

Panagiotis Papagiannis

List of Publications by Year in descending order

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73
papers

2,157
citations

159573

30
h-index

243610

44
g-index

75
all docs

75
docs citations

75
times ranked

1108
citing authors

#	ARTICLE	IF	CITATIONS
1	Review of clinical brachytherapy uncertainties: Analysis guidelines of GEC-ESTRO and the AAPM. Radiotherapy and Oncology, 2014, 110, 199-212.	0.6	243
2	Polymer gel water equivalence and relative energy response with emphasis on low photon energy dosimetry in brachytherapy. Physics in Medicine and Biology, 2004, 49, 3495-3514.	3.0	87
3	Dosimetric accuracy of a deterministic radiation transport based brachytherapy treatment planning system. Part II: Monte Carlo and experimental verification of a multiple source dwell position plan employing a shielded applicator. Medical Physics, 2011, 38, 1981-1992.	3.0	68
4	Dosimetric characterization of CyberKnife radiosurgical photon beams using polymer gels. Medical Physics, 2008, 35, 2312-2320.	3.0	65
5	A generic high-dose rate ¹⁹² Ir brachytherapy source for evaluation of model-based dose calculations beyond the TG-43 formalism. Medical Physics, 2015, 42, 3048-3062.	3.0	64
6	The effect of finite patient dimensions and tissue inhomogeneities on dosimetry planning of ¹⁹² Ir HDR breast brachytherapy: A Monte Carlo dose verification study. International Journal of Radiation Oncology Biology Physics, 2005, 61, 1596-1602.	0.8	59
7	Monte Carlo dosimetry of a new ¹⁹² Ir pulsed dose rate brachytherapy source. Medical Physics, 2002, 30, 9-16.	3.0	58
8	Dosimetric accuracy of a deterministic radiation transport based brachytherapy treatment planning system. Part I: Single sources and bounded homogeneous geometries. Medical Physics, 2010, 37, 649-661.	3.0	58
9	On the output factor measurements of the CyberKnife iris collimator small fields: Experimental determination of the correction factors for microchamber and diode detectors. Medical Physics, 2012, 39, 4875-4885.	3.0	58
10	Monte Carlo dosimetry of the selectSeed ¹²⁵ I interstitial brachytherapy seed. Medical Physics, 2001, 28, 1753-1760.	3.0	56
11	Beta versus gamma dosimetry close to Ir-192 brachytherapy sources. Medical Physics, 2001, 28, 1875-1882.	3.0	55
12	On the implementation of a recently proposed dosimetric formalism to a robotic radiosurgery system. Medical Physics, 2010, 37, 2369-2379.	3.0	55
13	Current state of the art brachytherapy treatment planning dosimetry algorithms. British Journal of Radiology, 2014, 87, 20140163.	2.2	48
14	Supplement 2 for the 2004 update of the <sc>AAPM</sc> Task Group No. 43 Report: Joint recommendations by the <sc>AAPM</sc> and <sc>GEC</sc>â€œ<sc>ESTRO</sc>. Medical Physics, 2017, 44, e297-e338.	3.0	48
15	In vivo thermoluminescence dosimetry dose verification of transperineal ¹⁹² Ir high-dose-rate brachytherapy using CT-based planning for the treatment of prostate cancer. International Journal of Radiation Oncology Biology Physics, 2003, 57, 1183-1191.	0.8	46
16	Dosimetry comparison of ¹⁹² Ir Sources. Medical Physics, 2002, 29, 2239-2246.	3.0	45
17	Dose and dose averaged LET comparison of ¹ H, ⁴ He, ⁶ Li, ⁸ Be, ¹⁰ B, ¹² C, ¹⁴ N, and ¹⁶ O ion beams forming a spreadâ€out Bragg peak. Medical Physics, 2011, 38, 6585-6591.	3.0	45
18	Three-dimensional dose verification of the clinical application of gamma knife stereotactic radiosurgery using polymer gel and MRI. Physics in Medicine and Biology, 2005, 50, 1979-1990.	3.0	42

