

Niko Papanikolaou

List of Publications by Year in descending order

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44
papers

1,050
citations

516710

16
h-index

414414

32
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45
all docs

45
docs citations

45
times ranked

1047
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantifying false positional corrections due to facial motion using SCRT with open-face Masks. Journal of Applied Clinical Medical Physics, 2021, 22, 172-183.	1.9	7
2	IDDRRA: A novel platform, based on Geant4-DNA to quantify DNA damage by ionizing radiation. Medical Physics, 2021, 48, 2624-2636.	3.0	9
3	Report of AAPM Task Group 219 on independent calculation-based dose/MU verification for IMRT. Medical Physics, 2021, 48, e808-e829.	3.0	50
4	Managing tumor changes during radiotherapy using a deep learning model. Medical Physics, 2021, 48, 5152-5164.	3.0	3
5	A customizable aluminum compensator system for total body irradiation. Journal of Applied Clinical Medical Physics, 2021, 22, 36-44.	1.9	1
6	Technical Note: Film-based measurement of gold nanoparticle dose enhancement for 192 Ir. Medical Physics, 2020, 47, 260-266.	3.0	4
7	Patient-specific dose quality assurance of single-isocenter multiple brain metastasis stereotactic radiosurgery using PTW Octavius 4D. Journal of Applied Clinical Medical Physics, 2020, 21, 107-115.	1.9	8
8	An open-source tool to visualize potential cone collisions while planning SRS cases. Journal of Applied Clinical Medical Physics, 2020, 21, 40-47.	1.9	1
9	Evaluation of the Elekta Agility MLC performance using high-resolution log files. Medical Physics, 2019, 46, 1397-1407.	3.0	18
10	VMAT Optimization and Dose Calculation in the Presence of Metallic Hip Prostheses. Technology in Cancer Research and Treatment, 2019, 18, 153303381989225.	1.9	9
11	Quantification of DNA double-strand breaks using Geant4-DNA. Medical Physics, 2019, 46, 405-413.	3.0	23
12	Correlation between biological effective dose and radiation-induced liver disease from hypofractionated radiotherapy. Journal of Medical Physics, 2019, 44, 185.	0.3	3
13	Clinical Evaluation of a Two-dimensional Liquid-Filled Ion chamber Detector Array for Verification of High Modulation Small Fields in Radiotherapy. Journal of Medical Physics, 2019, 44, 91-98.	0.3	2
14	Dosimetric and localization accuracy of Elekta high definition dynamic radiosurgery. Physica Medica, 2018, 54, 146-151.	0.7	13
15	Dosimetric Evaluation of Pinnacle's Automated Treatment Planning Software to Manually Planned Treatments. Technology in Cancer Research and Treatment, 2018, 17, 153303381878006.	1.9	6
16	DNA double-strand breaks as a method of radiation measurements for therapeutic beams. Medical Physics, 2018, 45, 3460-3465.	3.0	14
17	Abstract ID: 75 Validating Geant4-DNA for Double Strand Brakes (DSB): A preliminary study. Physica Medica, 2017, 42, 14-15.	0.7	1
18	Dosimetric validation of Monaco treatment planning system on an Elekta Versa HD linear accelerator. Journal of Applied Clinical Medical Physics, 2017, 18, 123-129.	1.9	19

