

# Louis Archambault

## List of Publications by Year in descending order

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Version: 2024-02-01

54  
papers

1,702  
citations

257450

24  
h-index

276875

41  
g-index

54  
all docs

54  
docs citations

54  
times ranked

876  
citing authors

#	ARTICLE	IF	CITATIONS
1	On the proper use of structural similarity for the robust evaluation of medical image synthesis models. <i>Medical Physics</i> , 2022, 49, 2462-2474.	3.0	5
2	On the use of polychromatic cameras for high spatial resolution spectral dose measurements. <i>Physics in Medicine and Biology</i> , 2022, , .	3.0	0
3	Accurate dose measurements using Cherenkov emission polarization imaging. <i>Medical Physics</i> , 2022, , .	3.0	1
4	Discriminative Neural Network for Hero Selection in Professional <i>Heroes of the Storm</i> and <i>DOTA 2</i>. <i>IEEE Transactions on Games</i> , 2021, 13, 380-387.	1.4	6
5	Ionizing Radiation Mediates Dose Dependent Effects Affecting the Healing Kinetics of Wounds Created on Acute and Late Irradiated Skin. <i>Surgeries</i> , 2021, 2, 35-57.	0.6	3
6	Recent Advances and Clinical Applications of Plastic Scintillators in the Field of Radiation Therapy. <i>Topics in Applied Physics</i> , 2021, , 425-460.	0.8	3
7	On the use of machine learning methods for mPSD calibration in HDR brachytherapy. <i>Physica Medica</i> , 2021, 91, 73-79.	0.7	2
8	Tomographicâ€based 3D scintillation dosimetry using a threeâ€view plenoptic imaging system. <i>Medical Physics</i> , 2020, 47, 3636-3646.	3.0	10
9	Dosimetric performance of a multipoint plastic scintillator dosimeter as a tool for realâ€time source tracking in high dose rate Ir brachytherapy. <i>Medical Physics</i> , 2020, 47, 4477-4490.	3.0	20
10	Optimization of a multipoint plastic scintillator dosimeter for high dose rate brachytherapy. <i>Medical Physics</i> , 2019, 46, 2412-2421.	3.0	24
11	Simulating imaging-based tomographic systems using optical design software for resolving 3D structures of translucent media. <i>Applied Optics</i> , 2019, 58, 5942.	1.8	5
12	A fast 4D cone beam CT reconstruction method based on the OSC-TV algorithm. <i>Journal of X-Ray Science and Technology</i> , 2018, 26, 189-208.	1.0	2
13	An EPIDâ€based method to determine mechanical deformations in a linear accelerator. <i>Medical Physics</i> , 2018, 45, 5054-5065.	3.0	1
14	Establishing action threshold for change in patient anatomy using <sc>EPID</sc> gamma analysis and <sc>PTV</sc> coverage for head and neck radiotherapy treatment. <i>Medical Physics</i> , 2018, 45, 3534-3545.	3.0	15
15	Experimental investigation on the accuracy of plastic scintillators and of the spectrum discrimination method in small photon fields. <i>Medical Physics</i> , 2017, 44, 654-664.	3.0	16
16	Classification of changes occurring in lung patient during radiotherapy using relative <i> $\hat{I}^3$ </i> analysis and hidden Markov models. <i>Medical Physics</i> , 2017, 44, 5043-5050.	3.0	9
17	Radiotherapy-Induced Cardiac Implantable Electronic Device Dysfunction in Patients With Cancer. <i>American Journal of Cardiology</i> , 2017, 119, 284-289.	1.6	36
18	Technical Note: Outâ€ofâ€field dose measurement at near surface with plastic scintillator detector. <i>Journal of Applied Clinical Medical Physics</i> , 2016, 17, 542-547.	1.9	5