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19	Dose verification of single shot gamma knife applications using VIPAR polymer gel and MRI. Physics in Medicine and Biology, 2005, 50, 1235-1250.	3.0	41
20	Monte Carlo dosimetry of ⁶⁰ Co HDR brachytherapy sources. Medical Physics, 2003, 30, 712-721.	3.0	40
21	The effect of patient inhomogeneities in oesophageal ¹⁹² Ir HDR brachytherapy: a Monte Carlo and analytical dosimetry study. Physics in Medicine and Biology, 2004, 49, 2675-2685.	3.0	40
22	A dosimetric comparison of Yb ¹⁶⁹ and Ir ¹⁹² for HDR brachytherapy of the breast, accounting for the effect of finite patient dimensions and tissue inhomogeneities. Medical Physics, 2006, 33, 4583-4589.	3.0	40
23	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. Medical Physics, 2013, 40, 011712.	3.0	40
24	Dosimetry close to an ¹⁹² Ir HDR source using N-vinylpyrrolidone based polymer gels and magnetic resonance imaging. Medical Physics, 2001, 28, 1416-1426.	3.0	38
25	Thermoluminescent dosimetry of the selectSeed 125I interstitial brachytherapy seed. Medical Physics, 2002, 29, 709-716.	3.0	37
26	3D dose verification in ¹⁹² Ir HDR prostate monotherapy using polymer gels and MRI. Medical Physics, 2003, 30, 2031-2039.	3.0	36
27	An analytical dosimetry model as a step towards accounting for inhomogeneities and bounded geometries in ¹⁹² Ir brachytherapy treatment planning. Physics in Medicine and Biology, 2003, 48, 1625-1647.	3.0	35
28	A generic TG ¹⁸⁶ shielded applicator for commissioning model based dose calculation algorithms for high dose rate ¹⁹² Ir brachytherapy. Medical Physics, 2017, 44, 5961-5976.	3.0	34
29	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. Journal of Radiological Protection, 2009, 29, 251-261.	1.1	33
30	Dosimetric impact of rotational errors on the quality of VMAT SRS for multiple brain metastases: Comparison between single and two isocenter treatment planning techniques. Journal of Applied Clinical Medical Physics, 2020, 21, 32-44.	1.9	32
31	Polymer gel dosimetry close to an ¹²⁵ I interstitial brachytherapy seed. Physics in Medicine and Biology, 2005, 50, 4371-4384.	3.0	31
32	A Monte Carlo dosimetry study of vaginal Ir ¹⁹² brachytherapy applications with a shielded cylindrical applicator set. Medical Physics, 2004, 31, 3080-3086.	3.0	28
33	Polymer gel dosimetry using a three-dimensional MRI acquisition technique. Medical Physics, 2002, 29, 2506-2516.	3.0	27
34	A retrospective dosimetric comparison of TG43 and a commercially available MBDCa for an APBI brachytherapy patient cohort. Physica Medica, 2015, 31, 669-676.	0.7	26
35	Radiation transmission data for radionuclides and materials relevant to brachytherapy facility shielding. Medical Physics, 2008, 35, 4898-4906.	3.0	25
36	A dosimetric comparison of Yb ¹⁶⁹ versus Ir ¹⁹² for HDR prostate brachytherapy. Medical Physics, 2005, 32, 3832-3842.	3.0	24

