

Pantelis Karaiskos

List of Publications by Year in descending order

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Version: 2024-02-01

104
papers

2,406
citations

147801

31
h-index

243625

44
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105
all docs

105
docs citations

105
times ranked

1317
citing authors

#	ARTICLE	IF	CITATIONS
1	Radiation Exposure in the Lower Atmosphere during Different Periods of Solar Activity. <i>Atmosphere</i> , 2022, 13, 166.	2.3	9
2	Target localization accuracy in frame-based stereotactic radiosurgery: Comparison between MR-only and MR/CT co-registration approaches. <i>Journal of Applied Clinical Medical Physics</i> , 2022, 23, e13580.	1.9	6
3	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
4	Comparison and Evaluation of Different Radiotherapy Techniques Using Biodosimetry Based on Cytogenetics. <i>Cancers</i> , 2022, 14, 146.	3.7	1
5	Quantification of Nanoscale Dose Enhancement in Gold Nanoparticle-Aided External Photon Beam Radiotherapy. <i>Cancers</i> , 2022, 14, 2167.	3.7	9
6	Estimation of Cosmic-Ray-Induced Atmospheric Ionization and Radiation at Commercial Aviation Flight Altitudes. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 5297.	2.5	9
7	Geometric distortion assessment in 3T MR images used for treatment planning in cranial Stereotactic Radiosurgery and Radiotherapy. <i>PLoS ONE</i> , 2022, 17, e0268925.	2.5	4
8	Impact of systematic MLC positional uncertainties on the quality of single-isocenter multi-target VMAT-SRS treatment plans. <i>Journal of Applied Clinical Medical Physics</i> , 2022, 23, .	1.9	4
9	Evaluation of patient-specific MR distortion correction schemes for improved target localization accuracy in SRS. <i>Medical Physics</i> , 2021, 48, 1661-1672.	3.0	6
10	G2/M Checkpoint Abrogation With Selective Inhibitors Results in Increased Chromatid Breaks and Radiosensitization of 82-6 hTERT and RPE Human Cells. <i>Frontiers in Public Health</i> , 2021, 9, 675095.	2.7	5
11	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
12	Deformable image registration to assist clinical decision for radiotherapy treatment adaptation for head and neck cancer patients. <i>Biomedical Physics and Engineering Express</i> , 2021, 7, 055012.	1.2	3
13	Lung cancer histology classification from CT images based on radiomics and deep learning models. <i>Medical and Biological Engineering and Computing</i> , 2021, 59, 215-226.	2.8	74
14	Dosimetric evaluation of the Leksell GammaPlan [®] Convolution dose calculation algorithm. <i>Physics in Medicine and Biology</i> , 2020, 65, 045011.	3.0	5
15	Determination of the R2* relaxation rate constant for estimating hepatic iron concentration: A customized approach that considers liver fat infiltration. <i>Physica Medica</i> , 2020, 76, 150-158.	0.7	2
16	ASSESSING RADIATION EXPOSURE INSIDE THE EARTH'S ATMOSPHERE. <i>Radiation Protection Dosimetry</i> , 2020, 190, 427-436.	0.8	9
17	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
18	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.	1.9	32

