

# Evaggelos Pantelis

## List of Publications by Year in Descending Order

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

52  
papers

1,133  
citations

19  
h-index

32  
g-index

57  
ext. papers

1,238  
ext. citations

3  
avg, IF

3.87  
L-index

#	Paper	IF	Citations
52	On the potential of 2D ion chamber arrays for high-dose rate remote afterloading brachytherapy quality assurance.. <i>Physics in Medicine and Biology</i> , <b>2022</b> ,	3.8	1
51	Monte Carlo simulation to assess free space and end-weld thickness variation effects on dose rate for a new Ir-192 brachytherapy source. <i>Applied Radiation and Isotopes</i> , <b>2021</b> , 173, 109709	1.7	
50	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> , <b>2020</b> , 21, 32-44	2.3	17
49	A comparative assessment of inhomogeneity and finite patient dimension effects in Co and Ir high-dose-rate brachytherapy. <i>Journal of Contemporary Brachytherapy</i> , <b>2018</b> , 10, 73-84	1.9	5
48	On the total system error of a robotic radiosurgery system: phantom measurements, clinical evaluation and long-term analysis. <i>Physics in Medicine and Biology</i> , <b>2018</b> , 63, 165015	3.8	11
47	Staged Image-guided Robotic Radiosurgery and Deferred Chemotherapy to Treat a Malignant Glioma During and After Pregnancy. <i>Cureus</i> , <b>2018</b> , 10, e2141	1.2	2
46	Influence of multiple brain metastases size and number on the quality of SRS VMAT dose delivery. <i>Journal of Physics: Conference Series</i> , <b>2017</b> , 931, 012022	0.3	3
45	Monte Carlo and experimental determination of correction factors for gamma knife perfexion small field dosimetry measurements. <i>Physics in Medicine and Biology</i> , <b>2017</b> , 62, 7532-7555	3.8	13
44	On source models for (192)Ir HDR brachytherapy dosimetry using model based algorithms. <i>Physics in Medicine and Biology</i> , <b>2016</b> , 61, 4235-46	3.8	2
43	Radiation dose to the fetus during CyberKnife radiosurgery for a brain tumor in pregnancy. <i>Physica Medica</i> , <b>2016</b> , 32, 237-41	2.7	17
42	On the development of a comprehensive MC simulation model for the Gamma Knife Perfexion radiosurgery unit. <i>Physics in Medicine and Biology</i> , <b>2016</b> , 61, 1182-203	3.8	10
41	A user-oriented procedure for the commissioning and quality assurance testing of treatment planning system dosimetry in high-dose-rate brachytherapy. <i>Brachytherapy</i> , <b>2016</b> , 15, 252-62	2.4	12
40	On the impact of improved dosimetric accuracy on head and neck high dose rate brachytherapy. <i>Radiotherapy and Oncology</i> , <b>2016</b> , 120, 92-7	5.3	11
39	A Web simulation of medical image reconstruction and processing as an educational tool. <i>Journal of Digital Imaging</i> , <b>2015</b> , 28, 24-31	5.3	8
38	BrachyGuide: a brachytherapy-dedicated DICOM RT viewer and interface to Monte Carlo simulation software. <i>Journal of Applied Clinical Medical Physics</i> , <b>2015</b> , 16, 5136	2.3	15
37	SU-F-BRA-12: End-User Oriented Tools and Procedures for Testing Brachytherapy TPSs Employing MBDCAs. <i>Medical Physics</i> , <b>2015</b> , 42, 3536-3536	4.4	
36	SU-E-T-580: On the Significance of Model Based Dosimetry for Breast and Head and Neck 192Ir HDR Brachytherapy. <i>Medical Physics</i> , <b>2015</b> , 42, 3469-3469	4.4	