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19	Response to Re: Estimating and reducing dose received by cardiac devices for patients undergoing radiotherapy. Journal of Applied Clinical Medical Physics, 2016, 17, 458-459.	1.9	0
20	Estimating and reducing dose received by cardiac devices for patients undergoing radiotherapy. Journal of Applied Clinical Medical Physics, 2015, 16, 411-422.	1.9	13
21	Dosimetric evaluation of three adaptive strategies for prostate cancer treatment including pelvic lymph nodes irradiation. Medical Physics, 2015, 42, 7011-7021.	3.0	3
22	Novel, full 3D scintillation dosimetry using a static plenoptic camera. Medical Physics, 2014, 41, 082101.	3.0	38
23	Optical artefact characterization and correction in volumetric scintillation dosimetry. Physics in Medicine and Biology, 2014, 59, 23-42.	3.0	40
24	3D tomodosimetry using long scintillating fibers: A feasibility study. Medical Physics, 2013, 40, 101703.	3.0	10
25	On the nature of the light produced within PMMA optical light guides in scintillation fiber-optic dosimetry. Physics in Medicine and Biology, 2013, 58, 2073-2084.	3.0	86
26	Performance assessment of a 2D array of plastic scintillation detectors for IMRT quality assurance. Physics in Medicine and Biology, 2013, 58, 4439-4454.	3.0	15
27	A comparative study of small field total scatter factors and dose profiles using plastic scintillation detectors and other stereotactic dosimeters: The case of the CyberKnife. Medical Physics, 2013, 40, 011719.	3.0	78
28	Characterization of lung tumors motion baseline using cone-beam computed tomography. Medical Physics, 2012, 39, 7062-7070.	3.0	4
29	A mathematical formalism for hyperspectral, multipoint plastic scintillation detectors. Physics in Medicine and Biology, 2012, 57, 7133-7145.	3.0	42
30	Development of a novel multi-point plastic scintillation detector with a single optical transmission line for radiation dose measurement. Physics in Medicine and Biology, 2012, 57, 7147-7159.	3.0	38
31	Comment on "Plastic scintillation dosimetry: comparison of three solutions for the Cerenkov challenge". Physics in Medicine and Biology, 2012, 57, 3661-3665.	3.0	8
32	Validating plastic scintillation detectors for photon dosimetry in the radiologic energy range. Medical Physics, 2012, 39, 5308-5316.	3.0	45
33	High resolution 2D dose measurement device based on a few long scintillating fibers and tomographic	3.0	18
34	Technical Note: Determining regions of interest for CCD camera-based fiber optic luminescence dosimetry by examining signal-to-noise ratio. Medical Physics, 2011, 38, 1374-1377.	3.0	7
35	A new water-equivalent 2D plastic scintillation detectors array for the dosimetry of megavoltage energy photon beams in radiation therapy. Medical Physics, 2011, 38, 6763-6774.	3.0	59
36	Spectral method for the correction of the Cerenkov light effect in plastic scintillation detectors: A comparison study of calibration procedures and validation in Cerenkov light-dominated situations. Medical Physics, 2011, 38, 2140-2150.	3.0	116

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37	Dosimetric performance and array assessment of plastic scintillation detectors for stereotactic radiosurgery quality assurance. <i>Medical Physics</i> , 2011, 39, 429-436.	3.0	60
38	Technical Note: Removing the stem effect when performing $^{192}\text{Ir}$ HDR brachytherapy <i>in vivo</i> dosimetry using plastic scintillation detectors: A relevant and necessary step. <i>Medical Physics</i> , 2011, 38, 2176-2179.	3.0	42
39	Simulation of the precision limits of plastic scintillation detectors using optimal component selection. <i>Medical Physics</i> , 2010, 37, 412-418.	3.0	18
40	Toward a Real-Time In Vivo Dosimetry System Using Plastic Scintillation Detectors. <i>International Journal of Radiation Oncology Biology Physics</i> , 2010, 78, 280-287.	0.8	74
41	Measuring output factors of small fields formed by collimator jaws and multileaf collimator using plastic scintillation detectors. <i>Medical Physics</i> , 2010, 37, 5541-5549.	3.0	51
42	Liquid scintillator for 2D dosimetry for high-energy photon beams. <i>Medical Physics</i> , 2009, 36, 1478-1485.	3.0	39
43	Exploration of the potential of liquid scintillators for real-time 3D dosimetry of intensity modulated proton beams. <i>Medical Physics</i> , 2009, 36, 1736-1743.	3.0	71
44	Characterizing the response of miniature scintillation detectors when irradiated with proton beams. <i>Physics in Medicine and Biology</i> , 2008, 53, 1865-1876.	3.0	55
45	Clinical prototype of a plastic water-equivalent scintillating fiber dosimeter array for QA	3.0	64
46	Transient noise characterization and filtration in CCD cameras exposed to stray radiation from a medical linear accelerator. <i>Medical Physics</i> , 2008, 35, 4342-4351.	3.0	46
47	Water-equivalent dosimeter array for small-field external beam radiotherapy. <i>Medical Physics</i> , 2007, 34, 1583-1592.	3.0	85
48	Octree indexing of DICOM images for voxel number reduction and improvement of Monte Carlo simulation computing efficiency. <i>Medical Physics</i> , 2006, 33, 2819-2831.	3.0	14
49	Absolute calibration of polymer gel dosimeters using scintillating fibers. <i>Journal of Physics: Conference Series</i> , 2006, 56, 242-244.	0.4	3
50	Surface preparation and coupling in plastic scintillator dosimetry. <i>Medical Physics</i> , 2006, 33, 3519-3525.	3.0	26
51	Plastic scintillation dosimetry: Optimal selection of scintillating fibers and scintillators. <i>Medical Physics</i> , 2005, 32, 2271-2278.	3.0	75
52	Measurement accuracy and Cerenkov removal for high performance, high spatial resolution scintillation dosimetry. <i>Medical Physics</i> , 2005, 33, 128-135.	3.0	141
53	The robustness of dose distributions to displacement and migration of $^{125}\text{I}$ permanent seed implants over a wide range of seed number, activity, and designs. <i>International Journal of Radiation Oncology Biology Physics</i> , 2004, 58, 1298-1308.	0.8	44
54	Automatic post-implant needle reconstruction algorithm to characterize and improve implant robustness analyses. <i>Medical Physics</i> , 2003, 30, 2897-2903.	3.0	11