

L John Schreiner

List of Publications by Citations

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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.

113
papers

2,167
citations

22
h-index

44
g-index

121
ext. papers

2,357
ext. citations

2.3
avg, IF

4.72
L-index

#	Paper	IF	Citations
113	Polymer gel dosimetry. <i>Physics in Medicine and Biology</i> , 2010 , 55, R1-63	3.8	643
112	Polymer gel dosimeters with reduced toxicity: a preliminary investigation of the NMR and optical dose-response using different monomers. <i>Physics in Medicine and Biology</i> , 2006 , 51, 3301-14	3.8	164
111	Cone beam optical computed tomography for gel dosimetry I: scanner characterization. <i>Physics in Medicine and Biology</i> , 2010 , 55, 2819-40	3.8	90
110	NMR Line Shape-Spin-Lattice Relaxation Correlation Study of Portland Cement Hydration. <i>Journal of the American Ceramic Society</i> , 1985 , 68, 10-16	3.8	71
109	True 3D chemical dosimetry (gels, plastics): Development and clinical role. <i>Journal of Physics: Conference Series</i> , 2015 , 573, 012003	0.3	53
108	Imaging of HDR brachytherapy dose distributions using NMR Fricke-gelatin dosimetry. <i>Magnetic Resonance Imaging</i> , 1994 , 12, 901-7	3.3	51
107	Cosolvent-free polymer gel dosimeters with improved dose sensitivity and resolution for x-ray CT dose response. <i>Physics in Medicine and Biology</i> , 2011 , 56, 2091-102	3.8	49
106	Preliminary investigation of the NMR, optical and x-ray CT dose-response of polymer gel dosimeters incorporating cosolvents to improve dose sensitivity. <i>Physics in Medicine and Biology</i> , 2009 , 54, 2779-90	3.8	48
105	Temperature increases associated with polymerization of irradiated PAG dosimeters. <i>Physics in Medicine and Biology</i> , 2002 , 47, 1435-48	3.8	48
104	Cone-beam optical computed tomography for gel dosimetry II: imaging protocols. <i>Physics in Medicine and Biology</i> , 2011 , 56, 1259-79	3.8	47
103	Nuclear magnetic relaxation characterization of irradiated Fricke solution. <i>Medical Physics</i> , 1992 , 19, 87-95	4.4	47
102	Multiple-site fast exchange model for spin-lattice relaxation in the Fricke-gelatin dosimeter. <i>Medical Physics</i> , 1997 , 24, 201-9	4.4	45
101	Surface applicators for high dose rate brachytherapy in AIDS-related Kaposi's sarcoma. <i>International Journal of Radiation Oncology Biology Physics</i> , 1997 , 39, 769-74	4	41
100	Modeling of Free-radical Crosslinking Copolymerization of Acrylamide and N,N'-Methylenebis(acrylamide) for Radiation Dosimetry. <i>Macromolecular Theory and Simulations</i> , 2003 , 12, 647-662	1.5	40
99	Proton NMR spin grouping and exchange in dentin. <i>Biophysical Journal</i> , 1991 , 59, 629-39	2.9	38
98	Composition and relaxation of the proton magnetization of human enamel and its contribution to the tooth NMR image. <i>Magnetic Resonance in Medicine</i> , 1984 , 1, 66-75	4.4	37
97	Modelling of polyacrylamide gel dosimeters with spatially non-uniform radiation dose distributions. <i>Chemical Engineering Science</i> , 2005 , 60, 1277-1293	4.4	31

