

John A Antolak

List of Publications by Year in descending order

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83
papers

4,012
citations

236833

25
h-index

114418

63
g-index

85
all docs

85
docs citations

85
times ranked

2543
citing authors

#	ARTICLE	IF	CITATIONS
1	Prostate cancer radiation dose response: results of the M. D. Anderson phase III randomized trial. <i>International Journal of Radiation Oncology Biology Physics</i> , 2002, 53, 1097-1105.	0.4	1,294
2	Preliminary Results of a Randomized Radiotherapy Dose-Escalation Study Comparing 70 Gy With 78 Gy for Prostate Cancer. <i>Journal of Clinical Oncology</i> , 2000, 18, 3904-3911.	0.8	479
3	Complications from radiotherapy dose escalation in prostate cancer: preliminary results of a randomized trial. <i>International Journal of Radiation Oncology Biology Physics</i> , 2000, 48, 635-642.	0.4	379
4	Prostate target volume variations during a course of radiotherapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 1998, 42, 661-672.	0.4	209
5	Prostate biopsy status and PSA nadir level as early surrogates for treatment failure: analysis of a prostate cancer randomized radiation dose escalation trial. <i>International Journal of Radiation Oncology Biology Physics</i> , 2002, 54, 677-685.	0.4	133
6	Recommendations for clinical electron beam dosimetry: Supplement to the recommendations of Task Group 25. <i>Medical Physics</i> , 2009, 36, 3239-3279.	1.6	126
7	Patient-specific point dose measurement for IMRT monitor unit verification. <i>International Journal of Radiation Oncology Biology Physics</i> , 2003, 56, 867-877.	0.4	100
8	The impact of temporal inaccuracies on 4DCT image quality. <i>Medical Physics</i> , 2007, 34, 1615-1622.	1.6	76
9	Dosimetry of a prototype retractable eMLC for fixed-beam electron therapy. <i>Medical Physics</i> , 2004, 31, 443-462.	1.6	73
10	A custom three-dimensional electron bolus technique for optimization of postmastectomy irradiation. <i>International Journal of Radiation Oncology Biology Physics</i> , 2001, 51, 1142-1151.	0.4	70
11	Planning target volumes for radiotherapy: how much margin is needed?. <i>International Journal of Radiation Oncology Biology Physics</i> , 1999, 44, 1165-1170.	0.4	67
12	Electron dose distributions in experimental phantoms: a comparison with 2D pencil beam calculations. <i>Physics in Medicine and Biology</i> , 1987, 32, 1073-1086.	1.6	66
13	Monitor unit calculations for external photon and electron beams: Report of the AAPM Therapy Physics Committee Task Group No. 71. <i>Medical Physics</i> , 2014, 41, 031501.	1.6	63
14	Phase I Study of Concomitant Gemcitabine and IMRT for Patients with Unresectable Adenocarcinoma of the Pancreatic Head. <i>International Journal of Gastrointestinal Cancer</i> , 2001, 30, 123-132.	0.4	57
15	Electron conformal radiotherapy using bolus and intensity modulation. <i>International Journal of Radiation Oncology Biology Physics</i> , 2002, 53, 1023-1037.	0.4	56
16	Comprehensive evaluation of a commercial macro Monte Carlo electron dose calculation implementation using a standard verification data set. <i>Medical Physics</i> , 2006, 33, 1540-1551.	1.6	55
17	Experimental evaluation of a 2D and 3D electron pencil beam algorithm. <i>Physics in Medicine and Biology</i> , 1989, 34, 1179-1194.	1.6	52
18	Displacement-based binning of time-dependent computed tomography image data sets. <i>Medical Physics</i> , 2005, 33, 235-246.	1.6	52

