

Michael Hughes

List of Publications by Year in descending order

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Version: 2024-02-01

26
papers

420
citations

840776

11
h-index

794594

19
g-index

26
all docs

26
docs citations

26
times ranked

480
citing authors

#	ARTICLE	IF	CITATIONS
1	Fiber bundle endocytoscopy. Biomedical Optics Express, 2013, 4, 2781.	2.9	59
2	Speckle noise reduction in optical coherence tomography of paint layers. Applied Optics, 2010, 49, 99.	2.1	52
3	Line-scanning fiber bundle endomicroscopy with a virtual detector slit. Biomedical Optics Express, 2016, 7, 2257.	2.9	34
4	Fiber bundle shifting endomicroscopy for high-resolution imaging. Biomedical Optics Express, 2018, 9, 4649.	2.9	31
5	High speed, line-scanning, fiber bundle fluorescence confocal endomicroscopy for improved mosaicking. Biomedical Optics Express, 2015, 6, 1241.	2.9	30
6	Autonomous scanning for endomicroscopic mosaicing and 3D fusion. , 2017, , .		27
7	Intraoperative Robotic-Assisted Large-Area High-Speed Microscopic Imaging and Intervention. IEEE Transactions on Biomedical Engineering, 2019, 66, 208-216.	4.2	26
8	Force adaptive robotically assisted endomicroscopy for intraoperative tumour identification. International Journal of Computer Assisted Radiology and Surgery, 2015, 10, 825-832.	2.8	20
9	The potential role of optical biopsy in the study and diagnosis of environmental enteric dysfunction. Nature Reviews Gastroenterology and Hepatology, 2017, 14, 727-738.	17.8	20
10	Novel Balloon Surface Scanning Device for Intraoperative Breast Endomicroscopy. Annals of Biomedical Engineering, 2016, 44, 2313-2326.	2.5	18
11	From Macro to Micro: Autonomous Multiscale Image Fusion for Robotic Surgery. IEEE Robotics and Automation Magazine, 2017, 24, 63-72.	2.0	17
12	Flexible Robotic Scanning Device for Intraoperative Endomicroscopy in MIS. IEEE/ASME Transactions on Mechatronics, 2017, 22, 1728-1735.	5.8	13
13	Color reflectance fiber bundle endomicroscopy without back-reflections. Journal of Biomedical Optics, 2014, 19, 030501.	2.6	11
14	Three-dimensional robotic-assisted endomicroscopy with a force adaptive robotic arm. , 2017, , .		11
15	A hand-held flexible mechatronic device for arthroscopy. , 2015, , .		10
16	A miniaturised robotic probe for real-time intraoperative fusion of ultrasound and endomicroscopy. , 2015, , .		9
17	Methylene-blue aided rapid confocal laser endomicroscopy of breast cancer. Journal of Biomedical Optics, 2017, 22, 020501.	2.6	6
18	Development of a large area scanner for intraoperative breast endomicroscopy. , 2014, , .		5

#	ARTICLE	IF	CITATIONS
19	Inline holographic microscopy through fiber imaging bundles. <i>Applied Optics</i> , 2021, 60, A1.	1.8	5
20	Robotics and smart instruments for translating endomicroscopy to in situ, in vivo applications. <i>Computerized Medical Imaging and Graphics</i> , 2012, 36, 589-590.	5.8	4
21	Reduced motion artifacts and speed improvements in enhanced line-scanning fiber bundle endomicroscopy. <i>Journal of Biomedical Optics</i> , 2021, 26, .	2.6	3
22	Automatic motion compensation for structured illumination endomicroscopy using a flexible fiber bundle. <i>Journal of Biomedical Optics</i> , 2020, 25, 1.	2.6	3
23	Endoscopic en-face optical coherence tomography and fluorescence imaging using correlation-based probe tracking. <i>Biomedical Optics Express</i> , 2022, 13, 761.	2.9	3
24	A balloon endomicroscopy scanning device for diagnosing barrett's oesophagus. , 2017, , .		2
25	Direct <i>en-face</i>, speckle-reduced images using angular-compounded Masterâ€“Slave optical coherence tomography. <i>Journal of Optics (United Kingdom)</i> , 2020, 22, 055302.	2.2	1
26	Fiber-shifting endomicroscopy for enhanced resolution imaging. , 2017, , .		0