ONE</i> , 2018 , 13, e0196892	3.6	5
290	Cone-Beam Computed Tomography-Guided Navigation in Complex Osteotomies Improves Accuracy at All Competence Levels: A Study Assessing Accuracy and Reproducibility of Joint-Sparing Bone Cuts. <i>Journal of Bone and Joint Surgery - Series A</i> , 2018 , 100, e67	5.4	12
289	Spatial frequency performance limitations of radiation dose optimization and beam positioning. <i>Physics in Medicine and Biology</i> , 2018 , 63, 125006	3.6	1
288	Gold nanoparticles for applications in cancer radiotherapy: Mechanisms and recent advancements. <i>Advanced Drug Delivery Reviews</i> , 2017 , 109, 84-101	17.9	454

287	Radiation effects on the tumor microenvironment: Implications for nanomedicine delivery. <i>Advanced Drug Delivery Reviews</i> , 2017 , 109, 119-130	17.9	94
286	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	2.8	33
285	A novel field emission microscopy method to study field emission characteristics of freestanding carbon nanotube arrays. <i>Nanotechnology</i> , 2017 , 28, 155704	3.3	8
284	The correction of time and temperature effects in MR-based 3D Fricke xylene orange dosimetry. <i>Physics in Medicine and Biology</i> , 2017 , 62, 3221-3236	3.6	3
283	Improved outcomes with dose escalation in localized prostate cancer treated with precision image-guided radiotherapy. <i>Radiotherapy and Oncology</i> , 2017 , 123, 459-465	1	10
282	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	4.2	31
281	The Exploitation of Low-Energy Electrons in Cancer Treatment. <i>Radiation Research</i> , 2017 , 188, 123-143	2.8	33
280	Monte Carlo simulation of radiation transport and dose deposition from locally released gold nanoparticles labeled with In, Lu or Y incorporated into tissue implantable depots. <i>Physics in Medicine and Biology</i> , 2017 , 62, 8581-8599	3.6	9
279	Voxel-by-voxel correlation between radiologically radiation induced lung injury and dose after image-guided, intensity modulated radiotherapy for lung tumors. <i>Physica Medica</i> , 2017 , 42, 150-156	2.2	14
278	Impact of tissue transport on PET hypoxia quantification in pancreatic tumours. <i>EJNMMI Research</i> , 2017 , 7, 101	3.4	4
277	Coulomb explosion of vertically aligned carbon nanofibre induced by field electron emission. <i>RSC Advances</i> , 2017 , 7, 40470-40479	3.6	1
276	Evaluation of high dose volumetric CT to reduce inter-observer delineation variability and PTV margins for prostate cancer radiotherapy. <i>Radiotherapy and Oncology</i> , 2017 , 125, 118-123	1	13
275	Tumor microenvironment determines response to a heat-activated thermosensitive liposome formulation of cisplatin in cervical carcinoma. <i>Journal of Controlled Release</i> , 2017 , 262, 182-191	11.4	10
274	Incorporation of delivery times in stereotactic radiosurgery treatment optimization. <i>Journal of Global Optimization</i> , 2017 , 69, 103-115	1.5	4
273	Radiosensitization by gold nanoparticles: Will they ever make it to the clinic?. <i>Radiotherapy and Oncology</i> , 2017 , 124, 344-356	1	93
272	Global impact of radiotherapy in oncology: Saving one million lives by 2035. <i>Radiotherapy and Oncology</i> , 2017 , 125, 175-177	1	17
271	Fully automated treatment planning for head and neck radiotherapy using a voxel-based dose prediction and dose mimicking method. <i>Physics in Medicine and Biology</i> , 2017 , 62, 5926-5944	3.6	79
270	Developing Technologies for Small Animal Radiotherapy. <i>Imaging in Medical Diagnosis and Therapy</i> , 2016 , 329-351		

