

# Ricky O'Brien

## List of Publications by Year in descending order

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Version: 2024-02-01

42  
papers

884  
citations

586496

16  
h-index

536525

29  
g-index

42  
all docs

42  
docs citations

42  
times ranked

846  
citing authors

#	ARTICLE	IF	CITATIONS
1	Generating patient-matched 3D-printed pedicle screw and laminectomy drill guides from Cone Beam CT images: Studies in ovine and porcine cadavers. <i>Medical Physics</i> , 2022, 49, 4642-4652.	1.6	4
2	MLC tracking for lung SABR is feasible, efficient and delivers high-precision target dose and lower normal tissue dose. <i>Radiotherapy and Oncology</i> , 2021, 155, 131-137.	0.3	18
3	A Review of Cardiac Radioablation (CR) for Arrhythmias: Procedures, Technology, and Future Opportunities. <i>International Journal of Radiation Oncology Biology Physics</i> , 2021, 109, 783-800.	0.4	37
4	Adapting to the motion of multiple independent targets using multileaf collimator tracking for locally advanced prostate cancer: Proof of principle simulation study. <i>Medical Physics</i> , 2021, 48, 114-124.	1.6	3
5	Toward real-time verification for MLC tracking treatments using time-resolved EPID imaging. <i>Medical Physics</i> , 2021, 48, 953-964.	1.6	3
6	Minimizing 4DCBCT imaging dose and scan time with Respiratory Motion Guided 4DCBCT: a pre-clinical investigation. <i>Biomedical Physics and Engineering Express</i> , 2021, 7, 025009.	0.6	1
7	Pre-treatment and real-time image guidance for a fixed-beam radiotherapy system. <i>Physics in Medicine and Biology</i> , 2021, 66, 064003.	1.6	1
8	The adaptation and investigation of cone-beam CT reconstruction algorithms for horizontal rotation fixed-gantry scans of rabbits. <i>Physics in Medicine and Biology</i> , 2021, 66, 105012.	1.6	2
9	First experimental evaluation of multi-target multileaf collimator tracking during volumetric modulated arc therapy for locally advanced prostate cancer. <i>Radiotherapy and Oncology</i> , 2021, 160, 212-220.	0.3	3
10	Simulated multileaf collimator tracking for stereotactic liver radiotherapy guided by kilovoltage intrafraction monitoring: Dosimetric gain and target overdose trends. <i>Radiotherapy and Oncology</i> , 2020, 144, 93-100.	0.3	8
11	The first prospective implementation of markerless lung target tracking in an experimental quality assurance procedure on a standard linear accelerator. <i>Physics in Medicine and Biology</i> , 2020, 65, 025008.	1.6	9
12	First experimental investigation of simultaneously tracking two independently moving targets on an MRI-linac using real-time MRI and MLC tracking. <i>Medical Physics</i> , 2020, 47, 6440-6449.	1.6	19
13	Is multileaf collimator tracking or gating a better intrafraction motion adaptation strategy? An analysis of the TROG 15.01 stereotactic prostate ablative radiotherapy with KIM (SPARK) trial. <i>Radiotherapy and Oncology</i> , 2020, 151, 234-241.	0.3	10
14	Real-Time Image Guided Ablative Prostate Cancer Radiation Therapy: Results From the TROG 15.01 SPARK Trial. <i>International Journal of Radiation Oncology Biology Physics</i> , 2020, 107, 530-538.	0.4	33
15	Reducing 4D CT imaging artifacts at the source: first experimental results from the respiratory adaptive computed tomography (REACT) system. <i>Physics in Medicine and Biology</i> , 2020, 65, 075012.	1.6	4
16	Geometric uncertainty analysis of MLC tracking for lung SABR. <i>Physics in Medicine and Biology</i> , 2020, 65, 235040.	1.6	6
17	A six-degree-of-freedom robotic motion system for quality assurance of real-time image-guided radiotherapy. <i>Physics in Medicine and Biology</i> , 2019, 64, 105021.	1.6	9
18	Both four-dimensional computed tomography and four-dimensional cone beam computed tomography under-predict lung target motion during radiotherapy. <i>Radiotherapy and Oncology</i> , 2019, 135, 65-73.	0.3	46