96	Magnetic resonance imaging for adaptive cobalt tomotherapy: A proposal. <i>Journal of Medical Physics</i> , 2006 , 31, 242-54	0.7	28
95	A comparison of semiempirical models for generating tungsten target x-ray spectra. <i>Medical Physics</i> , 1992 , 19, 579-82	4.4	27
94	Polymer Gel Dosimeters with Increased Solubility: A Preliminary Investigation of the NMR and Optical Dose-Response Using Different Crosslinkers and Co-Solvents. <i>Macromolecular Symposia</i> , 2008 , 261, 157-166	0.8	26
93	Small field dose delivery evaluations using cone beam optical computed tomography-based polymer gel dosimetry. <i>Journal of Medical Physics</i> , 2011 , 36, 3-14	0.7	26
92	Dosimetry in modern radiation therapy: limitations and needs. <i>Journal of Physics: Conference Series</i> , 2006 , 56, 1-13	0.3	22
91	Medical physics staffing for radiation oncology: a decade of experience in Ontario, Canada. <i>Journal of Applied Clinical Medical Physics</i> , 2012 , 13, 3704	2.3	21
90	An NMR relaxometry and gravimetric study of gelatin-free aqueous polyacrylamide dosimeters. <i>Physics in Medicine and Biology</i> , 2006 , 51, 4171-87	3.8	21
89	Leuco-crystal-violet micelle gel dosimeters: II. Recipe optimization and testing. <i>Physics in Medicine and Biology</i> , 2015 , 60, 4685-704	3.8	19
88	Proton T1 study of coverage parameter changes in tissues from tumor-bearing mice. <i>Biophysical Journal</i> , 1979 , 25, 203-8	2.9	19
87	Investigation of an efficient source design for Cobalt-60-based tomotherapy using EGSnrc Monte Carlo simulations. <i>Physics in Medicine and Biology</i> , 2008 , 53, 575-92	3.8	18
86	The role of Cobalt-60 in modern radiation therapy: Dose delivery and image guidance. <i>Journal of Medical Physics</i> , 2009 , 34, 133-6	0.7	18
85	Practical and clinical considerations in Cobalt-60 tomotherapy. <i>Journal of Medical Physics</i> , 2009 , 34, 137-40	1.7	18
84	A simple technique for film dosimetry. <i>Radiotherapy and Oncology</i> , 1992 , 23, 265-7	5.3	17
83	Hydration of NaDNA by neutron quasi-elastic scattering. <i>Biophysical Journal</i> , 1988 , 53, 119-22	2.9	17
82	Leuco-crystal-violet micelle gel dosimeters: I. Influence of recipe components and potential sensitizers. <i>Physics in Medicine and Biology</i> , 2015 , 60, 4665-83	3.8	16
81	Initial experience with a commercial cone beam optical CT unit for polymer gel dosimetry I: Optical dosimetry issues. <i>Journal of Physics: Conference Series</i> , 2006 , 56, 179-182	0.3	16
80	Mathematical Modeling of PAG- and NIPAM-Based Polymer Gel Dosimeters Contaminated by Oxygen and Inhibitor. <i>Macromolecular Theory and Simulations</i> , 2009 , 18, 495-510	1.5	15
79	Surface dose in intracavitary orthovoltage radiotherapy. <i>Medical Physics</i> , 1990 , 17, 635-40	4.4	15