269	Nanomedicine and tumor heterogeneity: Concept and complex reality. <i>Nano Today</i> , 2016 , 11, 402-414	17.7	37
268	Quantifying hypoxia in human cancers using static PET imaging. <i>Physics in Medicine and Biology</i> , 2016 , 61, 7957-7974	3.6	9
267	Assessment of organs-at-risk contouring practices in radiosurgery institutions around the world - The first initiative of the OAR Standardization Working Group. <i>Radiotherapy and Oncology</i> , 2016 , 121, 180-186	1	13
266	Spatial Measurements of Perfusion, Interstitial Fluid Pressure and Liposomes Accumulation in Solid Tumors. <i>Journal of Visualized Experiments</i> , 2016 ,	1.5	6
265	Thermosensitive liposomal cisplatin in combination with local hyperthermia results in tumor growth delay and changes in tumor microenvironment in xenograft models of lung carcinoma. <i>Journal of Drug Targeting</i> , 2016 , 24, 865-877	5.2	13
264	Development and Implementation of an Electronic Learning Module For Volumetric Image-Guided Radiation Therapy. <i>Journal of Medical Imaging and Radiation Sciences</i> , 2016 , 47, 43-48	0.6	6
263	Measurement of Tumor Hypoxia in Patients with Advanced Pancreatic Cancer Based on 18F-Fluoroazomyin Arabinoside Uptake. <i>Journal of Nuclear Medicine</i> , 2016 , 57, 361-6	8.6	36
262	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, The</i> , 2016 , 387, 2133-2144	36.2	118
261	Wide-field tissue polarimetry allows efficient localized mass spectrometry imaging of biological tissues. <i>Chemical Science</i> , 2016 , 7, 2162-2169	9.1	35
260	In Vitro and In Vivo Studies of a New Class of Anticancer Molecules for Targeted Radiotherapy of Cancer. <i>Molecular Cancer Therapeutics</i> , 2016 , 15, 640-50	5.8	10
259	Feature-based MRI data fusion for cardiac arrhythmia studies. <i>Computers in Biology and Medicine</i> , 2016 , 72, 13-21	6.7	4
258	Improved accuracy of quantitative parameter estimates in dynamic contrast-enhanced CT study with low temporal resolution. <i>Medical Physics</i> , 2016 , 43, 388	4.2	1
257	Fiber optic-based radiochromic dosimetry. <i>Imaging in Medical Diagnosis and Therapy</i> , 2016 , 293-314		2
256	Preliminary Evaluation of a Novel Thermoplastic Mask System with Intra-fraction Motion Monitoring for Future Use with Image-Guided Gamma Knife. <i>Cureus</i> , 2016 , 8, e531	1.1	19
255	Direct Lymph Node Vaccination of Lentivector/Prostate-Specific Antigen is Safe and Generates Tissue-Specific Responses in Rhesus Macaques. <i>Biomedicines</i> , 2016 , 4,	4.6	2
254	Robotic path-finding in inverse treatment planning for stereotactic radiosurgery with continuous dose delivery. <i>Medical Physics</i> , 2016 , 43, 4545	4.2	4
253	Technical Note: Enhancing the surface dose using a weak longitudinal magnetic field. <i>Medical Physics</i> , 2016 , 43, 2927-2932	4.2	1
252	How long does it take? An analysis of volumetric image assessment time. <i>Radiotherapy and Oncology</i> , 2016 , 119, 150-3	1	15

251	The Use of Cone Beam Computed Tomography for Image Guided Gamma Knife Stereotactic Radiosurgery: Initial Clinical Evaluation. <i>International Journal of Radiation Oncology Biology Physics</i> , 2016 , 96, 214-20	0.8	25
250	Cyclophosphamide-Mediated Tumor Priming for Enhanced Delivery and Antitumor Activity of HER2-Targeted Liposomal Doxorubicin (MM-302). <i>Molecular Cancer Therapeutics</i> , 2015 , 14, 2060-71	5.8	45
249	Radiosurgery Nomenclature: A Confusion of Tongues. <i>International Journal of Radiation Oncology Biology Physics</i> , 2015 , 92, 512-3	0.8	3
248	Technology for Innovation in Radiation Oncology. <i>International Journal of Radiation Oncology Biology Physics</i> , 2015 , 93, 485-92	0.8	43
247	The intra-tumoral relationship between microcirculation, interstitial fluid pressure and liposome accumulation. <i>Journal of Controlled Release</i> , 2015 , 211, 163-70	11.4	52
246	Quantitative Imaging in Radiation Oncology: An Emerging Science and Clinical Service. <i>Seminars in Radiation Oncology</i> , 2015 , 25, 292-304	5.4	15
245	Whole-body organ-level and kidney micro-dosimetric evaluations of (64)Cu-loaded HER2/ErbB2-targeted liposomal doxorubicin ((64)Cu-MM-302) in rodents and primates. <i>EJNMMI Research</i> , 2015 , 5, 24	3.4	12
244	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, 101-11	11.4	65
243	Global Task Force on Radiotherapy for Cancer Control. <i>Lancet Oncology, The</i> , 2015 , 16, 1144-6	20.9	22
242	Expanding global access to radiotherapy. <i>Lancet Oncology, The</i> , 2015 , 16, 1153-86	20.9	457
241	Treatment age, dose and sex determine neuroanatomical outcome in irradiated juvenile mice. <i>Radiation Research</i> , 2015 , 183, 541-9	2.8	18
240	Contrast Agent Mass Spectrometry Imaging Reveals Tumor Heterogeneity. <i>Analytical Chemistry</i> , 2015 , 87, 7683-9	7.7	28
239	Performing radiation therapy research using the open-source SlicerRT toolkit. <i>IFMBE Proceedings</i> , 2015 , 622-625	0.2	2
238	A multimodal nano agent for image-guided cancer surgery. <i>Biomaterials</i> , 2015 , 67, 160-8	15.2	40
237	Automated voxel-based analysis of volumetric dynamic contrast-enhanced CT data improves measurement of serial changes in tumor vascular biomarkers. <i>International Journal of Radiation Oncology Biology Physics</i> , 2015 , 91, 48-57	0.8	14
236	A gradient-loadable (64)Cu-chelator for quantifying tumor deposition kinetics of nanoliposomal therapeutics by positron emission tomography. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2015 , 11, 155-65	5.8	41
235	Skeletonization for isocentre selection in Gamma Knife [®] Perfexion [®] Top. 2015 , 23, 369-385	1.2	4
234	Automatic learning-based beam angle selection for thoracic IMRT. <i>Medical Physics</i> , 2015 , 42, 1992-2005	4.2	16

