

Åsa Carlsson Tedgren

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4573741/publications.pdf>

Version: 2024-02-01

58
papers

1,171
citations

535685

17
h-index

445137

33
g-index

58
all docs

58
docs citations

58
times ranked

796
citing authors

#	ARTICLE	IF	CITATIONS
1	Monte Carlo characterization of high atomic number inorganic scintillators for in vivo dosimetry in ¹⁹² Ir brachytherapy. Medical Physics, 2022, 49, 4715-4730.	1.6	3
2	An audit of high dose-rate prostate brachytherapy treatment planning at six Swedish clinics. Journal of Contemporary Brachytherapy, 2021, 13, 59-71.	0.4	1
3	ACCURACY OF CT NUMBERS OBTAINED BY DIRA AND MONOENERGETIC PLUS ALGORITHMS IN DUAL-ENERGY COMPUTED TOMOGRAPHY. Radiation Protection Dosimetry, 2021, 195, 212-217.	0.4	0
4	Optimization in treatment planning of high dose-rate brachytherapy – Review and analysis of mathematical models. Medical Physics, 2021, 48, 2057-2082.	1.6	14
5	Impact of the I-value of diamond on the energy deposition in different beam qualities. Physics in Medicine and Biology, 2021, 66, .	1.6	2
6	SEMI-AUTOMATED 3D SEGMENTATION OF PELVIC REGION BONES IN CT VOLUMES FOR THE ANNOTATION OF MACHINE LEARNING DATASETS. Radiation Protection Dosimetry, 2021, 195, 172-176.	0.4	2
7	ON THE POSSIBILITY TO RESOLVE GADOLINIUM- AND CERIUM-BASED CONTRAST AGENTS FROM THEIR CT NUMBERS IN DUAL-ENERGY COMPUTED TOMOGRAPHY. Radiation Protection Dosimetry, 2021, 195, 225-231.	0.4	2
8	OPTIMAL SELECTION OF BASE MATERIALS FOR ACCURATE DUAL-ENERGY COMPUTED TOMOGRAPHY: COMPARISON BETWEEN THE ALVAREZ-MACOVSKI METHOD AND DIRA. Radiation Protection Dosimetry, 2021, 195, 218-224.	0.4	2
9	Source strength determination in iridium-192 and cobalt-60 brachytherapy: A European survey on the level of agreement between clinical measurements and manufacturer certificates. Physics and Imaging in Radiation Oncology, 2021, 19, 108-111.	1.2	2
10	Emerging technologies in brachytherapy. Physics in Medicine and Biology, 2021, 66, 23TR01.	1.6	6
11	Investigation of a synthetic diamond detector response in kilovoltage photon beams. Medical Physics, 2020, 47, 1268-1279.	1.6	7
12	Experimental assessment of a phosphor model for estimating the relative extrinsic efficiency in radioluminescent detectors. Physica Medica, 2020, 76, 117-124.	0.4	4
13	Segmentation of bones in medical dual-energy computed tomography volumes using the 3D U-Net. Physica Medica, 2020, 69, 241-247.	0.4	31
14	Development and assessment of a quality assurance device for radiation field-light field congruence testing in diagnostic radiology. Journal of Medical Imaging, 2020, 7, 063501.	0.8	1
15	DIRA-3D – a model-based iterative algorithm for accurate dual-energy dual-source 3D helical CT. Biomedical Physics and Engineering Express, 2019, 5, 065005.	0.6	2
16	A mathematical optimization model for spatial adjustments of dose distributions in high dose-rate brachytherapy. Physics in Medicine and Biology, 2019, 64, 225012.	1.6	7
17	Testing the methodology for a dosimetric end-to-end audit of IMRT/VMAT: results of IAEA multicentre and national studies. Acta Oncologica, 2019, 58, 1731-1739.	0.8	19
18	An extended dose-volume model in high dose-rate brachytherapy – Using mean-tail dose to reduce tumor underdosage. Medical Physics, 2019, 46, 2556-2566.	1.6	8