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19	Utilization of Thermoluminescent Dosimetry in Total Skin Electron Beam Radiotherapy of Mycosis Fungoides. International Journal of Radiation Oncology Biology Physics, 1998, 40, 101-108.	0.4	50
20	Using Monte Carlo methods to commission electron beams: A feasibility study. Medical Physics, 2002, 29, 771-786.	1.6	46
21	Respiration-correlated treatment delivery using feedback-guided breath hold: A technical study. Medical Physics, 2004, 32, 175-181.	1.6	44
22	Correlation between Lung Fibrosis and Radiation Therapy Dose after Concurrent Radiation Therapy and Chemotherapy for Limited Small Cell Lung Cancer. Radiology, 2001, 221, 614-622.	3.6	43
23	The effect of scattering foil parameters on electron-beam Monte Carlo calculations. Medical Physics, 2001, 28, 2527-2534.	1.6	36
24	Dose properties of a laser accelerated electron beam and prospects for clinical application. Medical Physics, 2004, 31, 2053-2067.	1.6	33
25	Treatment planning for metals using an extended CT number scale. Journal of Applied Clinical Medical Physics, 2016, 17, 179-188.	0.8	29
26	PTV margin determination in conformal SRT of intracranial lesions. Journal of Applied Clinical Medical Physics, 2002, 3, 176-189.	0.8	23
27	Fetal dose estimates for electron-beam treatment to the chest wall of a pregnant patient. Medical Physics, 1998, 25, 2388-2391.	1.6	22
28	A measured data set for evaluating electron beam dose algorithms. Medical Physics, 2001, 28, 950-958.	1.6	22
29	Monte Carlo techniques should replace analytical methods for estimating dose distributions in radiotherapy treatment planning. Medical Physics, 2001, 28, 123-126.	1.6	21
30	A novel platform simulating irregular motion to enhance assessment of respiration-correlated radiation therapy procedures. Journal of Applied Clinical Medical Physics, 2005, 6, 13-21.	0.8	18
31	Evaluation of the accuracy of fetal dose estimates using TG-36 data. Medical Physics, 2007, 34, 1193-1197.	1.6	18
32	Total skin electron therapy in the lying-on-the-floor position using a customized flattening filter to accommodate frail patients. Journal of Applied Clinical Medical Physics, 2013, 14, 115-126.	0.8	18
33	PTV margin determination in conformal SRT of intracranial lesions. Journal of Applied Clinical Medical Physics, 2002, 3, 176.	0.8	15
34	Multiple scattering theory for total skin electron beam design. Medical Physics, 1998, 25, 851-859.	1.6	14
35	A novel platform simulating irregular motion to enhance assessment of respiration-correlated radiation therapy procedures. Journal of Applied Clinical Medical Physics, 2005, 6, 13-21.	0.8	14
36	Phantom Verification of AAA and Acuros Dose Calculations for Lung Cancer: Do Tumor Size and Regression Matter?. Practical Radiation Oncology, 2019, 9, 29-37.	1.1	13

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37	Evaluation of film and thermoluminescent dosimetry of high-energy electron beams in heterogeneous phantoms. <i>Medical Physics</i> , 1992, 19, 317-323.	1.6	12
38	Dual scattering foil design for poly-energetic electron beams. <i>Physics in Medicine and Biology</i> , 2005, 50, 755-767.	1.6	9
39	Modeling skin collimation using the electron pencil beam redefinition algorithm. <i>Medical Physics</i> , 2005, 32, 3409-3418.	1.6	8
40	Mathematical solutions of the TG-43 geometry function for curved line, ring, disk, sphere, dome and annulus sources, and applications for quality assurance. <i>Physics in Medicine and Biology</i> , 2011, 56, 5429-5444.	1.6	8
41	Evaluation of the Eclipse eMC algorithm for bolus electron conformal therapy using a standard verification dataset. <i>Journal of Applied Clinical Medical Physics</i> , 2016, 17, 52-60.	0.8	8
42	Cadaveric verification of the Eclipse AAA algorithm for spine SBRT treatments with titanium hardware. <i>Practical Radiation Oncology</i> , 2016, 6, 131-141.	1.1	8
43	Application of the electron pencil beam redefinition algorithm to electron arc therapy. <i>Medical Physics</i> , 2006, 33, 2369-2383.	1.6	7
44	Influence of source parameters on large-field electron beam profiles calculated using Monte Carlo methods. <i>Physics in Medicine and Biology</i> , 2009, 54, 105-116.	1.6	7
45	Verification of a two-dimensional pencil beam arc electron dose calculation algorithm. <i>Medical Physics</i> , 1993, 20, 1735-1742.	1.6	6
46	Clinical application of lying-on-the-floor total skin electron irradiation for frail patients with cutaneous lymphoma: An emphasis on the importance of in vivo dosimetry. <i>Advances in Radiation Oncology</i> , 2016, 1, 101-105.	0.6	6
47	The effect of coil geometry on the RF heating of saline phantoms: applications to in vivo NMR. <i>Physics in Medicine and Biology</i> , 1987, 32, 1417-1433.	1.6	5
48	Matchmaker, matchmaker, find me a match. <i>Journal of Applied Clinical Medical Physics</i> , 2015, 16, 1-3.	0.8	5
49	Radiation dose distributions for electron arc therapy using electrons of 6-20 MeV. <i>Physics in Medicine and Biology</i> , 1992, 37, 1375-1384.	1.6	4
50	Dose properties of x-ray beams produced by laser-wakefield-accelerated electrons. <i>Physics in Medicine and Biology</i> , 2005, 50, N1-N10.	1.6	4
51	Fludarabine Allows Dose Reduction for Total Body Irradiation in Pediatric Hematopoietic Stem Cell Transplantation. <i>International Journal of Radiation Oncology Biology Physics</i> , 2007, 68, 1140-1144.	0.4	4
52	Optimization of pencil beam widths for electron-beam dose calculations. <i>Medical Physics</i> , 1995, 22, 411-419.	1.6	3
53	The use of an extra-focal electron source to model collimator-scattered electrons using the pencil-beam redefinition algorithm. <i>Medical Physics</i> , 2002, 29, 2571-2583.	1.6	3
54	Calculating percent depth dose with the electron pencil-beam redefinition algorithm. <i>Journal of Applied Clinical Medical Physics</i> , 2007, 8, 61-75.	0.8	3