78	Cross relaxation at the lysozyme-water interface: an NMR line-shape-relaxation correlation study. <i>Canadian Journal of Physics</i> , 1984 , 62, 1002-1009	1.1	14
77	Initial experience with a commercial cone beam optical CT unit for polymer gel dosimetry II: Clinical potential. <i>Journal of Physics: Conference Series</i> , 2006 , 56, 183-186	0.3	13
76	Dosimetry of interface region near closed air cavities for Co-60, 6 MV and 15 MV photon beams using Monte Carlo simulations. <i>Journal of Medical Physics</i> , 2010 , 35, 73-80	0.7	12
75	Production, review, and impact of technical quality control guidelines in a national context. <i>Journal of Applied Clinical Medical Physics</i> , 2016 , 17, 3-15	2.3	12
74	Reviewing three dimensional dosimetry: basics and utilization as presented over 17 Years of DosGel and IC3Ddose. <i>Journal of Physics: Conference Series</i> , 2017 , 847, 012001	0.3	11
73	Evaluation of the potential for diacetylenes as reporter molecules in 3D micelle gel dosimetry. <i>Physics in Medicine and Biology</i> , 2013 , 58, 787-805	3.8	11
72	NMR spin grouping and correlation exchange analysis. Application to low hydration NaDNA paracrystals. <i>Biophysical Journal</i> , 1991 , 59, 221-34	2.9	11
71	Radiotherapeutic Management of Non-Small Cell Lung Cancer in the Minimal Resource Setting. <i>Journal of Thoracic Oncology</i> , 2016 , 11, 21-9	8.9	10
70	Factors influencing lung density in experimental models: results of studies using CT densitometry. <i>Physiological Measurement</i> , 1993 , 14, 183-93	2.9	10
69	On the quality assurance and verification of modern radiation therapy treatment. <i>Journal of Medical Physics</i> , 2011 , 36, 189-91	0.7	10
68	Limiting values of backscatter factors for low-energy x-ray beams. <i>Physics in Medicine and Biology</i> , 1996 , 41, 239-53	3.8	9
67	A parametrization of the mass attenuation coefficients for elements with Z=1 to Z=92 in the photon energy range from approximately 1 to 150 keV. <i>Physics in Medicine and Biology</i> , 1991 , 36, 987-999	3.8	9
66	Characterization of normal and malignant mouse tissue by NMR lineshape-relaxation correlations in the rotation frame. <i>Magnetic Resonance in Medicine</i> , 1985 , 2, 73-80	4.4	9
65	Metal artifact suppression in megavoltage computed tomography 2005 , 5745, 637		7
64	Immobilization and catheter guidance for breast brachytherapy. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2012 , 7, 65-72	3.9	6
63	Implementation of an efficient workflow process for gel dosimetry using 3D Slicer. <i>Journal of Physics: Conference Series</i> , 2015 , 573, 012042	0.3	6
62	Cobalt-60 tomotherapy: clinical treatment planning and phantom dose delivery studies. <i>Medical Physics</i> , 2013 , 40, 081710	4.4	6
61	Examination of Jeltrate Plus as a tissue equivalent bolus material. <i>Journal of Applied Clinical Medical Physics</i> , 2002 , 3, 170-5	2.3	6

60	Analysis and evaluation of planned and delivered dose distributions: practical concerns with Band Evaluations. <i>Journal of Physics: Conference Series</i> , 2013 , 444, 012016	0.3	5
59	Mathematical Modeling of Depth-Dose Response of Polymer-Gel Dosimeters. <i>Macromolecular Theory and Simulations</i> , 2011 , 20, 735-751	1.5	5
58	N.m.r. line shape-relaxation correlation analysis of bitumen and oil sands. <i>Fuel</i> , 1985 , 64, 583-590	7.1	5
57	SU-E-T-04: 3D Printed Patient-Specific Surface Mould Applicators for Brachytherapy Treatment of Superficial Lesions. <i>Medical Physics</i> , 2014 , 41, 222-222	4.4	5
56	Streamlined open-source gel dosimetry analysis in 3D slicer. <i>Biomedical Physics and Engineering Express</i> , 2018 , 4,	1.5	4
55	Mathematical Modeling of the Response of Polymer Gel Dosimeters to HDR and LDR Brachytherapy Radiation. <i>Macromolecular Theory and Simulations</i> , 2012 , 21, 36-51	1.5	4
54	Stereotactic body radiation therapy delivery validation. <i>Journal of Physics: Conference Series</i> , 2013 , 444, 012073	0.3	4
53	Quantitative investigations of megavoltage computed tomography 2005 ,		4
52	Examination of Jeltrate Plus as a tissue equivalent bolus material. <i>Journal of Applied Clinical Medical Physics</i> , 2002 , 3, 170	2.3	4
51	Famous medical physicists often get more credit for discoveries due to their fame than less prominent scientists who may have contributed as much or earlier to these developments. <i>Medical Physics</i> , 2017 , 44, 1209-1211	4.4	3
50	Leuco-crystal-violet micelle gel dosimeters: Component effects on dose-rate dependence. <i>Journal of Physics: Conference Series</i> , 2017 , 847, 012041	0.3	3
49	3D Slicer Gel Dosimetry Analysis: Validation of the Calibration Process. <i>IFMBE Proceedings</i> , 2015 , 521-524	4.2	3
48	Aperture superposition dose model versus pencil beam superposition dose model for a finite size Cobalt-60 source for tomotherapy deliveries. <i>Medical Physics</i> , 2012 , 39, 206-13	4.4	3
47	Cross-relaxation bottleneck in water-lysozyme proton magnetization exchange. <i>Biopolymers</i> , 2006 , 83, 11-9	2.2	3
46	Polymer gel dosimeters with reduced toxicity. <i>Journal of Physics: Conference Series</i> , 2006 , 56, 156-159	0.3	3
45	Seed proton NMR spin-grouping. <i>JAOCS, Journal of the American Oil Chemistssociety</i> , 1988 , 65, 106-108	1.8	3
44	PRELIMINARY INVESTIGATION OF RADIATION DOSE TO PATIENTS FROM CARDIOVASCULAR INTERVENTIONAL PROCEDURES IN TANZANIA. <i>Radiation Protection Dosimetry</i> , 2018 , 181, 317-332	0.9	3
43	Characterization of a radiochromic silicone dosimeter. <i>Journal of Physics: Conference Series</i> , 2017 , 847, 012052	0.3	2

