

Rick D Franich

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5685815/publications.pdf>

Version: 2024-02-01

48
papers

985
citations

586496

16
h-index

511568

30
g-index

48
all docs

48
docs citations

48
times ranked

1112
citing authors

#	ARTICLE	IF	CITATIONS
1	MaxiCalc: A tool for online dosimetric evaluation of source-tracking based treatment verification in HDR brachytherapy. <i>Physica Medica</i> , 2022, 94, 58-64.	0.4	4
2	Oxidative Damage to Mitochondria Enhanced by Ionising Radiation and Gold Nanoparticles in Cancer Cells. <i>International Journal of Molecular Sciences</i> , 2022, 23, 6887.	1.8	15
3	A validation framework to assess performance of commercial deformable image registration in lung radiotherapy. <i>Physica Medica</i> , 2021, 87, 106-114.	0.4	5
4	Out-of-field dose in stereotactic radiotherapy for paediatric patients. <i>Physics and Imaging in Radiation Oncology</i> , 2021, 19, 1-5.	1.2	1
5	Additive Manufacture of Lung Equivalent Anthropomorphic Phantoms: A Method to Control Hounsfield Number Utilizing Partial Volume Effect. <i>Journal of Engineering and Science in Medical Diagnostics and Therapy</i> , 2020, 3, .	0.3	12
6	Data-driven Optimisation of in vivo Radioactive Source-tracking for Real-time Cancer Radiotherapy Treatment Verification. , 2020, , .		0
7	Nanoparticle dose enhancement of synchrotron radiation in PRESAGE dosimeters. <i>Journal of Synchrotron Radiation</i> , 2020, 27, 1590-1600.	1.0	4
8	Water equivalent $\langle \text{PRESAGE} \rangle^{\hat{A}}$ for synchrotron radiation therapy dosimetry. <i>Medical Physics</i> , 2018, 45, 1255-1265.	1.6	7
9	Assessment of leakage dose in vivo in patients undergoing radiotherapy for breast cancer. <i>Physics and Imaging in Radiation Oncology</i> , 2018, 5, 97-101.	1.2	4
10	An integrated system for clinical treatment verification of HDR prostate brachytherapy combining source tracking with pretreatment imaging. <i>Brachytherapy</i> , 2018, 17, 111-121.	0.2	32
11	Activation of hip prostheses in high energy radiotherapy and resultant dose to nearby tissue. <i>Journal of Applied Clinical Medical Physics</i> , 2017, 18, 100-105.	0.8	2
12	3D catheter reconstruction in HDR prostate brachytherapy for pre-treatment verification using a flat panel detector. <i>Physica Medica</i> , 2017, 39, 121-131.	0.4	10
13	Surface dose measurements in and out of field: Implications for breast radiotherapy with megavoltage photon beams. <i>Zeitschrift Fur Medizinische Physik</i> , 2017, 27, 318-323.	0.6	7
14	Clinical Application of Pre-Treatment Image Verification of Catheter Positions for HDR Prostate Brachytherapy. <i>Brachytherapy</i> , 2017, 16, S114-S115.	0.2	2
15	Commissioning of a $\langle \text{PTW} \rangle$ 34070 large area plane parallel ionization chamber for small field megavoltage photon dosimetry. <i>Journal of Applied Clinical Medical Physics</i> , 2017, 18, 206-217.	0.8	11
16	Asymmetric breast dose in coronary angiography. <i>Journal of Applied Clinical Medical Physics</i> , 2016, 17, 532-541.	0.8	0
17	A method for verification of treatment delivery in HDR prostate brachytherapy using a flat panel detector for both imaging and source tracking. <i>Medical Physics</i> , 2016, 43, 2435-2442.	1.6	20
18	The Importance of Quasi-4D Path-Integrated Dose Accumulation for More Accurate Risk Estimation in Stereotactic Liver Radiotherapy. <i>Technology in Cancer Research and Treatment</i> , 2016, 15, 428-436.	0.8	2

