Niko Papanikolaou

List of Publications by Year
in descending order

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44	1,050	516710 16	414414 32
papers	citations	h-index	g-index

45	45	45	1047
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1		3.0	218
2	Flattening filterâ€free accelerators: a report from the AAPM Therapy Emerging Technology Assessment Work Group. Journal of Applied Clinical Medical Physics, 2015, 16, 12-29.	1.9	144
3	Prospective Randomized Double-Blind Pilot Study of Site-Specific Consensus Atlas Implementation for Rectal Cancer Target Volume Delineation in the Cooperative Group Setting. International Journal of Radiation Oncology Biology Physics, 2011, 79, 481-489.	0.8	79
4	Treatment planning and delivery of IMRT using 6 and 18MV photon beams without flattening filter. Applied Radiation and Isotopes, 2009, 67, 1629-1637.	1.5	62
5	Dosimetry characteristics of GAFCHROMICÂ® EBT film responding to therapeutic electron beams. Applied Radiation and Isotopes, 2007, 65, 1187-1192.	1.5	61
6	Report of AAPM Task Group 219 on independent calculationâ€based dose/MU verification for IMRT. Medical Physics, 2021, 48, e808-e829.	3.0	50
7	Commissioning an Elekta Versa HD linear accelerator. Journal of Applied Clinical Medical Physics, 2016, 17, 179-191.	1.9	39
8	Clinical application of GAFCHROMICÂ® EBT film for in vivo dose measurements of total body irradiation radiotherapy. Applied Radiation and Isotopes, 2008, 66, 389-394.	1.5	32
9	Tomotherapeutic stereotactic body radiation therapy: Techniques and comparison between modalities. Acta OncolÃ³gica, 2006, 45, 953-960.	1.8	29
10	Image-guidance protocol comparison: Supine and prone set-up accuracy for pelvic radiation therapy. Acta OncolÃ³gica, 2008, 47, 1344-1350.	1.8	24
11	Monte Carlo characterization of target doses in stereotactic body radiation therapy (SBRT). Acta OncolÃ³gica, 2006, 45, 989-994.	1.8	23
12	Quantification of <scp>DNA</scp> doubleâ€strand breaks using Geant4â€<scp>DNA</scp>. Medical Physics, 2019, 46, 405-413.	3.0	23
13	A Systematic Analysis of 2 Monoisocentric Techniques for the Treatment of Multiple Brain Metastases. Technology in Cancer Research and Treatment, 2017, 16, 639-644.	1.9	21
14	Delivery of fourâ€dimensional radiotherapy with TrackBeam for moving target using a dualâ€layer MLC: dynamic phantoms study. Journal of Applied Clinical Medical Physics, 2009, 10, 21-33.	1.9	20
15	Dosimetric characteristics of dualâ€layer multileaf collimation for smallâ€field and intensityâ€modulated radiation therapy applications. Journal of Applied Clinical Medical Physics, 2008, 9, 15-29.	1.9	19
16	Dosimetric validation of Monaco treatment planning system on an Elekta Versa<scp>HD</scp> linear accelerator. Journal of Applied Clinical Medical Physics, 2017, 18, 123-129.	1.9	19
17	Evaluation of the Elekta Agility <scp>MLC</scp> performance using highâ€resolution log files. Medical Physics, 2019, 46, 1397-1407.	3.0	18
18	Consequences of anorectal cancer atlas implementation in the cooperative group setting: Radiobiologic analysis of a prospective randomized in silico target delineation study. Radiotherapy and Oncology, 2014, 112, 418-424.	0.6	17