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55	WE-C-AUD C-03: Segmented Field Electron Conformal Therapy Planning Algorithm. Medical Physics, 2008, 35, 2936-2936.	1.6	2
56	TH-D-AUD B-05: Electron Intensity Modulation for Mixed-Beam Radiation Therapy with An X-Ray Multi-Leaf Collimator. Medical Physics, 2008, 35, 2985-2985.	1.6	2
57	TH-A-BRCD-01: Electron Radiotherapy: Past, Present, and Future. Medical Physics, 2012, 39, 3979-3979.	1.6	2
58	Acquisition and display of radiation dose distributions using microcomputer technology. Medical Physics, 1988, 15, 924-929.	1.6	1
59	Three-dimensional treatment planning for central lymphatic irradiation. Medical Dosimetry, 1999, 24, 295-300.	0.4	1
60	Calculation of the 3-D dose distribution surrounding a 103Pd stent. Cardiovascular Radiation Medicine, 2001, 2, 181-190.	0.7	1
61	In response to Drs. Kagan and Schulz. International Journal of Radiation Oncology Biology Physics, 2003, 55, 1151-1152.	0.4	1
62	SU-FF-T-205: Ionization to Dose for Electron Beams: A Comparison of Three Approaches. Medical Physics, 2005, 32, 1997-1997.	1.6	1
63	SU-FF-T-288: Evaluation of a Commercial Macro Monte Carlo Electron Dose Calculation Algorithm. Medical Physics, 2005, 32, 2016-2016.	1.6	1
64	SU-FF-T-297: Systematic Uncertainties in a Commercial Monte Carlo Electron Treatment Planning Algorithm. Medical Physics, 2005, 32, 2018-2019.	1.6	1
65	Response to "Comment on "Optimization of pencil beam widths for electron-beam dose calculations" [Med. Phys. 22 , 411-419 (1995)]. Medical Physics, 1995, 22, 1443-1443.	1.6	0
66	2242 3D- conformal prostate radiotherapy: Minimizing the rectal dose by constrained simulated annealing. International Journal of Radiation Oncology Biology Physics, 1996, 36, 395.	0.4	0
67	In response to Drs. Millar and Williams. International Journal of Radiation Oncology Biology Physics, 2003, 55, 1461-1462.	0.4	0
68	Solutions to the TG-43 Geometry Function for Ring, Disk, Sphere, and Dome Sources. Brachytherapy, 2010, 9, S63-S64.	0.2	0
69	Cadaveric Verification of VMAT Dose Distributions for Spine SBRT Treatments With Titanium Implants. International Journal of Radiation Oncology Biology Physics, 2015, 93, E547-E548.	0.4	0
70	Automated Plan Check Software for HDR Brachytherapy. Brachytherapy, 2016, 15, S154-S155.	0.2	0
71	The Dark Side of the MedPhys Match. Journal of Applied Clinical Medical Physics, 2017, 18, 4-5.	0.8	0
72	A Monte Carlo method for commissioning electron beams. , 2000, , 449-451.		0

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73	Field-in-Field Tangent Technique Improves Radiation Dose Homogeneity in Breast Conservation. Cancer Journal (Sudbury, Mass), 2003, 9, 513.	1.0	0
74	SU-FF-T-271: Influence of Initial Pencil Beam Parameters On Large Non-Applicator Electron Field Profiles Calculated Using Monte Carlo Methods. Medical Physics, 2005, 32, 2012-2012.	1.6	0
75	SU-FF-T-326: Application of the Pencil-Beam Redefinition Algorithm to Electron Arc Therapy. Medical Physics, 2005, 32, 2025-2025.	1.6	0
76	SU-FF-T-330: Modeling Skin Collimation Using Electron Pencil-Beam Redefinition Algorithm. Medical Physics, 2005, 32, 2026-2026.	1.6	0
77	WE-C-ValA-01: Evaluation of Image Quality in 4DCT and Improving Temporal Accuracy. Medical Physics, 2006, 33, 2232-2232.	1.6	0
78	SU-FF-T-393: Source Measurement for Electron Monte Carlo Calculations. Medical Physics, 2006, 33, 2136-2136.	1.6	0
79	MO-EE-02: Incorporating Open Standards Into Online Medical Physics Education. Medical Physics, 2007, 34, 2531-2531.	1.6	0
80	SU-EE-04: Dual Focus Collimator Design Studies For Temporally Precise IMRT Delivery. Medical Physics, 2008, 35, 2637-2637.	1.6	0
81	SU-GG-T-83: A Scanning Photon Pencil Beam for Temporally Precise IMRT. Medical Physics, 2008, 35, 2745-2745.	1.6	0
82	TH-A-500-01: Electron Radiotherapy, Past, Present, and Future. Medical Physics, 2013, 40, 516-516.	1.6	0
83	SU-E-T-356: Accuracy of Eclipse Electron Macro Monte Carlo Dose Algorithm for Use in Bolus Electron Conformal Therapy. Medical Physics, 2014, 41, 306-306.	1.6	0