

# L John Schreiner

## List of Publications by Year in descending order

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120  
papers

2,547  
citations

257101

24  
h-index

197535

49  
g-index

121  
all docs

121  
docs citations

121  
times ranked

1353  
citing authors

#	ARTICLE	IF	CITATIONS
1	Polymer gel dosimetry. <i>Physics in Medicine and Biology</i> , 2010, 55, R1-R63.	1.6	755
2	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, 3301-3314.	1.6	190
3	Cone beam optical computed tomography for gel dosimetry I: scanner characterization. <i>Physics in Medicine and Biology</i> , 2010, 55, 2819-2840.	1.6	100
4	NMR Line Shape-Spin-Lattice Relaxation Correlation Study of Portland Cement Hydration. <i>Journal of the American Ceramic Society</i> , 1985, 68, 10-16.	1.9	84
5	True 3D chemical dosimetry (gels, plastics): Development and clinical role. <i>Journal of Physics: Conference Series</i> , 2015, 573, 012003.	0.3	73
6	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, 2779-2790.	1.6	58
7	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, 2091-2102.	1.6	58
8	Imaging of HDR brachytherapy dose distributions using NMR Fricke-gelatin dosimetry. <i>Magnetic Resonance Imaging</i> , 1994, 12, 901-907.	1.0	54
9	Temperature increases associated with polymerization of irradiated PAG dosimeters. <i>Physics in Medicine and Biology</i> , 2002, 47, 1435-1448.	1.6	54
10	Cone-beam optical computed tomography for gel dosimetry II: imaging protocols. <i>Physics in Medicine and Biology</i> , 2011, 56, 1259-1279.	1.6	53
11	Nuclear magnetic relaxation characterization of irradiated Fricke solution. <i>Medical Physics</i> , 1992, 19, 87-95.	1.6	51
12	Multiple-site fast exchange model for spin-lattice relaxation in the Fricke-gelatin dosimeter. <i>Medical Physics</i> , 1997, 24, 201-209.	1.6	50
13	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.	0.6	47
14	Surface applicators for high dose rate brachytherapy in AIDS-related Kaposi's sarcoma. <i>International Journal of Radiation Oncology Biology Physics</i> , 1997, 39, 769-774.	0.4	46
15	Proton NMR spin grouping and exchange in dentin. <i>Biophysical Journal</i> , 1991, 59, 629-639.	0.2	43
16	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.	1.9	40
17	Modelling of polyacrylamide gel dosimeters with spatially non-uniform radiation dose distributions. <i>Chemical Engineering Science</i> , 2005, 60, 1277-1293.	1.9	36
18	Magnetic resonance imaging for adaptive cobalt tomotherapy: A proposal. <i>Journal of Medical Physics</i> , 2006, 31, 242.	0.1	33

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19	Small field dose delivery evaluations using cone beam optical computed tomography-based polymer gel dosimetry. <i>Journal of Medical Physics</i> , 2011, 36, 3.	0.1	30
20	A comparison of semiempirical models for generating tungsten target x-ray spectra. <i>Medical Physics</i> , 1992, 19, 579-582.	1.6	29
21	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.	0.4	29
22	The role of Cobalt-60 in modern radiation therapy: Dose delivery and image guidance. <i>Journal of Medical Physics</i> , 2009, 34, 133.	0.1	28
23	An NMR relaxometry and gravimetric study of gelatin-free aqueous polyacrylamide dosimeters. <i>Physics in Medicine and Biology</i> , 2006, 51, 4171-4187.	1.6	25
24	Dosimetry in modern radiation therapy: limitations and needs. <i>Journal of Physics: Conference Series</i> , 2006, 56, 1-13.	0.3	24
25	Medical physics staffing for radiation oncology: a decade of experience in Ontario, Canada. <i>Journal of Applied Clinical Medical Physics</i> , 2012, 13, 93-110.	0.8	24
26	Leuco-crystal-violet micelle gel dosimeters: II. Recipe optimization and testing. <i>Physics in Medicine and Biology</i> , 2015, 60, 4685-4704.	1.6	23
27	Leuco-crystal-violet micelle gel dosimeters: I. Influence of recipe components and potential sensitizers. <i>Physics in Medicine and Biology</i> , 2015, 60, 4665-4683.	1.6	21
28	Proton T1 study of coverage parameter changes in tissues from tumor-bearing mice. <i>Biophysical Journal</i> , 1979, 25, 203-208.	0.2	20
29	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, 575-592.	1.6	20
30	Hydration of NaDNA by neutron quasi-elastic scattering. <i>Biophysical Journal</i> , 1988, 53, 119-122.	0.2	18
31	Surface dose in intracavitary orthovoltage radiotherapy. <i>Medical Physics</i> , 1990, 17, 635-640.	1.6	18
32	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.	0.6	18
33	Practical and clinical considerations in Cobalt-60 tomotherapy. <i>Journal of Medical Physics</i> , 2009, 34, 137.	0.1	18
34	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.	0.1	18
35	A simple technique for film dosimetry. <i>Radiotherapy and Oncology</i> , 1992, 23, 265-267.	0.3	17
36	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