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19	Treatment plan verification: A review on the comparison of dose distributions. <i>Physica Medica</i> , 2019, 67, 107-115.	0.7	16
20	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
21	Assessment of sequence dependent geometric distortion in contrast-enhanced MR images employed in stereotactic radiosurgery treatment planning. <i>Physics in Medicine and Biology</i> , 2018, 63, 135006.	3.0	10
22	PO-0877: Multi-detector dosimetry for QA in advanced radiotherapy modalities: a comparative study. <i>Radiotherapy and Oncology</i> , 2018, 127, S462-S463.	0.6	0
23	Time resolved dose rate distributions in brachytherapy. <i>Physica Medica</i> , 2017, 41, 13-19.	0.7	4
24	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
25	Monte Carlo and experimental determination of correction factors for gamma knife perfexion small field dosimetry measurements. <i>Physics in Medicine and Biology</i> , 2017, 62, 7532-7555.	3.0	18
26	EP-1726: Efficacy of vendor supplied distortion correction algorithms for a variety of MRI scanners. <i>Radiotherapy and Oncology</i> , 2017, 123, S947-S948.	0.6	1
27	MRI-Related Geometric Distortions in Stereotactic Radiotherapy Treatment Planning: Evaluation and Dosimetric Impact. <i>Technology in Cancer Research and Treatment</i> , 2017, 16, 1120-1129.	1.9	50
28	Review and comparison of geometric distortion correction schemes in MR images used in stereotactic radiosurgery applications. <i>Journal of Physics: Conference Series</i> , 2017, 931, 012031.	0.4	5
29	Influence of multiple brain metastases size and number on the quality of SRS VMAT dose delivery. <i>Journal of Physics: Conference Series</i> , 2017, 931, 012022.	0.4	3
30	On the use of time resolved dose rate distributions in brachytherapy. <i>Physica Medica</i> , 2016, 32, 207-208.	0.7	0
31	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
32	Characterization of system-related geometric distortions in MR images employed in Gamma Knife radiosurgery applications. <i>Physics in Medicine and Biology</i> , 2016, 61, 6993-7011.	3.0	24
33	On source models for ¹⁹² Ir HDR brachytherapy dosimetry using model based algorithms. <i>Physics in Medicine and Biology</i> , 2016, 61, 4235-4246.	3.0	2
34	Biodosimetry for High-Dose Exposures Based on Dicentric Analysis in Lymphocytes Released from the G2-Block by Caffeine. <i>Radiation Protection Dosimetry</i> , 2016, 172, 230-237.	0.8	4
35	On the development of a comprehensive MC simulation model for the Gamma Knife Perfexion radiosurgery unit. <i>Physics in Medicine and Biology</i> , 2016, 61, 1182-1203.	3.0	13
36	Although Non-diagnostic Between Necrosis and Recurrence, FDG PET/CT Assists Management of Brain Tumours After Radiosurgery. <i>In Vivo</i> , 2016, 30, 513-20.	1.3	7

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37	Triage biodosimetry using centromeric/telomeric PNA probes and Giemsa staining to score dicentric or excess fragments in non-stimulated lymphocyte prematurely condensed chromosomes. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2015, 793, 107-114.	1.7	25
38	A Web Simulation of Medical Image Reconstruction and Processing as an Educational Tool. Journal of Digital Imaging, 2015, 28, 24-31.	2.9	8
39	A Simple and Efficient Methodology To Improve Geometric Accuracy in Gamma Knife Radiation Surgery: Implementation in Multiple Brain Metastases. International Journal of Radiation Oncology Biology Physics, 2014, 90, 1234-1241.	0.8	31
40	Anatomy- vs. fluence-based planning for prostate cancer treatments using VMAT. Physica Medica, 2014, 30, 202-208.	0.7	7
41	Current state of the art brachytherapy treatment planning dosimetry algorithms. British Journal of Radiology, 2014, 87, 20140163.	2.2	48
42	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
43	Assessment and characterization of the total geometric uncertainty in Gamma Knife radiosurgery using polymer gels. Medical Physics, 2013, 40, 031704.	3.0	22
44	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
45	Dose and dose averaged LET comparison of ^1H , ^4He , ^6Li , ^8Be , ^{10}B , ^{12}C , ^{14}N , and ^{16}O ion beams forming a spread-out Bragg peak. Medical Physics, 2011, 38, 6585-6591.	3.0	45
46	Dose perturbation in the radiotherapy of breast cancer patients implanted with the MagnaSite: a Monte Carlo study. Journal of Applied Clinical Medical Physics, 2011, 12, 58-70.	1.9	31
47	Monte Carlo estimation of radiation doses during paediatric barium meal and cystourethrography examinations. Physics in Medicine and Biology, 2011, 56, 367-382.	3.0	13
48	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
49	Investigating the Clinical Aspects of Using CT vs. CT-MRI Images during Organ Delineation and Treatment Planning in Prostate Cancer Radiotherapy. Technology in Cancer Research and Treatment, 2011, 10, 231-242.	1.9	16
50	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
51	Real-time imaging for dose evaluation during antiproton irradiation. Physics in Medicine and Biology, 2010, 55, N123-N131.	3.0	8
52	On the implementation of a recently proposed dosimetric formalism to a robotic radiosurgery system. Medical Physics, 2010, 37, 2369-2379.	3.0	55
53	Comparison of optimized single and multifield irradiation plans of antiproton, proton and carbon ion beams. Radiotherapy and Oncology, 2010, 95, 87-93.	0.6	28
54	Gamma Knife output factor measurements using VIP polymer gel dosimetry. Medical Physics, 2009, 36, 4277-4287.	3.0	24

