

Panagiotis Papagiannis

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/537365/panagiotis-papagiannis-publications-by-year.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

72
papers

1,784
citations

27
h-index

39
g-index

75
ext. papers

1,952
ext. citations

3.2
avg, IF

4.05
L-index

#	Paper	IF	Citations
72	On the potential of 2D ion chamber arrays for high-dose rate remote afterloading brachytherapy quality assurance.. <i>Physics in Medicine and Biology</i> , 2022 ,	3.8	1
71	The Use of Genotoxicity Endpoints as Biomarkers of Low Dose Radiation Exposure in Interventional Cardiology. <i>Frontiers in Public Health</i> , 2021 , 9, 701878	6	
70	Source strength determination in iridium-192 and cobalt-60 brachytherapy: A European survey on the level of agreement between clinical measurements and manufacturer certificates. <i>Physics and Imaging in Radiation Oncology</i> , 2021 , 19, 108-111	3.1	1
69	On the use of EBT3 film for relative dosimetry of kilovoltage X ray beams. <i>Physica Medica</i> , 2020 , 74, 56-65.7		
68	Dosimetric impact of rotational errors on the quality of VMAT-SRS for multiple brain metastases: Comparison between single- and two-isocenter treatment planning techniques. <i>Journal of Applied Clinical Medical Physics</i> , 2020 , 21, 32-44	2.3	17
67	On the use of a novel Ferrous Xylenol-orange gelatin dosimeter for HDR brachytherapy commissioning and quality assurance testing. <i>Physica Medica</i> , 2018 , 45, 162-169	2.7	12
66	A comparative assessment of inhomogeneity and finite patient dimension effects in Co and Ir high-dose-rate brachytherapy. <i>Journal of Contemporary Brachytherapy</i> , 2018 , 10, 73-84	1.9	5
65	Time resolved dose rate distributions in brachytherapy. <i>Physica Medica</i> , 2017 , 41, 13-19	2.7	3
64	On the experimental validation of model-based dose calculation algorithms for Ir HDR brachytherapy treatment planning. <i>Physics in Medicine and Biology</i> , 2017 , 62, 4160-4182	3.8	14
63	A generic TG-186 shielded applicator for commissioning model-based dose calculation algorithms for high-dose-rate Ir brachytherapy. <i>Medical Physics</i> , 2017 , 44, 5961-5976	4.4	17
62	Supplement 2 for the 2004 update of the AAPM Task Group No. 43 Report: Joint recommendations by the AAPM and GEC-ESTRO. <i>Medical Physics</i> , 2017 , 44, e297-e338	4.4	22
61	On source models for (192)Ir HDR brachytherapy dosimetry using model based algorithms. <i>Physics in Medicine and Biology</i> , 2016 , 61, 4235-46	3.8	2
60	A user-oriented procedure for the commissioning and quality assurance testing of treatment planning system dosimetry in high-dose-rate brachytherapy. <i>Brachytherapy</i> , 2016 , 15, 252-62	2.4	12
59	On the impact of improved dosimetric accuracy on head and neck high dose rate brachytherapy. <i>Radiotherapy and Oncology</i> , 2016 , 120, 92-7	5.3	11
58	Dosimetric and radiobiological comparison of TG-43 and Monte Carlo calculations in Ir breast brachytherapy applications. <i>Physica Medica</i> , 2016 , 32, 1245-1251	2.7	7
57	A Web simulation of medical image reconstruction and processing as an educational tool. <i>Journal of Digital Imaging</i> , 2015 , 28, 24-31	5.3	8
56	A retrospective dosimetric comparison of TG43 and a commercially available MBDCa for an APBI brachytherapy patient cohort. <i>Physica Medica</i> , 2015 , 31, 669-76	2.7	26

