

Panagiotis Papagiannis

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72
papers

1,784
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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	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
71	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
70	Dosimetric characterization of CyberKnife radiosurgical photon beams using polymer gels. <i>Medical Physics</i> , 2008 , 35, 2312-20	4.4	61
69	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
68	The effect of finite patient dimensions and tissue inhomogeneities on dosimetry planning of 192Ir HDR breast brachytherapy: a Monte Carlo dose verification study. <i>International Journal of Radiation Oncology Biology Physics</i> , 2005 , 61, 1596-602	4	57
67	Monte Carlo dosimetry of the selectSeed 125I interstitial brachytherapy seed. <i>Medical Physics</i> , 2001 , 28, 1753-60	4.4	53
66	On the output factor measurements of the CyberKnife iris collimator small fields: Experimental determination of the $k(Q(\text{clin}), Q(\text{msr}))$ ($f(\text{clin}), f(\text{msr})$) correction factors for microchamber and diode detectors. <i>Medical Physics</i> , 2012 , 39, 4875-85	4.4	50
65	Beta versus gamma dosimetry close to Ir-192 brachytherapy sources. <i>Medical Physics</i> , 2001 , 28, 1875-82	4.4	48
64	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
63	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
62	In vivo thermoluminescence dosimetry dose verification of transperineal 192Ir 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
61	Dosimetry comparison of 192Ir sources. <i>Medical Physics</i> , 2002 , 29, 2239-46	4.4	43
60	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
59	Current state of the art brachytherapy treatment planning dosimetry algorithms. <i>British Journal of Radiology</i> , 2014 , 87, 20140163	3.4	39
58	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
57	The effect of patient inhomogeneities in oesophageal 192Ir HDR brachytherapy: a Monte Carlo and analytical dosimetry study. <i>Physics in Medicine and Biology</i> , 2004 , 49, 2675-85	3.8	38
56	A dosimetric comparison of 169Yb and 192Ir 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

55	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
54	Monte Carlo dosimetry of ⁶⁰ Co HDR brachytherapy sources. <i>Medical Physics</i> , 2003 , 30, 712-21	4.4	36
53	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
52	Dose and dose averaged LET comparison of ¹ H, ⁴ He, ¹¹ B, ¹² C, ¹⁶ O, ¹⁹ F, ²³ Na, and ³² S ion beams forming a spread-out Bragg peak. <i>Medical Physics</i> , 2011 , 38, 6585-91	4.4	35
51	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
50	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
49	Thermoluminescent dosimetry of the selectseed ¹²⁵ I interstitial brachytherapy seed. <i>Medical Physics</i> , 2002 , 29, 709-16	4.4	34
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	Monte Carlo dosimetry of a new ¹⁹² Ir pulsed dose rate brachytherapy source. <i>Medical Physics</i> , 2003 , 30, 9-16	4.4	33
46	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
45	A retrospective dosimetric comparison of TG43 and a commercially available MBDC for an APBI brachytherapy patient cohort. <i>Physica Medica</i> , 2015 , 31, 669-76	2.7	26
44	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
43	Radiation transmission data for radionuclides and materials relevant to brachytherapy facility shielding. <i>Medical Physics</i> , 2008 , 35, 4898-906	4.4	24
42	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
41	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
40	Gamma knife output factor measurements using VIP polymer gel dosimetry. <i>Medical Physics</i> , 2009 , 36, 4277-87	4.4	22
39	A dosimetric comparison of ¹⁶⁹ Yb versus ¹⁹² Ir for HDR prostate brachytherapy. <i>Medical Physics</i> , 2005 , 32, 3832-42	4.4	22
38	Polymer gel dosimetry using a three-dimensional MRI acquisition technique. <i>Medical Physics</i> , 2002 , 29, 2506-16	4.4	22

37	Polymer gel dosimetry for the TG-43 dosimetric characterization of a new 125I interstitial brachytherapy seed. <i>Physics in Medicine and Biology</i> , 2006 , 51, 2101-11	3.8	19
36	Dosimetry of 192Ir wires for LDR interstitial brachytherapy following the AAPM TG-43 dosimetric formalism. <i>Medical Physics</i> , 2001 , 28, 156-66	4.4	19
35	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
34	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
33	Comparison of radiation shielding requirements for HDR brachytherapy using 169Yb and 192Ir sources. <i>Medical Physics</i> , 2006 , 33, 2541-7	4.4	16
32	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
31	Evaluation of a TG-43 compliant analytical dosimetry model in clinical 192Ir 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
30	Monte Carlo and thermoluminescence dosimetry of the new IsoSeed model I25.S17 125I interstitial brachytherapy seed. <i>Medical Physics</i> , 2005 , 32, 3313-7	4.4	15
29	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
28	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
27	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
26	On the use of high dose rate 192Ir and 169Yb sources with the MammoSite radiation therapy system. <i>Medical Physics</i> , 2007 , 34, 3614-9	4.4	11
25	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
24	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
23	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
22	On the dosimetric accuracy of a Sievert integration model in the proximity of 192Ir HDR sources. <i>International Journal of Radiation Oncology Biology Physics</i> , 2002 , 53, 1071-84	4	8
21	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
20	On the dose rate constant of the selectSeed 125I interstitial brachytherapy seed. <i>Medical Physics</i> , 2006 , 33, 1522-3	4.4	7

19	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
18	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
17	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
16	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
15	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
14	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
13	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
12	On the use of VIP gel dosimetry in HDR brachytherapy. <i>Journal of Physics: Conference Series</i> , 2009 , 164, 012051	0.3	4
11	Time resolved dose rate distributions in brachytherapy. <i>Physica Medica</i> , 2017 , 41, 13-19	2.7	3
10	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
9	Brachytherapy structural shielding calculations using Monte Carlo generated, monoenergetic data. <i>Medical Physics</i> , 2014 , 41, 043901	4.4	2
8	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
7	Air-kerma evaluation at the maze entrance of HDR brachytherapy facilities. <i>Journal of Radiological Protection</i> , 2014 , 34, 741-53	1.2	1
6	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
5	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
4	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
3	On the use of EBT3 film for relative dosimetry of kilovoltage X ray beams. <i>Physica Medica</i> , 2020 , 74, 56-65.		
2	Dose-rate to water calibrations for brachytherapy sources from the end-user perspective. <i>Metrologia</i> , 2012 , 49, S249-S252	2.1	

- 1 The Use of Genotoxicity Endpoints as Biomarkers of Low Dose Radiation Exposure in Interventional Cardiology. *Frontiers in Public Health*, **2021**, 9, 701878

6