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55	Characterization of a new polymer gel for radiosurgery dosimetry using Magnetic Resonance Imaging. Journal of Instrumentation, 2009, 4, P06018-P06018.	1.2	7
56	On the feasibility of real time imaging in radiotherapy using antiproton beams. Journal of Instrumentation, 2009, 4, P06002-P06002.	1.2	2
57	On the accuracy of a mutual information algorithm for PET-MR image registration. Journal of Instrumentation, 2009, 4, P07008-P07008.	1.2	1
58	SU-FF-T-540: Assessment of Clinical Response Factors of Acoustic Neuromas After Gamma Knife Treatment. Medical Physics, 2009, 36, 2648-2648.	3.0	0
59	Level of patient and operator dose in the largest cardiac centre in Greece. Radiation Protection Dosimetry, 2008, 129, 71-73.	0.8	13
60	Dosimetric characterization of CyberKnife radiosurgical photon beams using polymer gels. Medical Physics, 2008, 35, 2312-2320.	3.0	65
61	COMPARISON OF DOSE FROM RADIOLOGICAL EXAMINATION FOR SCOLIOSIS IN CHILDREN AMONG TWO PEDIATRIC HOSPITALS BY MONTE CARLO SIMULATION. Health Physics, 2008, 94, 471-478.	0.5	18
62	Dosimetric evaluation of a new collimator insert system for stereotactic radiotherapy. British Journal of Radiology, 2007, 80, 446-451.	2.2	2
63	On the use of high dose rate and sources with the MammoSite [®] radiation therapy system. Medical Physics, 2007, 34, 3614-3619.	3.0	11
64	Radiation doses in common X-ray examinations carried out in two dedicated paediatric hospitals. Radiation Protection Dosimetry, 2007, 124, 348-352.	0.8	13
65	Mechanical and dose delivery accuracy evaluation in radiosurgery using polymer gels. Journal of Applied Clinical Medical Physics, 2006, 7, 13-21.	1.9	6
66	RADIATION DOSES TO PATIENTS FROM EXTRACORPOREAL SHOCK WAVE LITHOTRIPSY. Health Physics, 2006, 90, 583-587.	0.5	27
67	Dose characterization of the new Bebig IsoSeed [®] I25.S17 using polymer gel and MRI. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2006, 569, 529-532.	1.6	6
68	Fast, three-dimensional, MR Imaging for polymer gel dosimetric applications involving high dose and steep dose gradients. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2006, 569, 572-576.	1.6	9
69	Polymer gel dosimetry for the TG-43 dosimetric characterization of a new ¹²⁵ I interstitial brachytherapy seed. Physics in Medicine and Biology, 2006, 51, 2101-2111.	3.0	22
70	A dosimetric comparison of Yb169 and Ir192 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
71	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
72	Quality assurance of Siemen's virtual wedge TM by using film dosimetry. Physica Medica, 2005, 21, 65-67.	0.7	1