#	ARTICLE	IF	CITATIONS
19	GEC-ESTRO ACROP recommendations on calibration and traceability of LE-LDR photon-emitting brachytherapy sources at the hospital level. <i>Radiotherapy and Oncology</i> , 2019, 135, 120-129.	0.3	8
20	END-TO-END AUDIT: COMPARISON OF TLD AND LITHIUM FORMATE EPR DOSIMETRY. <i>Radiation Protection Dosimetry</i> , 2019, 186, 119-122.	0.4	1
21	Mathematical optimization of high dose-rate brachytherapy—derivation of a linear penalty model from a dose-volume model. <i>Physics in Medicine and Biology</i> , 2018, 63, 065011.	1.6	15
22	Suitability of microDiamond detectors for the determination of absorbed dose to water around high-dose-rate ¹⁹² Ir brachytherapy sources. <i>Medical Physics</i> , 2018, 45, 429-437.	1.6	11
23	Experience of using MOSFET detectors for dose verification measurements in an end-to-end 192 Ir brachytherapy quality assurance system. <i>Brachytherapy</i> , 2018, 17, 227-233.	0.2	7
24	Preventing Hot Spots in High Dose-Rate Brachytherapy. <i>Operations Research Proceedings: Papers of the Annual Meeting = Vorträge Der Jahrestagung / DGOR</i> , 2018, , 369-375.	0.1	2
25	A generic TG-186 shielded applicator for commissioning model-based dose calculation algorithms for high-dose-rate ¹⁹² Ir brachytherapy. <i>Medical Physics</i> , 2017, 44, 5961-5976.	1.6	34
26	Collapsed cone dose calculations for heterogeneous tissues in brachytherapy using primary and scatter separation source data. <i>Computer Methods and Programs in Biomedicine</i> , 2017, 139, 17-29.	2.6	25
27	Heuristics for integrated optimization of catheter positioning and dwell time distribution in prostate HDR brachytherapy. <i>Annals of Operations Research</i> , 2016, 236, 319-339.	2.6	10
28	A brachytherapy photon radiation quality index Q _{BT} for probe-type dosimetry. <i>Physica Medica</i> , 2016, 32, 741-748.	0.4	2
29	A generic high-dose rate ¹⁹² Ir brachytherapy source for evaluation of model-based dose calculations beyond the TG-43 formalism. <i>Medical Physics</i> , 2015, 42, 3048-3062.	1.6	64
30	New dosimetry for childhood skin hemangioma treatments with ²²⁶ Ra needles or tubes. <i>Radiotherapy and Oncology</i> , 2015, 116, 139-142.	0.3	4
31	Dose specification for ¹⁹² Ir high dose rate brachytherapy in terms of dose-to-water-in-medium and dose-to-medium-in-medium. <i>Physics in Medicine and Biology</i> , 2015, 60, 4565-4579.	1.6	14
32	The collapsed cone algorithm for ¹⁹² Ir dosimetry using phantom-size adaptive multiple-scatter point kernels. <i>Physics in Medicine and Biology</i> , 2015, 60, 5313-5323.	1.6	10
33	Measurement of absorbed dose to water around an electronic brachytherapy source. Comparison of two dosimetry systems: lithium formate EPR dosimeters and radiochromic EBT2 film. <i>Physics in Medicine and Biology</i> , 2015, 60, 3869-3882.	1.6	3
34	Dosimetric characterization of two radium sources for retrospective dosimetry studies. <i>Medical Physics</i> , 2015, 42, 2132-2142.	1.6	3
35	THABRA02: Generation of 3D Dosimetric Reference Datasets for Commissioning and Validation of ¹⁹² Ir Brachytherapy Model-Based Dose Calculation Software. <i>Medical Physics</i> , 2015, 42, 3707-3707.	1.6	0
36	A system for remote dosimetry audit of 3D-CRT, IMRT and VMAT based on lithium formate dosimetry. <i>Radiotherapy and Oncology</i> , 2014, 113, 279-282.	0.3	10