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37	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	15
38	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.	1.6	15
39	Radiotherapeutic Management of Non-Small Cell Lung Cancer in the Minimal Resource Setting. <i>Journal of Thoracic Oncology</i> , 2016, 11, 21-29.	0.5	15
40	Cross relaxation at the lysozyme-water interface: an NMR line-shape-relaxation correlation study. <i>Canadian Journal of Physics</i> , 1984, 62, 1002-1009.	0.4	14
41	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.	0.8	14
42	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	14
43	On the quality assurance and verification of modern radiation therapy treatment. <i>Journal of Medical Physics</i> , 2011, 36, 189.	0.1	14
44	NMR spin grouping and correlation exchange analysis. Application to low hydration NaDNA paracrystals. <i>Biophysical Journal</i> , 1991, 59, 221-234.	0.2	12
45	Factors influencing lung density in experimental models: results of studies using CT densitometry. <i>Physiological Measurement</i> , 1993, 14, 183-193.	1.2	10
46	Limiting values of backscatter factors for low-energy x-ray beams. <i>Physics in Medicine and Biology</i> , 1996, 41, 239-253.	1.6	10
47	Examination of Jeltrate Plus as a tissue equivalent bolus material. <i>Journal of Applied Clinical Medical Physics</i> , 2002, 3, 170-175.	0.8	10
48	Cobalt-60 tomotherapy: Clinical treatment planning and phantom dose delivery studies. <i>Medical Physics</i> , 2013, 40, 081710.	1.6	10
49	Characterization of normal and malignant mouse tissue by NMR lineshape-relaxation correlations in the rotating frame. <i>Magnetic Resonance in Medicine</i> , 1985, 2, 73-80.	1.9	9
50	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.	1.6	9
51	Metal artifact suppression in megavoltage computed tomography. , 2005, 5745, 637.		8
52	Immobilization and catheter guidance for breast brachytherapy. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2012, 7, 65-72.	1.7	8
53	Implementation of an efficient workflow process for gel dosimetry using 3D Slicer. <i>Journal of Physics: Conference Series</i> , 2015, 573, 012042.	0.3	8
54	Streamlined open-source gel dosimetry analysis in 3D slicer. <i>Biomedical Physics and Engineering Express</i> , 2018, 4, 045041.	0.6	8

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55	N.m.r. line shape-relaxation correlation analysis of bitumen and oil sands. <i>Fuel</i> , 1985, 64, 583-590.	3.4	7
56	Mathematical Modeling of Depth-Dependent Dose Response of Polymer Gel Dosimeters. <i>Macromolecular Theory and Simulations</i> , 2011, 20, 735-751.	0.6	6
57	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.	0.6	6
58	Analysis and evaluation of planned and delivered dose distributions: practical concerns with $^{137}\text{Cs}$ - and $^{60}\text{Co}$ -Evaluations. <i>Journal of Physics: Conference Series</i> , 2013, 444, 012016.	0.3	6
59	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.	1.6	6
60	Quantitative investigations of megavoltage computed tomography. , 2005, , .		5
61	Stereotactic body radiation therapy delivery validation. <i>Journal of Physics: Conference Series</i> , 2013, 444, 012073.	0.3	5
62	Examination of Jeltrate <sup>®</sup> Plus as a tissue equivalent bolus material. <i>Journal of Applied Clinical Medical Physics</i> , 2002, 3, 170.	0.8	5
63	Seed proton NMR spin-grouping. <i>JAOCS, Journal of the American Oil Chemists' Society</i> , 1988, 65, 106-108.	0.8	4
64	The Potential for Image Guided Radiation Therapy with Cobalt-60 Tomotherapy. <i>Lecture Notes in Computer Science</i> , 2003, , 449-456.	1.0	4
65	Aperture superposition dose model versus pencil beam superposition dose model for a finite size Cobalt-60 source for tomotherapy deliveries. <i>Medical Physics</i> , 2011, 39, 206-213.	1.6	4
66	Leuco-crystal-violet micelle gel dosimeters: Component effects on dose-rate dependence. <i>Journal of Physics: Conference Series</i> , 2017, 847, 012041.	0.3	4
67	<scp>COMP</scp> report: CPQR technical quality control guidelines for radiation treatment centers. <i>Journal of Applied Clinical Medical Physics</i> , 2018, 19, 44-47.	0.8	4
68	PRELIMINARY INVESTIGATION OF RADIATION DOSE TO PATIENTS FROM CARDIOVASCULAR INTERVENTIONAL PROCEDURES IN TANZANIA. <i>Radiation Protection Dosimetry</i> , 2018, 181, 317-332.	0.4	4
69	Polymer gel dosimeters with reduced toxicity. <i>Journal of Physics: Conference Series</i> , 2006, 56, 156-159.	0.3	3
70	Cross-relaxation bottleneck in water-lysozyme proton magnetization exchange. <i>Biopolymers</i> , 2006, 83, 11-19.	1.2	3
71	Scatter corrections for cone beam optical CT. <i>Journal of Physics: Conference Series</i> , 2009, 164, 012031.	0.3	3
72	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	3