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73	Technical note: evaluation of dosimetric performance in a commercial 3D treatment planning system. British Journal of Radiology, 2005, 78, 899-905.	2.2	4
74	Monte Carlo and thermoluminescence dosimetry of the new IsoSeed [®] model I25.S17 I125 interstitial brachytherapy seed. Medical Physics, 2005, 32, 3313-3317.	3.0	15
75	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
76	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
77	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. Physics in Medicine and Biology, 2004, 49, 55-67.	3.0	18
78	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
79	Registration of electronic portal images for patient set-up verification. Physics in Medicine and Biology, 2004, 49, 3279-3289.	3.0	21
80	Dose verification in clinical imrt prostate incidents. International Journal of Radiation Oncology Biology Physics, 2004, 59, 1540-1547.	0.8	63
81	Monte Carlo dosimetry of ⁶⁰ Co HDR brachytherapy sources. Medical Physics, 2003, 30, 712-721.	3.0	40
82	3D dose verification in ¹⁹² Ir HDR prostate monotherapy using polymer gels and MRI. Medical Physics, 2003, 30, 2031-2039.	3.0	36
83	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
84	Polymer gel dosimetry using a three-dimensional MRI acquisition technique. Medical Physics, 2002, 29, 2506-2516.	3.0	27
85	Thermoluminescent dosimetry of the selectSeed 125I interstitial brachytherapy seed. Medical Physics, 2002, 29, 709-716.	3.0	37
86	Monte Carlo dosimetry of a new ¹⁹² Ir pulsed dose rate brachytherapy source. Medical Physics, 2002, 30, 9-16.	3.0	58
87	Dosimetric calculations and VIPAR polymer gel dosimetry close to the microSelectron HDR. Zeitschrift Fur Medizinische Physik, 2002, 12, 252-259.	1.5	7
88	Dosimetry comparison of ¹⁹² Ir Sources. Medical Physics, 2002, 29, 2239-2246.	3.0	45
89	Results from the TARC experiment: spallation neutron phenomenology in lead and neutron-driven nuclear transmutation by adiabatic resonance crossing. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2002, 478, 577-730.	1.6	67
90	On the dosimetric accuracy of a Sievert integration model in the proximity of ¹⁹² Ir HDR sources. International Journal of Radiation Oncology Biology Physics, 2002, 53, 1071-1084.	0.8	8

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91	Monte Carlo dosimetry of the selectSeed 125I interstitial brachytherapy seed. Medical Physics, 2001, 28, 1753-1760.	3.0	56
92	Wide dynamic dose range of VIPAR polymer gel dosimetry. Physics in Medicine and Biology, 2001, 46, 2143-2159.	3.0	46
93	Bladder Wall Dosimetry for 131I Administered Activities. Radiation Protection Dosimetry, 2001, 95, 109-116.	0.8	1
94	Dosimetry close to an 192Ir HDR source using N-vinylpyrrolidone based polymer gels and magnetic resonance imaging. Medical Physics, 2001, 28, 1416-1426.	3.0	38
95	Dosimetry of 192Ir wires for LDR interstitial brachytherapy following the AAPM TG-43 dosimetric formalism. Medical Physics, 2001, 28, 156-166.	3.0	21
96	Beta versus gamma dosimetry close to Ir-192 brachytherapy sources. Medical Physics, 2001, 28, 1875-1882.	3.0	55
97	Radiation Dose to Bladder Wall from Technetium-99m Accumulated in the Bladder Contents. Radiation Protection Dosimetry, 2000, 87, 281-286.	0.8	1
98	Limitations of the point and line source approximations for the determination of geometry factors around brachytherapy sources. Medical Physics, 2000, 27, 124-128.	3.0	38
99	Dose rate calculations around 192Ir brachytherapy sources using a Sievert integration model. Physics in Medicine and Biology, 2000, 45, 383-398.	3.0	26
100	Monte Carlo dosimetry of a new 192Ir high dose rate brachytherapy source. Medical Physics, 2000, 27, 2521-2527.	3.0	94
101	A Monte Carlo investigation of the dosimetric characteristics of the VariSource 192Ir high dose rate brachytherapy source. Medical Physics, 1999, 26, 1498-1502.	3.0	33
102	Experimental verification of neutron phenomenology in lead and transmutation by adiabatic resonance crossing in accelerator driven systems. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1999, 458, 167-180.	4.1	42
103	Indoor Radiation Measurements in Greece. Radiation Protection Dosimetry, 1999, 82, 307-312.	0.8	2
104	Monte Carlo and TLD dosimetry of an 192Ir high dose-rate brachytherapy source. Medical Physics, 1998, 25, 1975-1984.	3.0	84