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19	Technical Note: In silico and experimental evaluation of two leafâ€fittings algorithms for MLC tracking based on exposure error and plan complexity. <i>Medical Physics</i> , 2019, 46, 1814-1820.	1.6	2
20	In Reply to Dahele and Verbakel. <i>International Journal of Radiation Oncology Biology Physics</i> , 2019, 103, 283-284.	0.4	1
21	Development and commissioning of a fullâ€size prototype fixedâ€beam radiotherapy system with horizontal patient rotation. <i>Medical Physics</i> , 2019, 46, 1331-1340.	1.6	7
22	Review of Real-Time 3-Dimensional Image Guided Radiation Therapy on Standard-Equipped Cancer Radiation Therapy Systems: Are We at the Tipping Point for the Era of Real-Time Radiation Therapy?. <i>International Journal of Radiation Oncology Biology Physics</i> , 2018, 102, 922-931.	0.4	45
23	Potential improvements of lung and prostate MLC tracking investigated by treatment simulations. <i>Medical Physics</i> , 2018, 45, 2218-2229.	1.6	10
24	The accuracy and precision of Kilovoltage Intrafraction Monitoring (KIM) six degree-of-freedom prostate motion measurements during patient treatments. <i>Radiotherapy and Oncology</i> , 2018, 126, 236-243.	0.3	17
25	Electromagnetic-Guided MLC Tracking Radiation Therapy for Prostate Cancer Patients: Prospective Clinical Trial Results. <i>International Journal of Radiation Oncology Biology Physics</i> , 2018, 101, 387-395.	0.4	21
26	Impact of audiovisual biofeedback on interfraction respiratory motion reproducibility in liver cancer stereotactic body radiotherapy. <i>Journal of Medical Imaging and Radiation Oncology</i> , 2018, 62, 133-139.	0.9	0
27	The first clinical implementation of real-time image-guided adaptive radiotherapy using a standard linear accelerator. <i>Radiotherapy and Oncology</i> , 2018, 127, 6-11.	0.3	54
28	Investigating multi-leaf collimator tracking in stereotactic arrhythmic radioablation (STAR) treatments for atrial fibrillation. <i>Physics in Medicine and Biology</i> , 2018, 63, 195008.	1.6	16
29	Cone-beam CT reconstruction with gravity-induced motion. <i>Physics in Medicine and Biology</i> , 2018, 63, 205007.	1.6	5
30	An augmented correlation framework for the estimation of tumour translational and rotational motion during external beam radiotherapy treatments using intermittent monoscopic x-ray imaging and an external respiratory signal. <i>Physics in Medicine and Biology</i> , 2018, 63, 205003.	1.6	5
31	Stereotactic prostate adaptive radiotherapy utilising kilovoltage intrafraction monitoring: the TROC 15.01 SPARK trial. <i>BMC Cancer</i> , 2017, 17, 180.	1.1	39
32	The first clinical implementation of a real-time six degree of freedom target tracking system during radiation therapy based on Kilovoltage Intrafraction Monitoring (KIM). <i>Radiotherapy and Oncology</i> , 2017, 123, 37-42.	0.3	39
33	Technical Note: The design and function of a horizontal patient rotation system for the purposes of fixed-beam cancer radiotherapy. <i>Medical Physics</i> , 2017, 44, 2490-2502.	1.6	12
34	MLC tracking for lung SABR reduces planning target volumes and dose to organs at risk. <i>Radiotherapy and Oncology</i> , 2017, 124, 18-24.	0.3	31
35	Functional imaging equivalence and proof of concept for image-guided adaptive radiotherapy with fixed gantry and rotating couch. <i>Advances in Radiation Oncology</i> , 2016, 1, 365-372.	0.6	10
36	The first patient treatment of electromagnetic-guided real time adaptive radiotherapy using MLC tracking for lung SABR. <i>Radiotherapy and Oncology</i> , 2016, 121, 19-25.	0.3	84

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37	The first clinical treatment with kilovoltage intrafraction monitoring (KIM): A real-time image guidance method. <i>Medical Physics</i> , 2015, 42, 354-358.	1.6	71
38	First clinical implementation of audiovisual biofeedback in liver cancer stereotactic body radiation therapy. <i>Journal of Medical Imaging and Radiation Oncology</i> , 2015, 59, 654-656.	0.9	4
39	Technical Note: A novel leaf sequencing optimization algorithm which considers previous underdose and overdose events for MLC tracking radiotherapy. <i>Medical Physics</i> , 2015, 43, 132-136.	1.6	5
40	Audiovisual biofeedback breathing guidance for lung cancer patients receiving radiotherapy: a multi-institutional phase II randomised clinical trial. <i>BMC Cancer</i> , 2015, 15, 526.	1.1	11
41	The first clinical implementation of electromagnetic transponder-guided MLC tracking. <i>Medical Physics</i> , 2014, 41, 020702.	1.6	137
42	Audiovisual biofeedback improves diaphragm motion reproducibility in MRI. <i>Medical Physics</i> , 2012, 39, 6921-6928.	1.6	42