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37	Gamma Knife output factor measurements using VIP polymer gel dosimetry. <i>Medical Physics</i> , 2009, 36, 4277-4287.	3.0	24
38	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, 2101-2111.	3.0	22
39	Dosimetry of ¹⁹² Ir wires for LDR interstitial brachytherapy following the AAPM TG-43 dosimetric formalism. <i>Medical Physics</i> , 2001, 28, 156-166.	3.0	21
40	On the experimental validation of model-based dose calculation algorithms for ¹⁹² Ir HDR brachytherapy treatment planning. <i>Physics in Medicine and Biology</i> , 2017, 62, 4160-4182.	3.0	21
41	BrachyGuide: a brachytherapy dedicated DICOM RT viewer and interface to Monte Carlo simulation software. <i>Journal of Applied Clinical Medical Physics</i> , 2015, 16, 208-218.	1.9	20
42	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.	0.7	19
43	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.	3.0	18
44	Comparison of radiation shielding requirements for HDR brachytherapy using Yb169 and Ir192 sources. <i>Medical Physics</i> , 2006, 33, 2541-2547.	3.0	17
45	Monte Carlo and thermoluminescence dosimetry of the new IsoSeed® model I25.S17 I125 interstitial brachytherapy seed. <i>Medical Physics</i> , 2005, 32, 3313-3317.	3.0	15
46	On the impact of improved dosimetric accuracy on head and neck high dose rate brachytherapy. <i>Radiotherapy and Oncology</i> , 2016, 120, 92-97.	0.6	15
47	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, 252-262.	0.5	13
48	On the use of high dose rate and sources with the MammoSite® radiation therapy system. <i>Medical Physics</i> , 2007, 34, 3614-3619.	3.0	11
49	Dosimetric and radiobiological comparison of TG-43 and Monte Carlo calculations in ¹⁹² Ir breast brachytherapy applications. <i>Physica Medica</i> , 2016, 32, 1245-1251.	0.7	11
50	Management of Acute Radiodermatitis in Non-Melanoma Skin Cancer Patients Using Electrospun Nanofibrous Patches Loaded with Pinus halepensis Bark Extract. <i>Cancers</i> , 2021, 13, 2596.	3.7	10
51	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.	1.6	9
52	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, 1071-1084.	0.8	8
53	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, 3339-3345.	3.0	8
54	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, 4, 240-249.	0.9	8

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55	Experimental determination of the Task Group-43 dosimetric parameters of the new I25.S17plus 125I brachytherapy source. <i>Brachytherapy</i> , 2014, 13, 618-626.	0.5	8
56	A Web Simulation of Medical Image Reconstruction and Processing as an Educational Tool. <i>Journal of Digital Imaging</i> , 2015, 28, 24-31.	2.9	8
57	Dosimetric calculations and VIPAR polymer gel dosimetry close to the microSelectron HDR. <i>Zeitschrift Fur Medizinische Physik</i> , 2002, 12, 252-259.	1.5	7
58	On the dose rate constant of the selectSeed I125 interstitial brachytherapy seed. <i>Medical Physics</i> , 2006, 33, 1522-1523.	3.0	7
59	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.	1.6	6
60	Gamma Knife relative dosimetry using VIP polymer gel and EBT radiochromic films. <i>Journal of Physics: Conference Series</i> , 2009, 164, 012053.	0.4	6
61	On the use of VIP gel dosimetry in HDR brachytherapy. <i>Journal of Physics: Conference Series</i> , 2009, 164, 012051.	0.4	6
62	A comparative assessment of inhomogeneity and finite patient dimension effects in 60 Co and 192 Ir high-dose-rate brachytherapy. <i>Journal of Contemporary Brachytherapy</i> , 2018, 10, 73-84.	0.9	5
63	Time resolved dose rate distributions in brachytherapy. <i>Physica Medica</i> , 2017, 41, 13-19.	0.7	4
64	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	2
65	Brachytherapy structural shielding calculations using Monte Carlo generated, monoenergetic data. <i>Medical Physics</i> , 2014, 41, 043901.	3.0	2
66	On source models for 192Ir HDR brachytherapy dosimetry using model based algorithms. <i>Physics in Medicine and Biology</i> , 2016, 61, 4235-4246.	3.0	2
67	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.	2.9	2
68	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.	1.6	1
69	Dose-rate to water calibrations for brachytherapy sources from the end-user perspective. <i>Metrologia</i> , 2012, 49, S249-S252.	1.2	1
70	Air-kerma evaluation at the maze entrance of HDR brachytherapy facilities. <i>Journal of Radiological Protection</i> , 2014, 34, 741-753.	1.1	1
71	On the use of EBT3 film for relative dosimetry of kilovoltage X ray beams. <i>Physica Medica</i> , 2020, 74, 56-65.	0.7	1
72	The Use of Genotoxicity Endpoints as Biomarkers of Low Dose Radiation Exposure in Interventional Cardiology. <i>Frontiers in Public Health</i> , 2021, 9, 701878.	2.7	1

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73	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, 67, 085011.	3.0	1