55	BrachyGuide: a brachytherapy-dedicated DICOM RT viewer and interface to Monte Carlo simulation software. <i>Journal of Applied Clinical Medical Physics</i> , 2015 , 16, 5136	2.3	15
54	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, 3048-61	4.4	41
53	Experimental determination of the Task Group-43 dosimetric parameters of the new I25.S17plus (125)I brachytherapy source. <i>Brachytherapy</i> , 2014 , 13, 618-26	2.4	6
52	Current state of the art brachytherapy treatment planning dosimetry algorithms. <i>British Journal of Radiology</i> , 2014 , 87, 20140163	3.4	39
51	Review of clinical brachytherapy uncertainties: analysis guidelines of GEC-ESTRO and the AAPM. <i>Radiotherapy and Oncology</i> , 2014 , 110, 199-212	5.3	189
50	Air-kerma evaluation at the maze entrance of HDR brachytherapy facilities. <i>Journal of Radiological Protection</i> , 2014 , 34, 741-53	1.2	1
49	Brachytherapy structural shielding calculations using Monte Carlo generated, monoenergetic data. <i>Medical Physics</i> , 2014 , 41, 043901	4.4	2
48	Dosimetric accuracy of a deterministic radiation transport based (192)Ir brachytherapy treatment planning system. Part III. Comparison to Monte Carlo simulation in voxelized anatomical computational models. <i>Medical Physics</i> , 2013 , 40, 011712	4.4	33
47	New (125)I brachytherapy source IsoSeed I25.S17plus: Monte Carlo dosimetry simulation and comparison to sources of similar design. <i>Journal of Contemporary Brachytherapy</i> , 2013 , 5, 240-9	1.9	7
46	Dose-rate to water calibrations for brachytherapy sources from the end-user perspective. <i>Metrologia</i> , 2012 , 49, S249-S252	2.1	
45	On the output factor measurements of the CyberKnife iris collimator small fields: Experimental determination of the $k(Q_{clin}), Q_{msr}$) (f_{clin}, f_{msr}) correction factors for microchamber and diode detectors. <i>Medical Physics</i> , 2012 , 39, 4875-85	4.4	50
44	Dose and dose averaged LET comparison of 1H , 3He , 7Li , ^{10}B , ^{12}C , ^{16}O , and ^{20}Ne ion beams forming a spread-out Bragg peak. <i>Medical Physics</i> , 2011 , 38, 6585-91	4.4	35
43	Dosimetric accuracy of a deterministic radiation transport based 192Ir brachytherapy treatment planning system. Part II: Monte Carlo and experimental verification of a multiple source dwell position plan employing a shielded applicator. <i>Medical Physics</i> , 2011 , 38, 1981-92	4.4	59
42	Dosimetric accuracy of a deterministic radiation transport based 192Ir brachytherapy treatment planning system. Part I: single sources and bounded homogeneous geometries. <i>Medical Physics</i> , 2010 , 37, 649-61	4.4	46
41	On the implementation of a recently proposed dosimetric formalism to a robotic radiosurgery system. <i>Medical Physics</i> , 2010 , 37, 2369-79	4.4	47
40	Gamma Knife relative dosimetry using VIP polymer gel and EBT radiochromic films. <i>Journal of Physics: Conference Series</i> , 2009 , 164, 012053	0.3	4
39	The use of high field strength and parallel imaging techniques for MRI-based gel dosimetry in stereotactic radiosurgery. <i>Journal of Instrumentation</i> , 2009 , 4, P07004-P07004	1	2
38	Gamma knife output factor measurements using VIP polymer gel dosimetry. <i>Medical Physics</i> , 2009 , 36, 4277-87	4.4	22

37	On the use of VIP gel dosimetry in HDR brachytherapy. <i>Journal of Physics: Conference Series</i> , 2009 , 164, 012051	0.3	4
36	Estimation of children's radiation dose from cardiac catheterisations, performed for the diagnosis or the treatment of a congenital heart disease using TLD dosimetry and Monte Carlo simulation. <i>Journal of Radiological Protection</i> , 2009 , 29, 251-61	1.2	29
35	Radiation transmission data for radionuclides and materials relevant to brachytherapy facility shielding. <i>Medical Physics</i> , 2008 , 35, 4898-906	4.4	24
34	Dosimetric characterization of CyberKnife radiosurgical photon beams using polymer gels. <i>Medical Physics</i> , 2008 , 35, 2312-20	4.4	61
33	Monte Carlo simulations to optimize experimental dosimetry of narrow beams used in Gamma Knife radio-surgery. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2007 , 580, 548-551	1.2	1
32	On the use of high dose rate ¹⁹² Ir and ¹⁶⁹ Yb sources with the MammoSite radiation therapy system. <i>Medical Physics</i> , 2007 , 34, 3614-9	4.4	11
31	Polymer gel dosimetry for the TG-43 dosimetric characterization of a new ¹²⁵ I interstitial brachytherapy seed. <i>Physics in Medicine and Biology</i> , 2006 , 51, 2101-11	3.8	19
30	Comparison of radiation shielding requirements for HDR brachytherapy using ¹⁶⁹ Yb and ¹⁹² Ir sources. <i>Medical Physics</i> , 2006 , 33, 2541-7	4.4	16
29	A dosimetric comparison of ¹⁶⁹ Yb and ¹⁹² Ir for HDR brachytherapy of the breast, accounting for the effect of finite patient dimensions and tissue inhomogeneities. <i>Medical Physics</i> , 2006 , 33, 4583-9	4.4	36
28	On the dose rate constant of the selectSeed ¹²⁵ I interstitial brachytherapy seed. <i>Medical Physics</i> , 2006 , 33, 1522-3	4.4	7
27	Dose characterization of the new Bebig IsoSeed [®] I25.S17 using polymer gel and MRI. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2006 , 569, 529-532	1.2	6
26	Fast, three-dimensional, MR Imaging for polymer gel dosimetric applications involving high dose and steep dose gradients. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2006 , 569, 572-576	1.2	7
25	Dose verification of single shot gamma knife applications using VIPAR polymer gel and MRI. <i>Physics in Medicine and Biology</i> , 2005 , 50, 1235-50	3.8	38
24	Three-dimensional dose verification of the clinical application of gamma knife stereotactic radiosurgery using polymer gel and MRI. <i>Physics in Medicine and Biology</i> , 2005 , 50, 1979-90	3.8	36
23	Polymer gel dosimetry close to an ¹²⁵ I interstitial brachytherapy seed. <i>Physics in Medicine and Biology</i> , 2005 , 50, 4371-84	3.8	24
22	An evaluation of the TSE MR sequence for time efficient data acquisition in polymer gel dosimetry of applications involving high doses and steep dose gradients. <i>Medical Physics</i> , 2005 , 32, 3339-45	4.4	8
21	The effect of finite patient dimensions and tissue inhomogeneities on dosimetry planning of ¹⁹² Ir HDR breast brachytherapy: a Monte Carlo dose verification study. <i>International Journal of Radiation Oncology Biology Physics</i> , 2005 , 61, 1596-602	4	57
20	Monte Carlo and thermoluminescence dosimetry of the new IsoSeed model I25.S17 ¹²⁵ I interstitial brachytherapy seed. <i>Medical Physics</i> , 2005 , 32, 3313-7	4.4	15

