

# Rick D Franich

## 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.

45  
papers

793  
citations

14  
h-index

27  
g-index

48  
ext. papers

891  
ext. citations

2.7  
avg, IF

3.83  
L-index

#	Paper	IF	Citations
45	MaxiCalc: A tool for online dosimetric evaluation of source-tracking based treatment verification in HDR brachytherapy.. <i>Physica Medica</i> , <b>2022</b> , 94, 58-64	2.7	1
44	A validation framework to assess performance of commercial deformable image registration in lung radiotherapy. <i>Physica Medica</i> , <b>2021</b> , 87, 106-114	2.7	0
43	Out-of-field dose in stereotactic radiotherapy for paediatric patients. <i>Physics and Imaging in Radiation Oncology</i> , <b>2021</b> , 19, 1-5	3.1	
42	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> , <b>2020</b> , 3,	1	5
41	Nanoparticle dose enhancement of synchrotron radiation in PRESAGE dosimeters. <i>Journal of Synchrotron Radiation</i> , <b>2020</b> , 27, 1590-1600	2.4	1
40	Water equivalent PRESAGE for synchrotron radiation therapy dosimetry. <i>Medical Physics</i> , <b>2018</b> , 45, 1255-1265	4.6	6
39	Assessment of leakage dose in patients undergoing radiotherapy for breast cancer. <i>Physics and Imaging in Radiation Oncology</i> , <b>2018</b> , 5, 97-101	3.1	2
38	An integrated system for clinical treatment verification of HDR prostate brachytherapy combining source tracking with pretreatment imaging. <i>Brachytherapy</i> , <b>2018</b> , 17, 111-121	2.4	14
37	Activation of hip prostheses in high energy radiotherapy and resultant dose to nearby tissue. <i>Journal of Applied Clinical Medical Physics</i> , <b>2017</b> , 18, 100-105	2.3	0
36	3D catheter reconstruction in HDR prostate brachytherapy for pre-treatment verification using a flat panel detector. <i>Physica Medica</i> , <b>2017</b> , 39, 121-131	2.7	7
35	Surface dose measurements in and out of field: Implications for breast radiotherapy with megavoltage photon beams. <i>Zeitschrift Fur Medizinische Physik</i> , <b>2017</b> , 27, 318-323	7.6	4
34	Clinical Application of Pre-Treatment Image Verification of Catheter Positions for HDR Prostate Brachytherapy. <i>Brachytherapy</i> , <b>2017</b> , 16, S114-S115	2.4	2
33	Commissioning of a PTW 34070 large-area plane-parallel ionization chamber for small field megavoltage photon dosimetry. <i>Journal of Applied Clinical Medical Physics</i> , <b>2017</b> , 18, 206-217	2.3	8
32	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> , <b>2016</b> , 15, 428-36	2.7	1
31	Asymmetric breast dose in coronary angiography. <i>Journal of Applied Clinical Medical Physics</i> , <b>2016</b> , 17, 532-541	2.3	
30	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> , <b>2016</b> , 43, 2435	4.4	15
29	Additive manufacture of custom radiation dosimetry phantoms: An automated method compatible with commercial polymer 3D printers. <i>Materials and Design</i> , <b>2015</b> , 86, 487-499	8.1	34

