

# Michael Jermyn

## List of Publications by Year in descending order

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Version: 2024-02-01

33  
papers

1,727  
citations

430874

18  
h-index

454955

30  
g-index

33  
all docs

33  
docs citations

33  
times ranked

2300  
citing authors

#	ARTICLE	IF	CITATIONS
1	Remote dose imaging from Cherenkov light using spatially resolved CT calibration in breast radiotherapy. <i>Medical Physics</i> , 2022, 49, 4018-4025.	3.0	5
2	Initial Clinical Experience of Cherenkov Imaging in External Beam Radiation Therapy Identifies Opportunities to Improve Treatment Delivery. <i>International Journal of Radiation Oncology Biology Physics</i> , 2021, 109, 1627-1637.	0.8	25
3	Verification of field match lines in whole breast radiation therapy using Cherenkov imaging. <i>Radiotherapy and Oncology</i> , 2021, 160, 90-96.	0.6	4
4	Experimentally Observed Cherenkov Light Generation in the Eye During Radiation Therapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2020, 106, 422-429.	0.8	31
5	Technical Note: A novel dosimeter improves total skin electron therapy surface dosimetry workflow. <i>Journal of Applied Clinical Medical Physics</i> , 2020, 21, 158-162.	1.9	4
6	Computer animation body surface analysis of total skin electron radiation therapy dose homogeneity via Cherenkov imaging. <i>Journal of Medical Imaging</i> , 2020, 7, 1.	1.5	4
7	Technical Note: Quality assurance and relative dosimetry testing of a 60 Co total body irradiator using optical imaging. <i>Medical Physics</i> , 2019, 46, 3674-3678.	3.0	2
8	Cherenkov imaging for linac beam shape analysis as a remote electronic quality assessment verification tool. <i>Medical Physics</i> , 2019, 46, 811-821.	3.0	21
9	Rapid Multisite Remote Surface Dosimetry for Total Skin Electron Therapy: Scintillator Target Imaging. <i>International Journal of Radiation Oncology Biology Physics</i> , 2019, 103, 767-774.	0.8	17
10	Improvements to an optical scintillator imaging-based tissue dosimetry system. <i>Journal of Biomedical Optics</i> , 2019, 24, 1.	2.6	8
11	A new method using Raman spectroscopy for in vivo targeted brain cancer tissue biopsy. <i>Scientific Reports</i> , 2018, 8, 1792.	3.3	149
12	Mesoscopic characterization of prostate cancer using Raman spectroscopy: potential for diagnostics and therapeutics. <i>BJU International</i> , 2018, 122, 326-336.	2.5	49
13	Combining high wavenumber and fingerprint Raman spectroscopy for the detection of prostate cancer during radical prostatectomy. <i>Biomedical Optics Express</i> , 2018, 9, 4294.	2.9	39
14	Challenges and opportunities in clinical translation of biomedical optical spectroscopy and imaging. <i>Journal of Biomedical Optics</i> , 2018, 23, 1.	2.6	56
15	Algorithm development for intrafraction radiotherapy beam edge verification from Cherenkov imaging. <i>Journal of Medical Imaging</i> , 2018, 5, 1.	1.5	9
16	Highly Accurate Detection of Cancer <i>In Situ</i> with Intraoperative, Label-Free, Multimodal Optical Spectroscopy. <i>Cancer Research</i> , 2017, 77, 3942-3950.	0.9	81
17	Raman spectroscopy in microsurgery: impact of operating microscope illumination sources on data quality and tissue classification. <i>Analyst</i> , 2017, 142, 1185-1191.	3.5	10
18	High wavenumber Raman spectroscopy to improve diagnostic yield of brain needle biopsies. , 2017, , .		0

#	ARTICLE	IF	CITATIONS
19	Raman spectroscopy detects distant invasive brain cancer cells centimeters beyond MRI capability in humans. <i>Biomedical Optics Express</i> , 2016, 7, 5129.	2.9	64
20	Neural networks improve brain cancer detection with Raman spectroscopy in the presence of operating room light artifacts. <i>Journal of Biomedical Optics</i> , 2016, 21, 094002.	2.6	65
21	A review of Raman spectroscopy advances with an emphasis on clinical translation challenges in oncology. <i>Physics in Medicine and Biology</i> , 2016, 61, R370-R400.	3.0	103
22	Neural networks improve brain cancer detection with Raman spectroscopy in the presence of light artifacts. , 2016, , .		4
23	Improved sensitivity to fluorescence for cancer detection in wide-field image-guided neurosurgery. <i>Biomedical Optics Express</i> , 2015, 6, 5063.	2.9	19
24	Macroscopic optical imaging technique for wide-field estimation of fluorescence depth in optically turbid media for application in brain tumor surgical guidance. <i>Journal of Biomedical Optics</i> , 2015, 20, 026002.	2.6	22
25	Macroscopic-imaging technique for subsurface quantification of near-infrared markers during surgery. <i>Journal of Biomedical Optics</i> , 2015, 20, 036014.	2.6	14
26	Intraoperative brain cancer detection with Raman spectroscopy in humans. <i>Science Translational Medicine</i> , 2015, 7, 274ra19.	12.4	457
27	Characterization of a Raman spectroscopy probe system for intraoperative brain tissue classification. <i>Biomedical Optics Express</i> , 2015, 6, 2380.	2.9	123
28	Sub-diffuse interstitial optical tomography to improve the safety of brain needle biopsies: a proof-of-concept study. <i>Optics Letters</i> , 2015, 40, 170.	3.3	13
29	Towards the combined use of Raman spectroscopy and interstitial optical tomography to improve the safety and diagnostic accuracy of brain needle biopsies. , 2015, , .		0
30	Predicting Breast Tumor Response to Neoadjuvant Chemotherapy with Diffuse Optical Spectroscopic Tomography prior to Treatment. <i>Clinical Cancer Research</i> , 2014, 20, 6006-6015.	7.0	63
31	CT contrast predicts pancreatic cancer treatment response to verteporfin-based photodynamic therapy. <i>Physics in Medicine and Biology</i> , 2014, 59, 1911-1921.	3.0	20
32	Cherenkov Video Imaging Allows for the First Visualization of Radiation Therapy in Real Time. <i>International Journal of Radiation Oncology Biology Physics</i> , 2014, 89, 615-622.	0.8	95
33	Fast segmentation and high-quality three-dimensional volume mesh creation from medical images for diffuse optical tomography. <i>Journal of Biomedical Optics</i> , 2013, 18, 086007.	2.6	151