#	ARTICLE	IF	CITATIONS
19	A Systematic Analysis of 2 Monoisocentric Techniques for the Treatment of Multiple Brain Metastases. <i>Technology in Cancer Research and Treatment</i> , 2017, 16, 639-644.	1.9	21
20	Commissioning an Elekta Versa HD linear accelerator. <i>Journal of Applied Clinical Medical Physics</i> , 2016, 17, 179-191.	1.9	39
21	A graphical user interface (GUI) toolkit for the calculation of three-dimensional (3D) multi-phase biological effective dose (BED) distributions including statistical analyses. <i>Computer Methods and Programs in Biomedicine</i> , 2016, 131, 1-12.	4.7	2
22	Comparison of composite prostate radiotherapy plan doses with dependent and independent boost phases. <i>Australasian Physical and Engineering Sciences in Medicine</i> , 2016, 39, 727-733.	1.3	0
23	Flattening filter-free accelerators: a report from the AAPM Therapy Emerging Technology Assessment Work Group. <i>Journal of Applied Clinical Medical Physics</i> , 2015, 16, 12-29.	1.9	144
24	Patient specific IMRT quality assurance with film, ionization chamber and detector arrays: Our institutional experience. <i>Radiation Physics and Chemistry</i> , 2015, 115, 12-16.	2.8	7
25	Consequences of anorectal cancer atlas implementation in the cooperative group setting: Radiobiologic analysis of a prospective randomized in silico target delineation study. <i>Radiotherapy and Oncology</i> , 2014, 112, 418-424.	0.6	17
26	$\hat{\beta}^+$ index: A new evaluation parameter for quantitative quality assurance. <i>Computer Methods and Programs in Biomedicine</i> , 2014, 114, 60-69.	4.7	5
27	Inclusion of radiobiological factors in prostate brachytherapy treatment planning. <i>Journal of Radiotherapy in Practice</i> , 2013, 12, 163-172.	0.5	1
28	A phantom-based evaluation of a real-time tracking micro MLC delivery. <i>International Journal of Biomedical Engineering and Technology</i> , 2012, 8, 274.	0.2	0
29	DART, a platform for the creation and registration of cone beam digital tomosynthesis datasets. <i>Australasian Physical and Engineering Sciences in Medicine</i> , 2011, 34, 5-13.	1.3	2
30	Prospective Randomized Double-Blind Pilot Study of Site-Specific Consensus Atlas Implementation for Rectal Cancer Target Volume Delineation in the Cooperative Group Setting. <i>International Journal of Radiation Oncology Biology Physics</i> , 2011, 79, 481-489.	0.8	79
31	Implementation of a lateral total body irradiation technique with 6 MV photons: The University of Texas Health Science Center in San Antonio experience. <i>Journal of Radiotherapy in Practice</i> , 2011, 10, 45-54.	0.5	10
32	A graphic user interface toolkit for specification, report and comparison of dose-response relations and treatment plans using the biologically effective uniform dose. <i>Computer Methods and Programs in Biomedicine</i> , 2010, 100, 69-78.	4.7	11
33		3.0	218
34	The inter- and intrafraction reproducibilities of three common IMRT delivery techniques. <i>Medical Physics</i> , 2010, 37, 4854-4860.	3.0	11
35	Delivery of four-dimensional radiotherapy with TrackBeam for moving target using a dual-layer MLC: dynamic phantoms study. <i>Journal of Applied Clinical Medical Physics</i> , 2009, 10, 21-33.	1.9	20
36	Treatment planning and delivery of IMRT using 6 and 18MV photon beams without flattening filter. <i>Applied Radiation and Isotopes</i> , 2009, 67, 1629-1637.	1.5	62

#	ARTICLE	IF	CITATIONS
37	Dosimetric evaluation of multi-pattern spatially fractionated radiation therapy using a multi-leaf collimator and collapsed cone convolution superposition dose calculation algorithm. Applied Radiation and Isotopes, 2009, 67, 1939-1944.	1.5	12
38	The effect of a limited number of projections and reconstruction algorithms on the image quality of megavoltage digital tomosynthesis. Journal of Applied Clinical Medical Physics, 2009, 10, 155-172.	1.9	10
39	Clinical application of GAFCHROMIC® EBT film for in vivo dose measurements of total body irradiation radiotherapy. Applied Radiation and Isotopes, 2008, 66, 389-394.	1.5	32
40	Image-guidance protocol comparison: Supine and prone set-up accuracy for pelvic radiation therapy. Acta Oncologica, 2008, 47, 1344-1350.	1.8	24
41	Dosimetric characteristics of dual-layer multileaf collimation for small-field and intensity-modulated radiation therapy applications. Journal of Applied Clinical Medical Physics, 2008, 9, 15-29.	1.9	19
42	Dosimetry characteristics of GAFCHROMIC® EBT film responding to therapeutic electron beams. Applied Radiation and Isotopes, 2007, 65, 1187-1192.	1.5	61
43	Monte Carlo characterization of target doses in stereotactic body radiation therapy (SBRT). Acta Oncologica, 2006, 45, 989-994.	1.8	23
44	Tomotherapeutic stereotactic body radiation therapy: Techniques and comparison between modalities. Acta Oncologica, 2006, 45, 953-960.	1.8	29