19	A dosimetric comparison of ^{169}Yb versus ^{192}Ir for HDR prostate brachytherapy. <i>Medical Physics</i> , 2005 , 32, 3832-42	4.4	22
18	Evaluation of a TG-43 compliant analytical dosimetry model in clinical ^{192}Ir HDR brachytherapy treatment planning and assessment of the significance of source position and catheter reconstruction uncertainties. <i>Physics in Medicine and Biology</i> , 2004 , 49, 55-67	3.8	15
17	A monte carlo dosimetry study of vaginal ^{192}Ir brachytherapy applications with a shielded cylindrical applicator set. <i>Medical Physics</i> , 2004 , 31, 3080-6	4.4	25
16	Polymer gel water equivalence and relative energy response with emphasis on low photon energy dosimetry in brachytherapy. <i>Physics in Medicine and Biology</i> , 2004 , 49, 3495-514	3.8	76
15	The effect of patient inhomogeneities in oesophageal ^{192}Ir HDR brachytherapy: a Monte Carlo and analytical dosimetry study. <i>Physics in Medicine and Biology</i> , 2004 , 49, 2675-85	3.8	38
14	In vivo thermoluminescence dosimetry dose verification of transperineal ^{192}Ir high-dose-rate brachytherapy using CT-based planning for the treatment of prostate cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2003 , 57, 1183-91	4	43
13	Monte Carlo dosimetry of ^{60}Co HDR brachytherapy sources. <i>Medical Physics</i> , 2003 , 30, 712-21	4.4	36
12	3D dose verification in ^{192}Ir HDR prostate monotherapy using polymer gels and MRI. <i>Medical Physics</i> , 2003 , 30, 2031-9	4.4	34
11	An analytical dosimetry model as a step towards accounting for inhomogeneities and bounded geometries in ^{192}Ir brachytherapy treatment planning. <i>Physics in Medicine and Biology</i> , 2003 , 48, 1625-47	3.8	35
10	Monte Carlo dosimetry of a new ^{192}Ir pulsed dose rate brachytherapy source. <i>Medical Physics</i> , 2003 , 30, 9-16	4.4	33
9	On the dosimetric accuracy of a Sievert integration model in the proximity of ^{192}Ir HDR sources. <i>International Journal of Radiation Oncology Biology Physics</i> , 2002 , 53, 1071-84	4	8
8	Polymer gel dosimetry using a three-dimensional MRI acquisition technique. <i>Medical Physics</i> , 2002 , 29, 2506-16	4.4	22
7	Thermoluminescent dosimetry of the selectseed ^{125}I interstitial brachytherapy seed. <i>Medical Physics</i> , 2002 , 29, 709-16	4.4	34
6	Dosimetric calculations and VIPAR polymer gel dosimetry close to the microSelectron HDR. <i>Zeitschrift Fur Medizinische Physik</i> , 2002 , 12, 252-9	7.6	5
5	Dosimetry comparison of ^{192}Ir sources. <i>Medical Physics</i> , 2002 , 29, 2239-46	4.4	43
4	Dosimetry close to an ^{192}Ir HDR source using N-vinylpyrrolidone based polymer gels and magnetic resonance imaging. <i>Medical Physics</i> , 2001 , 28, 1416-26	4.4	36
3	Dosimetry of ^{192}Ir wires for LDR interstitial brachytherapy following the AAPM TG-43 dosimetric formalism. <i>Medical Physics</i> , 2001 , 28, 156-66	4.4	19
2	Beta versus gamma dosimetry close to ^{192}Ir brachytherapy sources. <i>Medical Physics</i> , 2001 , 28, 1875-82	4.4	48

- 1 Monte Carlo dosimetry of the selectSeed 125I interstitial brachytherapy seed. *Medical Physics*, **2001**, 28, 1753-60 4.4 53