#	ARTICLE	IF	CITATIONS
37	Monte Carlo Simulation of HDR Ir-192 Brachytherapy Cancer Treatments. <i>Brachytherapy</i> , 2014, 13, S28.	0.2	0
38	Monte Carlo dosimetry of the eye plaque design used at the St. Erik Eye Hospital for 125I brachytherapy. <i>Brachytherapy</i> , 2014, 13, 651-656.	0.2	7
39	Optimisation of an EPR dosimetry system for robust and high precision dosimetry. <i>Radiation Measurements</i> , 2014, 70, 21-28.	0.7	5
40	Comparison of high-dose-rate 192Ir source strength measurements using equipment with traceability to different standards. <i>Brachytherapy</i> , 2014, 13, 420-423.	0.2	4
41	An Adaptive Point Kernel Approach for Improved Skin Dose Determination Using a Collapsed Cone Superposition Algorithm. <i>Brachytherapy</i> , 2013, 12, S12.	0.2	2
42	A linear programming model for optimizing HDR brachytherapy dose distributions with respect to mean dose in the DVH-tail. <i>Medical Physics</i> , 2013, 40, 081705.	1.6	16
43	Specification of absorbed dose to water using model-based dose calculation algorithms for treatment planning in brachytherapy. <i>Physics in Medicine and Biology</i> , 2013, 58, 2561-2579.	1.6	20
44	Investigation of signal fading in lithium formate EPR dosimeters using a new sensitive method. <i>Physics in Medicine and Biology</i> , 2012, 57, 2209-2217.	1.6	16
45	Report of the Task Group 186 on model-based dose calculation methods in brachytherapy beyond the TG43 formalism: Current status and recommendations for clinical implementation. <i>Medical Physics</i> , 2012, 39, 6208-6236.	1.6	391
46	Determination of absorbed dose to water around a clinical HDR192Ir source using LiF:Mg,Ti TLDs demonstrates an LET dependence of detector response. <i>Medical Physics</i> , 2012, 39, 1133-1140.	1.6	19
47	Impact of using linear optimization models in dose planning for HDR brachytherapy. <i>Medical Physics</i> , 2012, 39, 1021-1028.	1.6	25
48	Response of LiF:Mg,Ti thermoluminescent dosimeters at photon energies relevant to the dosimetry of brachytherapy (≤ 1 MeV). <i>Medical Physics</i> , 2011, 38, 5539-5550.	1.6	39
49	Response of lithium formate EPR dosimeters at photon energies relevant to the dosimetry of brachytherapy. <i>Medical Physics</i> , 2010, 37, 4946-4959.	1.6	28
50	Characterization of a C60o unit at a secondary standard dosimetry laboratory: Monte Carlo simulations compared to measurements and results from the literature. <i>Medical Physics</i> , 2010, 37, 2777-2786.	1.6	13
51	Influence of phantom material and dimensions on experimental dosimetry. <i>Medical Physics</i> , 2009, 36, 2228-2235.	1.6	27
52	Evaluation of a lithium formate EPR dosimetry system for dose measurements around brachytherapy sources. <i>Medical Physics</i> , 2009, 36, 2236-2247.	1.6	34
53	Optimization of the computational efficiency of a 3D, collapsed cone dose calculation algorithm for brachytherapy. <i>Medical Physics</i> , 2008, 35, 1611-1618.	1.6	31
54	Audit on source strength determination for HDR and PDR 192Ir brachytherapy in Sweden. <i>Radiotherapy and Oncology</i> , 2008, 86, 126-130.	0.3	19

#	ARTICLE	IF	CITATIONS
55	Experience from long-term monitoring of RAKR ratios in ¹⁹² Ir brachytherapy. Radiotherapy and Oncology, 2008, 89, 217-221.	0.3	9
56	Brachytherapy source characterization for improved dose calculations using primary and scatter dose separation. Medical Physics, 2005, 32, 2739-2752.	1.6	40
57	Accounting for highZshields in brachytherapy using collapsed cone superposition for scatter dose calculation. Medical Physics, 2003, 30, 2206-2217.	1.6	41
58	The collapsed cone superposition algorithm applied to scatter dose calculations in brachytherapy. Medical Physics, 2000, 27, 2320-2332.	1.6	49