233	Custom-designed Laser-based Heating Apparatus for Triggered Release of Cisplatin from Thermosensitive Liposomes with Magnetic Resonance Image Guidance. <i>Journal of Visualized Experiments</i> , 2015 , e53055	1.5	4
232	Longitudinal tumor hypoxia imaging with [(18)F]FAZA-PET provides early prediction of nanoliposomal irinotecan (nal-IRI) treatment activity. <i>EJNMMI Research</i> , 2015 , 5, 57	3.4	6
231	Online virtual isocenter based radiation field targeting for high performance small animal microirradiation. <i>Physics in Medicine and Biology</i> , 2015 , 60, 9031-46	3.6	6
230	Minimally invasive electro-magnetic navigational bronchoscopy-integrated near-infrared-guided sentinel lymph node mapping in the porcine lung. <i>PLoS ONE</i> , 2015 , 10, e0126945	3.6	7
229	MR-guided prostate biopsy for planning of focal salvage after radiation therapy. <i>Radiology</i> , 2015 , 274, 181-91	19.8	34
228	Ambient Mass Spectrometry Imaging with Picosecond Infrared Laser Ablation Electrospray Ionization (PIR-LAESI). <i>Analytical Chemistry</i> , 2015 , 87, 12071-9	7.7	40
227	Noise distribution and denoising of current density images. <i>Journal of Medical Imaging</i> , 2015 , 2, 024005	2.5	2
226	Readout-segmented echo-planar diffusion-weighted imaging improves geometric performance for image-guided radiation therapy of pelvic tumors. <i>Radiotherapy and Oncology</i> , 2015 , 117, 525-31	1	17
225	Localization of pulmonary nodules using navigation bronchoscope and a near-infrared fluorescence thoracoscope. <i>Annals of Thoracic Surgery</i> , 2015 , 99, 224-30	2.6	72
224	Navigated pelvic osteotomy and tumor resection: a study assessing the accuracy and reproducibility of resection planes in Sawbones and cadavers. <i>Journal of Bone and Joint Surgery - Series A</i> , 2015 , 97, 40-6	5.4	45
223	Radiation Therapy for Cancer 2015 , 239-247		18
222	A novel method to quantify and compare anatomical shape: application in cervix cancer radiotherapy. <i>Physics in Medicine and Biology</i> , 2014 , 59, 2687-704	3.6	5
221	Dosimetrically triggered adaptive intensity modulated radiation therapy for cervical cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2014 , 90, 147-54	0.8	26
220	Automatic learning-based selection of beam angles in radiation therapy of lung cancer 2014 ,		3
219	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	11.4	56
218	The need to expand global access to radiotherapy. <i>Lancet Oncology, The</i> , 2014 , 15, 378-80	20.9	27
217	Hybrid adaptive radiotherapy with on-line MRI in cervix cancer IMRT. <i>Radiotherapy and Oncology</i> , 2014 , 110, 323-8	1	36
216	A facility for magnetic resonance-guided radiation therapy. <i>Seminars in Radiation Oncology</i> , 2014 , 24, 193-5	5.4	57