35	Experimental determination of the Task Group-43 dosimetric parameters of the new I25.S17plus (125)I brachytherapy source. <i>Brachytherapy</i> , <b>2014</b> , 13, 618-26	2.4	6
34	Current state of the art brachytherapy treatment planning dosimetry algorithms. <i>British Journal of Radiology</i> , <b>2014</b> , 87, 20140163	3.4	39
33	Assessment and characterization of the total geometric uncertainty in Gamma Knife radiosurgery using polymer gels. <i>Medical Physics</i> , <b>2013</b> , 40, 031704	4.4	19
32	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> , <b>2013</b> , 40, 011712	4.4	33
31	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> , <b>2013</b> , 5, 240-9	1.9	7
30	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> , <b>2012</b> , 39, 4875-85	4.4	50
29	Radiosurgery for movement disorders. <i>Computer Aided Surgery</i> , <b>2011</b> , 16, 101-11		
28	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> , <b>2011</b> , 38, 1981-92	4.4	59
27	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> , <b>2010</b> , 37, 649-61	4.4	46
26	On the implementation of a recently proposed dosimetric formalism to a robotic radiosurgery system. <i>Medical Physics</i> , <b>2010</b> , 37, 2369-79	4.4	47
25	Integration of functional MRI and white matter tractography in stereotactic radiosurgery clinical practice. <i>International Journal of Radiation Oncology Biology Physics</i> , <b>2010</b> , 78, 257-67	4	48
24	Gamma knife output factor measurements using VIP polymer gel dosimetry. <i>Medical Physics</i> , <b>2009</b> , 36, 4277-87	4.4	22
23	Characterization of a new polymer gel for radiosurgery dosimetry using Magnetic Resonance Imaging. <i>Journal of Instrumentation</i> , <b>2009</b> , 4, P06018-P06018	1	7
22	Atlas-based functional radiosurgery: early results. <i>Medical Physics</i> , <b>2009</b> , 36, 457-63	4.4	10
21	Image guidance quality assurance of a G4 CyberKnife robotic stereotactic radiosurgery system. <i>Journal of Instrumentation</i> , <b>2009</b> , 4, P05009-P05009	1	5
20	Performance evaluation of a CyberKnife G4 image-guided robotic stereotactic radiosurgery system. <i>Physics in Medicine and Biology</i> , <b>2008</b> , 53, 4697-718	3.8	108
19	Dosimetric characterization of CyberKnife radiosurgical photon beams using polymer gels. <i>Medical Physics</i> , <b>2008</b> , 35, 2312-20	4.4	61
18	WE-D-351-01: Atlas-Based Functional Radiosurgery: Early Results. <i>Medical Physics</i> , <b>2008</b> , 35, 2946-2946	4.4	

17	On the use of high dose rate <sup>192</sup> Ir and <sup>169</sup> Yb sources with the MammoSite radiation therapy system. <i>Medical Physics</i> , <b>2007</b> , 34, 3614-9	4.4	11
16	Polymer gel dosimetry for the TG-43 dosimetric characterization of a new <sup>125</sup> I interstitial brachytherapy seed. <i>Physics in Medicine and Biology</i> , <b>2006</b> , 51, 2101-11	3.8	19
15	Dose characterization of the new Bebig IsoSeed <sup>®</sup> <sup>125</sup> I25.S17 using polymer gel and MRI. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2006</b> , 569, 529-532	1.2	6
14	Polymer gel dosimetry close to an <sup>125</sup> I interstitial brachytherapy seed. <i>Physics in Medicine and Biology</i> , <b>2005</b> , 50, 4371-84	3.8	24
13	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> , <b>2005</b> , 32, 3339-45	4.4	8
12	The effect of finite patient dimensions and tissue inhomogeneities on dosimetry planning of <sup>192</sup> Ir HDR breast brachytherapy: a Monte Carlo dose verification study. <i>International Journal of Radiation Oncology Biology Physics</i> , <b>2005</b> , 61, 1596-602	4	57
11	Evaluation of a TG-43 compliant analytical dosimetry model in clinical <sup>192</sup> Ir HDR brachytherapy treatment planning and assessment of the significance of source position and catheter reconstruction uncertainties. <i>Physics in Medicine and Biology</i> , <b>2004</b> , 49, 55-67	3.8	15
10	A monte carlo dosimetry study of vaginal <sup>192</sup> Ir brachytherapy applications with a shielded cylindrical applicator set. <i>Medical Physics</i> , <b>2004</b> , 31, 3080-6	4.4	25
9	Polymer gel water equivalence and relative energy response with emphasis on low photon energy dosimetry in brachytherapy. <i>Physics in Medicine and Biology</i> , <b>2004</b> , 49, 3495-514	3.8	76
8	The effect of patient inhomogeneities in oesophageal <sup>192</sup> Ir HDR brachytherapy: a Monte Carlo and analytical dosimetry study. <i>Physics in Medicine and Biology</i> , <b>2004</b> , 49, 2675-85	3.8	38
7	Type I Gaucher disease with severe skeletal destruction, extraosseous extension, and monoclonal gammopathy. <i>American Journal of Hematology</i> , <b>2004</b> , 77, 377-80	7.1	4
6	Monte Carlo dosimetry of <sup>60</sup> Co HDR brachytherapy sources. <i>Medical Physics</i> , <b>2003</b> , 30, 712-21	4.4	36
5	An analytical dosimetry model as a step towards accounting for inhomogeneities and bounded geometries in <sup>192</sup> Ir brachytherapy treatment planning. <i>Physics in Medicine and Biology</i> , <b>2003</b> , 48, 1625-47	3.8	35
4	Monte Carlo dosimetry of a new <sup>192</sup> Ir pulsed dose rate brachytherapy source. <i>Medical Physics</i> , <b>2003</b> , 30, 9-16	4.4	33
3	On the dosimetric accuracy of a Sievert integration model in the proximity of <sup>192</sup> Ir HDR sources. <i>International Journal of Radiation Oncology Biology Physics</i> , <b>2002</b> , 53, 1071-84	4	8
2	Dosimetry comparison of <sup>192</sup> Ir sources. <i>Medical Physics</i> , <b>2002</b> , 29, 2239-46	4.4	43
1	Bladder wall dosimetry for <sup>131</sup> I administered activities. <i>Radiation Protection Dosimetry</i> , <b>2001</b> , 95, 109-160	0.9	1