#	Article	IF	Citations
19	DNA doubleâ€strand breaks as a method of radiation measurements for therapeutic beams. Medical Physics, 2018, 45, 3460-3465.	3.0	14
20	Dosimetric and localization accuracy of Elekta high definition dynamic radiosurgery. Physica Medica, 2018, 54, 146-151.	0.7	13
21	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
22	A graphic user interface toolkit for specification, report and comparison of doseâ€“response relations and treatment plans using the biologically effective uniform dose. Computer Methods and Programs in Biomedicine, 2010, 100, 69-78.	4.7	11
23	The interâ€and intrafraction reproducibilities of three common IMRT delivery techniques. Medical Physics, 2010, 37, 4854-4860.	3.0	11
24	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
25	Implementation of a lateral total body irradiation technique with 6 MV photons: The University of Texas Health Science Center in San Antonio experience. Journal of Radiotherapy in Practice, 2011, 10, 45-54.	0.5	10
26	VMAT Optimization and Dose Calculation in the Presence of Metallic Hip Prostheses. Technology in Cancer Research and Treatment, 2019, 18, 153303381989225.	1.9	9
27	IDDRRA: A novel platform, based on Geant4â€DNA to quantify DNA damage by ionizing radiation. Medical Physics, 2021, 48, 2624-2636.	3.0	9
28	Patientâ€specific dose quality assurance of singleâ€isocenter multiple brain metastasis stereotactic radiosurgery using PTW Octavius 4D. Journal of Applied Clinical Medical Physics, 2020, 21, 107-115.	1.9	8
29	Patient specific IMRT quality assurance with film, ionization chamber and detector arrays: Our institutional experience. Radiation Physics and Chemistry, 2015, 115, 12-16.	2.8	7
30	Quantifying false positional corrections due to facial motion using SGRT with openâ€face Masks. Journal of Applied Clinical Medical Physics, 2021, 22, 172-183.	1.9	7
31	Dosimetric Evaluation of Pinnacleâ€™s Automated Treatment Planning Software to Manually Planned Treatments. Technology in Cancer Research and Treatment, 2018, 17, 153303381878006.	1.9	6
32	Î³+ index: A new evaluation parameter for quantitative quality assurance. Computer Methods and Programs in Biomedicine, 2014, 114, 60-69.	4.7	5
33	Technical Note: Filmâ€based measurement of gold nanoparticle dose enhancement for 192 Ir. Medical Physics, 2020, 47, 260-266.	3.0	4
34	Managing tumor changes during radiotherapy using a deep learning model. Medical Physics, 2021, 48, 5152-5164.	3.0	3
35	Correlation between biological effective dose and radiation-induced liver disease from hypofractionated radiotherapy. Journal of Medical Physics, 2019, 44, 185.	0.3	3
36	DART, a platform for the creation and registration of cone beam digital tomosynthesis datasets. Australasian Physical and Engineering Sciences in Medicine, 2011, 34, 5-13.	1.3	2

#	Article	IF	Citations
37	A graphical user interface (GUI) toolkit for the calculation of three-dimensional (3D) multi-phase biological effective dose (BED) distributions including statistical analyses. Computer Methods and Programs in Biomedicine, 2016, 131, 1-12.	4.7	2
38	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
39	Inclusion of radiobiological factors in prostate brachytherapy treatment planning. Journal of Radiotherapy in Practice, 2013, 12, 163-172.	0.5	1
40	Abstract ID: 75 Validating Geant4-DNA for Double Strand Brakes (DSB): A preliminary study. Physica Medica, 2017, 42, 14-15.	0.7	1
41	An openâ€source tool to visualize potential cone collisions while planning SRS cases. Journal of Applied Clinical Medical Physics, 2020, 21, 40-47.	1.9	1
42	A customizable aluminum compensator system for total body irradiation. Journal of Applied Clinical Medical Physics, 2021, 22, 36-44.	1.9	1
43	A phantom-based evaluation of a real-time tracking micro MLC delivery. International Journal of Biomedical Engineering and Technology, 2012, 8, 274.	0.2	0
44	Comparison of composite prostate radiotherapy plan doses with dependent and independent boost phases. Australasian Physical and Engineering Sciences in Medicine, 2016, 39, 727-733.	1.3	0