42	3D-printed surface mould applicator for high-dose-rate brachytherapy 2015 ,		2
41	Use of a dual-labelled oligonucleotide as a DNA dosemeter for radiological exposure detection. <i>Radiation Protection Dosimetry</i> , 2012 , 148, 20-33	0.9	2
40	A multi-configurational cylindrical phantom based evaluation of patient-specific IMRT QA tools. <i>Journal of Physics: Conference Series</i> , 2013 , 444, 012052	0.3	2
39	A Study of Portland Cement Hydration by Paramagnetic Iron Suppression of Proton Magnetic Resonance. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 1985 , 40, 32-36	1.4	2
38	COMP report: CPQR technical quality control guidelines for radiation treatment centers. <i>Journal of Applied Clinical Medical Physics</i> , 2018 , 19, 44-47	2.3	1
37	High dose rate brachytherapy three-dimensional gel dosimetry using optical computed tomography readout. <i>Journal of Physics: Conference Series</i> , 2019 , 1305, 012051	0.3	1
36	Surface dose accuracy in VMAT head and neck radiation treatment using bolus. <i>Journal of Physics: Conference Series</i> , 2019 , 1305, 012005	0.3	1
35	Fundamentals of 3D dosimetry. <i>Journal of Physics: Conference Series</i> , 2019 , 1305, 012022	0.3	1
34	Best Practice Recommendations for the Retention of Radiotherapy Records. <i>Clinical Oncology</i> , 2017 , 29, e195-e202	2.8	1
33	Clinical management of tumour volume changes in VMAT head & neck radiation treatment. <i>Journal of Physics: Conference Series</i> , 2017 , 847, 012038	0.3	1
32	Investigation of photon shielding property changes in curing high density concrete. <i>Health Physics</i> , 2013 , 105, 318-25	2.3	1
31	Scatter corrections for cone beam optical CT. <i>Journal of Physics: Conference Series</i> , 2009 , 164, 012031	0.3	1
30	The Potential for Image Guided Radiation Therapy with Cobalt-60 Tomotherapy. <i>Lecture Notes in Computer Science</i> , 2003 , 449-456	0.9	1
29	SU-DD-A1-01: Advances in Co-60 Based Tomotherapy Including Megavoltage CT. <i>Medical Physics</i> , 2006 , 33, 1984-1985	4.4	1
28	TH-C-AUD-08: Comparison of Tomotherapy Dose Distributions for 6MV X-Rays and Different Cobalt-60 Source Designs Using Monte Carlo Methods. <i>Medical Physics</i> , 2007 , 34, 2628-2628	4.4	1
27	Poster [Wed Eve]6: Megavoltage Digital Tomosynthesis Using a Radioactive Cobalt-60 Gamma Ray Source for Radiation Therapy Treatment Verification. <i>Medical Physics</i> , 2009 , 36, 4314-4314	4.4	1
26	SU-EE-A1-06: A Comparative Study of Cobalt-60 Based Tomotherapy versus 6 MV Linac-Based Tomotherapy, IMRT, and 3DCRT for the Treatment Planning of Prostate and Head and Neck Cases. <i>Medical Physics</i> , 2010 , 37, 3095-3095	4.4	1
25	MO-B-BRB-00: Three Dimensional Dosimetry. <i>Medical Physics</i> , 2016 , 43, 3695-3695	4.4	1