28	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> , <b>2015</b> , 38, 55-61	1.9	14
27	High resolution 3D imaging of synchrotron generated microbeams. <i>Medical Physics</i> , <b>2015</b> , 42, 6973-86	4.4	13
26	Evaluation of dosimetric misrepresentations from 3D conventional planning of liver SBRT using 4D deformable dose integration. <i>Journal of Applied Clinical Medical Physics</i> , <b>2014</b> , 15, 4978	2.3	9
25	Determination of peripheral underdosage at the lung-tumor interface using Monte Carlo radiation transport calculations. <i>Medical Dosimetry</i> , <b>2012</b> , 37, 61-6	1.3	6
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> , <b>2012</b> , 35, 335-9	1.9	1
23	Assessment of leakage doses around the treatment heads of different linear accelerators. <i>Radiation Protection Dosimetry</i> , <b>2012</b> , 152, 304-12	0.9	21
22	A phantom for testing of 4D-CT for radiotherapy of small lesions. <i>Medical Physics</i> , <b>2012</b> , 39, 5372-83	4.4	8
21	Monte Carlo verification of gel dosimetry measurements for stereotactic radiotherapy. <i>Physics in Medicine and Biology</i> , <b>2012</b> , 57, 3359-69	3.8	17
20	Is it sensible to "deform" dose? 3D experimental validation of dose-warping. <i>Medical Physics</i> , <b>2012</b> , 39, 5065-72	4.4	66
19	A novel methodology for 3D deformable dosimetry. <i>Medical Physics</i> , <b>2012</b> , 39, 2203-13	4.4	58
18	Robust calculation of effective atomic numbers: the Auto-Z(eff) software. <i>Medical Physics</i> , <b>2012</b> , 39, 1769-78	4.4	202
17	A programmable motion phantom for quality assurance of motion management in radiotherapy. <i>Australasian Physical and Engineering Sciences in Medicine</i> , <b>2012</b> , 35, 93-100	1.9	20
16	The influence of field size on stopping-power ratios in- and out-of-field: quantitative data for the BrainLAB m3 micro-multileaf collimator. <i>Journal of Applied Clinical Medical Physics</i> , <b>2012</b> , 13, 4019	2.3	2
15	Evaluation of EBT radiochromic film using a multiple exposure technique. <i>Australasian Physical and Engineering Sciences in Medicine</i> , <b>2011</b> , 34, 281-9	1.9	3
14	A hybrid radiation detector for simultaneous spatial and temporal dosimetry. <i>Australasian Physical and Engineering Sciences in Medicine</i> , <b>2011</b> , 34, 327-32	1.9	3
13	Assessment of out-of-field doses in radiotherapy of brain lesions in children. <i>International Journal of Radiation Oncology Biology Physics</i> , <b>2011</b> , 79, 927-33	4	23
12	A contemporary review of stereotactic radiotherapy: inherent dosimetric complexities and the potential for detriment. <i>Acta Oncologica</i> , <b>2011</b> , 50, 483-508	3.2	52
11	Modeling a complex micro-multileaf collimator using the standard BEAMnrc distribution. <i>Medical Physics</i> , <b>2010</b> , 37, 1761-7	4.4	23

10	. <i>IEEE Transactions on Nuclear Science</i> , <b>2009</b> , 56, 429-436	1.7	9
9	An in vivo investigative protocol for HDR prostate brachytherapy using urethral and rectal thermoluminescence dosimetry. <i>Radiotherapy and Oncology</i> , <b>2009</b> , 91, 243-8	5.3	32
8	The effective atomic number of dosimetric gels. <i>Australasian Physical and Engineering Sciences in Medicine</i> , <b>2008</b> , 31, 131-8	1.9	46
7	In vitro dissolution studies of uranium bearing material in simulated lung fluid. <i>Journal of Environmental Radioactivity</i> , <b>2008</b> , 99, 527-38	2.4	13
6	Scanning Transmission Ion Microscopy of Nanoscale Apertures. <i>Journal of the Korean Physical Society</i> , <b>2008</b> , 53, 3704-3708	0.6	3
5	Ion beam lithography using a nano-aperture. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2007</b> , 260, 426-430	1.2	9
4	Systematic variations in polymer gel dosimeter calibration due to container influence and deviations from water equivalence. <i>Physics in Medicine and Biology</i> , <b>2007</b> , 52, 3991-4005	3.8	19
3	An experimental MOSFET approach to characterize (192)Ir HDR source anisotropy. <i>Physics in Medicine and Biology</i> , <b>2007</b> , 52, 5329-39	3.8	6
2	Ion transmission through nano-apertures. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2006</b> , 249, 752-755	1.2	8
1	Efficient Monte Carlo simulation of heavy ion elastic recoil detection analysis spectra. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2004</b> , 219-220, 87-94	1.2	5