## Michael Jermyn

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Intraoperative brain cancer detection with Raman spectroscopy in humans. Science Translational Medicine, 2015, 7, 274ra19.	12.4	457
2	Fast segmentation and high-quality three-dimensional volume mesh creation from medical images for diffuse optical tomography. Journal of Biomedical Optics, 2013, 18, 086007.	2.6	151
3	A new method using Raman spectroscopy for in vivo targeted brain cancer tissue biopsy. Scientific Reports, 2018, 8, 1792.	3.3	149
4	Characterization of a Raman spectroscopy probe system for intraoperative brain tissue classification. Biomedical Optics Express, 2015, 6, 2380.	2.9	123
5	A review of Raman spectroscopy advances with an emphasis on clinical translation challenges in oncology. Physics in Medicine and Biology, 2016, 61, R370-R400.	3.0	103
6	Cherenkov Video Imaging Allows for the First Visualization of Radiation Therapy in Real Time. International Journal of Radiation Oncology Biology Physics, 2014, 89, 615-622.	0.8	95
7	Highly Accurate Detection of Cancer <i>In Situ</i> with Intraoperative, Label-Free, Multimodal Optical Spectroscopy. Cancer Research, 2017, 77, 3942-3950.	0.9	81
8	Neural networks improve brain cancer detection with Raman spectroscopy in the presence of operating room light artifacts. Journal of Biomedical Optics, 2016, 21, 094002.	2.6	65
9	Raman spectroscopy detects distant invasive brain cancer cells centimeters beyond MRI capability in humans. Biomedical Optics Express, 2016, 7, 5129.	2.9	64
10	Predicting Breast Tumor Response to Neoadjuvant Chemotherapy with Diffuse Optical Spectroscopic Tomography prior to Treatment. Clinical Cancer Research, 2014, 20, 6006-6015.	7.0	63
11	Challenges and opportunities in clinical translation of biomedical optical spectroscopy and imaging. Journal of Biomedical Optics, 2018, 23, 1.	2.6	56
12	Mesoscopic characterization of prostate cancer using Raman spectroscopy: potential for diagnostics and therapeutics. BJU International, 2018, 122, 326-336.	2.5	49
13	Combining high wavenumber and fingerprint Raman spectroscopy for the detection of prostate cancer during radical prostatectomy. Biomedical Optics Express, 2018, 9, 4294.	2.9	39
14	Experimentally Observed Cherenkov Light Generation in the Eye During Radiation Therapy. International Journal of Radiation Oncology Biology Physics, 2020, 106, 422-429.	0.8	31
15	Initial Clinical Experience of Cherenkov Imaging in External Beam Radiation Therapy Identifies Opportunities to Improve Treatment Delivery. International Journal of Radiation Oncology Biology Physics, 2021, 109, 1627-1637.	0.8	25
16	Macroscopic optical imaging technique for wide-field estimation of fluorescence depth in optically turbid media for application in brain tumor surgical guidance. Journal of Biomedical Optics, 2015, 20, 026002.	2.6	22
17	Cherenkov imaging for linac beam shape analysis as a remote electronic quality assessment verification tool. Medical Physics, 2019, 46, 811-821.	3.0	21
18	CT contrast predicts pancreatic cancer treatment response to verteporfin-based photodynamic therapy. Physics in Medicine and Biology, 2014, 59, 1911-1921.	3.0	20

MICHAEL JERMYN

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19	Improved sensitivity to fluorescence for cancer detection in wide-field image-guided neurosurgery. Biomedical Optics Express, 2015, 6, 5063.	2.9	19
20	Rapid Multisite Remote Surface Dosimetry for Total Skin Electron Therapy: Scintillator Target Imaging. International Journal of Radiation Oncology Biology Physics, 2019, 103, 767-774.	0.8	17
21	Macroscopic-imaging technique for subsurface quantification of near-infrared markers during surgery. Journal of Biomedical Optics, 2015, 20, 036014.	2.6	14
22	Sub-diffuse interstitial optical tomography to improve the safety of brain needle biopsies: a proof-of-concept study. Optics Letters, 2015, 40, 170.	3.3	13
23	Raman spectroscopy in microsurgery: impact of operating microscope illumination sources on data quality and tissue classification. Analyst, The, 2017, 142, 1185-1191.	3.5	10
24	Algorithm development for intrafraction radiotherapy beam edge verification from Cherenkov imaging. Journal of Medical Imaging, 2018, 5, 1.	1.5	9
25	Improvements to an optical scintillator imaging-based tissue dosimetry system. Journal of Biomedical Optics, 2019, 24, 1.	2.6	8
26	Remote dose imaging from Cherenkov light using spatially resolved CT calibration in breast radiotherapy. Medical Physics, 2022, 49, 4018-4025.	3.0	5
27	Neural networks improve brain cancer detection with Raman spectroscopy in the presence of light artifacts. , 2016, , .		4
28	Technical Note: A novel dosimeter improves total skin electron therapy surface dosimetry workflow. Journal of Applied Clinical Medical Physics, 2020, 21, 158-162.	1.9	4
29	Verification of field match lines in whole breast radiation therapy using Cherenkov imaging. Radiotherapy and Oncology, 2021, 160, 90-96.	0.6	4
30	Computer animation body surface analysis of total skin electron radiation therapy dose homogeneity via Cherenkov imaging. Journal of Medical Imaging, 2020, 7, 1.	1.5	4
31	Technical Note: Quality assurance and relative dosimetry testing of a 60 Co total body irradiator using optical imaging. Medical Physics, 2019, 46, 3674-3678.	3.0	2
32	Towards the combined use of Raman spectroscopy and interstitial optical tomography to improve the safety and diagnostic accuracy of brain needle biopsies. , 2015, , .		0
33	High wavenumber Raman spectroscopy to improve diagnostic yield of brain needle biopsies. , 2017, , .		0