#	ARTICLE	IF	CITATIONS
19	High resolution 3D imaging of synchrotron generated microbeams. <i>Medical Physics</i> , 2015, 42, 6973-6986.	1.6	15
20	Additive manufacture of custom radiation dosimetry phantoms: An automated method compatible with commercial polymer 3D printers. <i>Materials and Design</i> , 2015, 86, 487-499.	3.3	48
21	The influence of the dwell time deviation constraint (DTDC) parameter on dosimetry with IPSA optimisation for HDR prostate brachytherapy. <i>Australasian Physical and Engineering Sciences in Medicine</i> , 2015, 38, 55-61.	1.4	15
22	Evaluation of dosimetric misrepresentations from 3D conventional planning of liver SBRT using 4D deformable dose integration. <i>Journal of Applied Clinical Medical Physics</i> , 2014, 15, 188-203.	0.8	11
23	The influence of field size on stoppingâ€power ratios inâ€and outâ€ofâ€field: quantitative data for the BrainLAB m3 microâ€multileaf collimator. <i>Journal of Applied Clinical Medical Physics</i> , 2012, 13, 354-362.	0.8	2
24	A phantom for verification of dwell position and time of a high dose rate brachytherapy source. <i>Australasian Physical and Engineering Sciences in Medicine</i> , 2012, 35, 335-339.	1.4	1
25	Assessment of leakage doses around the treatment heads of different linear accelerators. <i>Radiation Protection Dosimetry</i> , 2012, 152, 304-312.	0.4	23
26	A phantom for testing of 4Dâ€CT for radiotherapy of small lesions. <i>Medical Physics</i> , 2012, 39, 5372-5383.	1.6	11
27	Monte Carlo verification of gel dosimetry measurements for stereotactic radiotherapy. <i>Physics in Medicine and Biology</i> , 2012, 57, 3359-3369.	1.6	17
28	Is it sensible to â€deformâ€dose? 3D experimental validation of doseâ€warping. <i>Medical Physics</i> , 2012, 39, 5065-5072.	1.6	77
29	A novel methodology for 3D deformable dosimetry. <i>Medical Physics</i> , 2012, 39, 2203-2213.	1.6	69
30	Robust calculation of effective atomic numbers: The Autoâ€Z _{eff} software. <i>Medical Physics</i> , 2012, 39, 1769-1778.	1.6	241
31	A programmable motion phantom for quality assurance of motion management in radiotherapy. <i>Australasian Physical and Engineering Sciences in Medicine</i> , 2012, 35, 93-100.	1.4	24
32	Determination of peripheral underdosage at the lung-tumor interface using Monte Carlo radiation transport calculations. <i>Medical Dosimetry</i> , 2012, 37, 61-66.	0.4	8
33	Evaluation of EBT radiochromic film using a multiple exposure technique. <i>Australasian Physical and Engineering Sciences in Medicine</i> , 2011, 34, 281-289.	1.4	5
34	A hybrid radiation detector for simultaneous spatial and temporal dosimetry. <i>Australasian Physical and Engineering Sciences in Medicine</i> , 2011, 34, 327-332.	1.4	4
35	Assessment of Out-of-Field Doses in Radiotherapy of Brain Lesions in Children. <i>International Journal of Radiation Oncology Biology Physics</i> , 2011, 79, 927-933.	0.4	25
36	A contemporary review of stereotactic radiotherapy: Inherent dosimetric complexities and the potential for detriment. <i>Acta OncolÃ³gica</i> , 2011, 50, 483-508.	0.8	58

#	ARTICLE	IF	CITATIONS
37	Technical Note: Modeling a complex micro-multileaf collimator using the standard BEAMnrc distribution. <i>Medical Physics</i> , 2010, 37, 1761-1767.	1.6	23
38	A Comparative Study of the Effect of Calibration Conditions on the Water Equivalence of a Range of Gel Dosimeters. <i>IEEE Transactions on Nuclear Science</i> , 2009, 56, 429-436.	1.2	9
39	An in vivo investigative protocol for HDR prostate brachytherapy using urethral and rectal thermoluminescence dosimetry. <i>Radiotherapy and Oncology</i> , 2009, 91, 243-248.	0.3	35
40	The effective atomic number of dosimetric gels. <i>Australasian Physical and Engineering Sciences in Medicine</i> , 2008, 31, 131-138.	1.4	50
41	In vitro dissolution studies of uranium bearing material in simulated lung fluid. <i>Journal of Environmental Radioactivity</i> , 2008, 99, 527-538.	0.9	18
42	Scanning Transmission Ion Microscopy of Nanoscale Apertures. <i>Journal of the Korean Physical Society</i> , 2008, 53, 3704-3708.	0.3	4
43	Systematic variations in polymer gel dosimeter calibration due to container influence and deviations from water equivalence. <i>Physics in Medicine and Biology</i> , 2007, 52, 3991-4005.	1.6	24
44	A comparative study of the effect of calibration conditions on the water equivalence of a range of gel dosimeters. , 2007, , .		0
45	An experimental MOSFET approach to characterize ¹⁹² Ir HDR source anisotropy. <i>Physics in Medicine and Biology</i> , 2007, 52, 5329-5339.	1.6	7
46	Ion beam lithography using a nano-aperture. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2007, 260, 426-430.	0.6	9
47	Ion transmission through nano-apertures. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2006, 249, 752-755.	0.6	9
48	Efficient Monte Carlo simulation of heavy ion elastic recoil detection analysis spectra. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2004, 219-220, 87-94.	0.6	5