215	Multileaf collimator performance monitoring and improvement using semiautomated quality control testing and statistical process control. <i>Medical Physics</i> , 2014 , 41, 121713	4.2	6
214	Nanotechnology for Multimodality Imaging: Applications in Disease Detection and Treatment Guidance. <i>Frontiers in Nanobiomedical Research</i> , 2014 , 145-193		
213	Development of a Multi-Centre Clinical Trial Data Archiving and Analysis Platform for Functional Imaging. <i>Journal of Physics: Conference Series</i> , 2014 , 489, 012089	0.2	
212	Hypoxia and cellular localization influence the radiosensitizing effect of gold nanoparticles (AuNPs) in breast cancer cells. <i>Radiation Research</i> , 2014 , 182, 475-88	2.8	45
211	Integration of optical imaging with a small animal irradiator. <i>Medical Physics</i> , 2014 , 41, 102701	4.2	18
210	Harmonic analysis for the characterization and correction of geometric distortion in MRI. <i>Medical Physics</i> , 2014 , 41, 112303	4.2	18
209	A surgical navigation system for non-contact diffuse optical tomography and intraoperative cone-beam CT 2014 ,		2
208	Sci-Fri PM: Topics - 05: Experience with linac simulation software in a teaching environment. <i>Medical Physics</i> , 2014 , 41, 25-25	4.2	
207	Macromolecule extravasation-xenograft size matters: a systematic study using probe-based confocal laser endomicroscopy (pCLE). <i>Molecular Imaging and Biology</i> , 2013 , 15, 693-702	3.7	5
206	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, 1878-84	6.2	133
205	Safety considerations for IGRT: Executive summary. <i>Practical Radiation Oncology</i> , 2013 , 3, 167-170	2.8	44
204	Self-heating Schottky emission from a ballasted carbon nanotube array. <i>Carbon</i> , 2013 , 58, 87-91	10.1	6
203	Multicenter collaborative quality assurance program for the province of Ontario, Canada: first-year results. <i>International Journal of Radiation Oncology Biology Physics</i> , 2013 , 86, 164-9	0.8	5
202	Imaging biomarker dynamics in an intracranial murine glioma study of radiation and antiangiogenic therapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2013 , 85, 805-12	0.8	27
201	Design and fabrication of carbon nanotube field-emission cathode with coaxial gate and ballast resistor. <i>Small</i> , 2013 , 9, 3385-9	10.8	14
200	Tumor perfusion imaging predicts the intra-tumoral accumulation of liposomes. <i>Journal of Controlled Release</i> , 2013 , 172, 351-357	11.4	43
199	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, 243-50	0.8	29
198	The Design and Fabrication of Carbon-Nanotube-Based Field Emission X-Ray Cathode With Ballast Resistor. <i>IEEE Transactions on Electron Devices</i> , 2013 , 60, 464-470	2.7	13

197	In reply to Cheung. <i>International Journal of Radiation Oncology Biology Physics</i> , 2013 , 85, 291-2	0.8	
196	Neoplastic cell response to tiopronin-coated gold nanoparticles. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2013 , 9, 264-73	5.8	13
195	Reply to the comment on Monte Carlo simulation on a gold nanoparticle irradiated by electron beams. <i>Physics in Medicine and Biology</i> , 2013 , 58, 2003-2005	3.6	3
194	Automated treatment planning for a dedicated multi-source intra-cranial radiosurgery treatment unit accounting for overlapping structures and dose homogeneity. <i>Medical Physics</i> , 2013 , 40, 091715	4.2	8
193	Changes in apparent diffusion coefficient and T2 relaxation during radiotherapy for prostate cancer. <i>Journal of Magnetic Resonance Imaging</i> , 2013 , 37, 909-16	5.4	60
192	A method for online verification of adapted fields using an independent dose monitor. <i>Medical Physics</i> , 2013 , 40, 072104	4.2	12
191	Two-dimensional inverse planning and delivery with a preclinical image guided microirradiator. <i>Medical Physics</i> , 2013 , 40, 101709	4.2	21
190	Panoramic imaging of Gamma Knife is an essential test after source exchange. <i>Medical Physics</i> , 2013 , 40, 097101	4.2	2
189	Comparison of Computed Tomography and Optical Image Based Assessment of Liposome Distribution. <i>Molecular Imaging</i> , 2013 , 12, 7290.2012.00028	3.6	8
188	3D image-guided robotic needle positioning system for small animal interventions. <i>Medical Physics</i> , 2013 , 40, 011909	4.2	7
187	A mathematical model of the enhanced permeability and retention effect for liposome transport in solid tumors. <i>PLoS ONE</i> , 2013 , 8, e81157	3.6	58
186	Compensator models for fluence field modulated computed tomography. <i>Medical Physics</i> , 2013 , 40, 121209	4.2	13
185	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	3.6	33
184	Optimization Methods for Large-Scale Radiotherapy Problems. <i>Springer Optimization and Its Applications</i> , 2013 , 1-20	0.4	1
183	Long Circulation and Tumor Accumulation 2013 , 543-571		2
182	Comparison of computed tomography- and optical image-based assessment of liposome distribution. <i>Molecular Imaging</i> , 2013 , 12, 148-60	3.6	4
181	Simultaneous nonrigid registration, segmentation, and tumor detection in MRI guided cervical cancer radiation therapy. <i>IEEE Transactions on Medical Imaging</i> , 2012 , 31, 1213-27	11	21
180	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, 520-6	0.8	67

179	A one-step cone-beam CT-enabled planning-to-treatment model for palliative radiotherapy-from development to implementation. <i>International Journal of Radiation Oncology Biology Physics</i> , 2012 , 84, 834-40	0.8	15
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