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73	3D-printed surface mould applicator for high-dose-rate brachytherapy. Proceedings of SPIE, 2015, , .	0.8	3
74	3D Slicer Gel Dosimetry Analysis: Validation of the Calibration Process. IFMBE Proceedings, 2015, , 521-524.	0.2	3
75	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. Medical Physics, 2017, 44, 1209-1211.	1.6	3
76	A Study of Portland Cement Hydration by Paramagnetic Iron Suppression of Proton Magnetic Resonance. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 1985, 40, 32-36.	0.7	3
77	The post-COVID future of research conferences should be virtual. Physical and Engineering Sciences in Medicine, 2022, 45, 413-417.	1.3	3
78	Use of a dual-labelled oligonucleotide as a DNA dosimeter for radiological exposure detection. Radiation Protection Dosimetry, 2012, 148, 20-33.	0.4	2
79	A multi-configurational cylindrical phantom based evaluation of patient-specific IMRT QA tools. Journal of Physics: Conference Series, 2013, 444, 012052.	0.3	2
80	Best Practice Recommendations for the Retention of Radiotherapy Records. Clinical Oncology, 2017, 29, e195-e202.	0.6	2
81	Characterization of a radiochromic silicone dosimeter. Journal of Physics: Conference Series, 2017, 847, 012052.	0.3	2
82	Poster "Thur Eve" 18: Characterization of a camera and LED lightbox imaging system for radiochromic film dosimetry. Medical Physics, 2012, 39, 4627-4627.	1.6	1
83	Investigation Of Photon Shielding Property Changes in Curing High Density Concrete. Health Physics, 2013, 105, 318-325.	0.3	1
84	Opportunities for improving the performance of LCV micelle gel dosimeters: II. Recipe optimization. Journal of Physics: Conference Series, 2015, 573, 012038.	0.3	1
85	Clinical management of tumour volume changes in VMAT head & neck radiation treatment. Journal of Physics: Conference Series, 2017, 847, 012038.	0.3	1
86	High dose rate brachytherapy three-dimensional gel dosimetry using optical computed tomography readout. Journal of Physics: Conference Series, 2019, 1305, 012051.	0.3	1
87	Surface dose accuracy in VMAT head and neck radiation treatment using bolus. Journal of Physics: Conference Series, 2019, 1305, 012005.	0.3	1
88	Fundamentals of 3D dosimetry. Journal of Physics: Conference Series, 2019, 1305, 012022.	0.3	1
89	End to end QA in image guided and adaptive radiation therapy. Journal of Physics: Conference Series, 2019, 1305, 012062.	0.3	1
90	SU-DD-A1-01: Advances in Co-60 Based Tomotherapy Including Megavoltage CT. Medical Physics, 2006, 33, 1984-1985.	1.6	1