24	Poster 13: Evaluation of an in-house CCD camera film dosimetry imaging system for small field deliveries. <i>Medical Physics</i> , 2016 , 43, 4938-4938	4.4	1
23	Evaluation of an automated seed loader for seed calibration in prostate brachytherapy. <i>Journal of Applied Clinical Medical Physics</i> , 2006 , 7, 115-125	2.3	1
22	End to end QA in image guided and adaptive radiation therapy. <i>Journal of Physics: Conference Series</i> , 2019 , 1305, 012062	0.3	0
21	Opportunities for improving the performance of LCV micelle gel dosimeters: I. Preliminary investigation. <i>Journal of Physics: Conference Series</i> , 2015 , 573, 012037	0.3	0
20	Poster - Thur Eve - 18: Characterization of a camera and LED lightbox imaging system for radiochromic film dosimetry. <i>Medical Physics</i> , 2012 , 39, 4627	4.4	0
19	Initial Investigation of Factors Influencing Radiation Dose to Patients Undergoing Barium-Based Fluoroscopy Procedures in Tanzania. <i>Radiation Protection Dosimetry</i> , 2017 , 174, 262-274	0.9	
18	Validation of an ultrasound-guided prostate HDR brachytherapy dose delivery. <i>Journal of Physics: Conference Series</i> , 2019 , 1305, 012050	0.3	
17	Development of 3D Slicer based film dosimetry analysis. <i>Journal of Physics: Conference Series</i> , 2017 , 847, 012061	0.3	
16	Quantifying refractive index mismatch effects on cone beam optical CT scanner measurements. <i>Journal of Physics: Conference Series</i> , 2017 , 847, 012007	0.3	
15	Opportunities for improving the performance of LCV micelle gel dosimeters: II. Recipe optimization. <i>Journal of Physics: Conference Series</i> , 2015 , 573, 012038	0.3	
14	A potential modification of the evaluation: mapping dose disagreements using vector fields. <i>Journal of Physics: Conference Series</i> , 2013 , 444, 012085	0.3	
13	Preliminary evaluation of diacetylene-based 3D micelle gel dosimeters. <i>Journal of Physics: Conference Series</i> , 2013 , 444, 012041	0.3	
12	SciMed PM: Delivery 10: Optical CT-based Gel Dosimetry in Image Guided Adaptive Radiation Therapy. <i>Medical Physics</i> , 2009 , 36, 4303-4303	4.4	
11	Poster - Thur Eve - 44: Digital tomosynthesis image quality in a Co-60 treatment beam. <i>Medical Physics</i> , 2012 , 39, 4633	4.4	
10	Intrinsic proton relaxation parameters of hydrated polyglycine from two-dimensional time domain NMR. <i>Biopolymers</i> , 1999 , 50, 630-40	2.2	
9	A visual illustration of the function of field gradients in magnetic resonance imaging. <i>American Journal of Physics</i> , 1988 , 56, 759-761	0.7	
8	Po-Thur Eve General-37: Preliminary Analysis of a Cobalt-60 Beam Under a MIMiC. <i>Medical Physics</i> , 2006 , 33, 2667-2667	4.4	
7	Po-Thur Eve General-14: 3rd Generation Co-60 based Megavoltage Computed Tomography. <i>Medical Physics</i> , 2006 , 33, 2662-2662	4.4	

6 The Investigation of Cobalt-60 Tomotherapy **2017**, 33-58

5 Poster - Wed Eve-34: Design of a Primary Collimator for Cone Beam CT Imaging. *Medical Physics*, **2009**, 36, 4310-4310 4-4

4 WE-E-BRB-05: Characterization of a Novel DNA Dosimeter for Skin Dose Measurements. *Medical Physics*, **2011**, 38, 3817-3817 4-4

3 SU-E-T-78: Evaluation of IMRT QA Methods Using a Configurational Cylindrical Phantom. *Medical Physics*, **2011**, 38, 3503-3503 4-4

2 SU-E-T-558: Photon Fluence Model for Distributed Radiation Sources Using the Convolution Method. *Medical Physics*, **2013**, 40, 334-334 4-4

1 SU-E-T-51: Characterization of a Novel CCD Camera Based Imaging System for Radiochromic Film Dosimetry. *Medical Physics*, **2013**, 40, 214-215 4-4