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91	THâ€Câ€AUDâ€08: Comparison of Tomotherapy Dose Distributions for 6MV Xâ€Rays and Different Cobaltâ€60 Source Designs Using Monte Carlo Methods. Medical Physics, 2007, 34, 2628-2628.	1.6	1
92	Poster - Wed Eve-56: Megavoltage Digital Tomosynthesis Using a Radioactive Cobalt-60 Gamma Ray Source for Radiation Therapy Treatment Verification. Medical Physics, 2009, 36, 4314-4314.	1.6	1
93	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. Medical Physics, 2010, 37, 3095-3095.	1.6	1
94	TU-C-BRB-07: Medical Physics Staffing for Radiation Treatment: A Robust Algorithm with Trans-Canada Validation. Medical Physics, 2011, 38, 3754-3754.	1.6	1
95	MO-B-BRB-00: Three Dimensional Dosimetry. Medical Physics, 2016, 43, 3695-3695.	1.6	1
96	Poster - 13: Evaluation of an in-house CCD camera film dosimetry imaging system for small field deliveries. Medical Physics, 2016, 43, 4938-4938.	1.6	1
97	Evaluation of an automated seed loader for seed calibration in prostate brachytherapy. Journal of Applied Clinical Medical Physics, 2006, 7, 115-125.	0.8	1
98	A visual illustration of the function of field gradients in magnetic resonance imaging. American Journal of Physics, 1988, 56, 759-761.	0.3	0
99	Intrinsic proton relaxation parameters of hydrated polyglycine from two-dimensional time domain NMR. , 1999, 50, 630-640.		0
100	Sci-Wed PM: Delivery-10: Optical CT-based Gel Dosimetry in Image Guided Adaptive Radiation Therapy. Medical Physics, 2009, 36, 4303-4303.	1.6	0
101	Poster - Thur Eve - 44: Digital tomosynthesis image quality in a Co-60 treatment beam. Medical Physics, 2012, 39, 4633-4633.	1.6	0
102	A potential modification of the $\hat{\Gamma}^3$ -evaluation: mapping dose disagreements using $\hat{\Gamma}^3$ -vector fields. Journal of Physics: Conference Series, 2013, 444, 012085.	0.3	0
103	Preliminary evaluation of diacetylene-based 3D micelle gel dosimeters. Journal of Physics: Conference Series, 2013, 444, 012041.	0.3	0
104	Assessing and improving cobalt-60 digital tomosynthesis image quality. Proceedings of SPIE, 2014, , .	0.8	0
105	Initial Investigation of Factors Influencing Radiation Dose to Patients Undergoing Barium-Based Fluoroscopy Procedures in Tanzania. Radiation Protection Dosimetry, 2016, 174, 262-274.	0.4	0
106	Development of 3D Slicer based film dosimetry analysis. Journal of Physics: Conference Series, 2017, 847, 012061.	0.3	0
107	Quantifying refractive index mismatch effects on cone beam optical CT scanner measurements. Journal of Physics: Conference Series, 2017, 847, 012007.	0.3	0
108	Validation of an ultrasound-guided prostate HDR brachytherapy dose delivery. Journal of Physics: Conference Series, 2019, 1305, 012050.	0.3	0

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109	Po-Thur Eve General-37: Preliminary Analysis of a Cobalt-60 Beam Under a MIMiC. Medical Physics, 2006, 33, 2667-2667.	1.6	0
110	Po-Thur Eve General-14: 3rd Generation Co-60 based Megavoltage Computed Tomography. Medical Physics, 2006, 33, 2662-2662.	1.6	0
111	Poster - Wed Eve-34: Design of a Primary Collimator for Cone Beam CT Imaging. Medical Physics, 2009, 36, 4310-4310.	1.6	0
112	WE-E-BRB-05: Characterization of a Novel DNA Dosimeter for Skin Dose Measurements. Medical Physics, 2011, 38, 3817-3817.	1.6	0
113	SU-E-T-78: Evaluation of IMRT QA Methods Using a Configurational Cylindrical Phantom. Medical Physics, 2011, 38, 3503-3503.	1.6	0
114	SU-E-I-22: Non-Clinical Applications for Cobalt-60 Cone Beam CT Imaging. Medical Physics, 2011, 38, 3400-3400.	1.6	0
115	SU-E-T-745: Convolution-Superposition Model for Photon Dose Calculations of Finite Size Cobalt-60 Radiation Source. Medical Physics, 2011, 38, 3662-3662.	1.6	0
116	SU-E-T-558: Photon Fluence Model for Distributed Radiation Sources Using the Convolution Method. Medical Physics, 2013, 40, 334-334.	1.6	0
117	SU-E-T-51: Characterization of a Novel CCD Camera Based Imaging System for Radiochromic Film Dosimetry. Medical Physics, 2013, 40, 214-215.	1.6	0
118	Sci-Fri AM: Quality, Safety, and Professional Issues 01: CPQR Technical Quality Control Suite Development including Quality Control Workload Results. Medical Physics, 2016, 43, 4952-4952.	1.6	0
119	Sci-Fri AM: Quality, Safety, and Professional Issues 02: Recent work on TQC Suite and Data from a National survey on Community Uptake. Medical Physics, 2016, 43, 4952-4953.	1.6	0
120	The Investigation of Cobalt-60 Tomotherapy. , 2017, , 33-58.		0