

Julien Bec

List of Publications by Year in descending order

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Version: 2024-02-01

35
papers

867
citations

430874

18
h-index

477307

29
g-index

35
all docs

35
docs citations

35
times ranked

904
citing authors

#	ARTICLE	IF	CITATIONS
1	A Prototype High-Resolution Small-Animal PET Scanner Dedicated to Mouse Brain Imaging. <i>Journal of Nuclear Medicine</i> , 2016, 57, 1130-1135.	5.0	94
2	Design and evaluation of a device for fast multispectral time-resolved fluorescence spectroscopy and imaging. <i>Review of Scientific Instruments</i> , 2014, 85, 034303.	1.3	77
3	Multimodal in vivo imaging of oral cancer using fluorescence lifetime, photoacoustic and ultrasound techniques. <i>Biomedical Optics Express</i> , 2013, 4, 1724.	2.9	57
4	Autofluorescence lifetime augmented reality as a means for real-time robotic surgery guidance in human patients. <i>Scientific Reports</i> , 2019, 9, 1187.	3.3	51
5	Combined fiber probe for fluorescence lifetime and Raman spectroscopy. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 8291-8301.	3.7	47
6	Real-time augmented reality for delineation of surgical margins during neurosurgery using autofluorescence lifetime contrast. <i>Journal of Biophotonics</i> , 2020, 13, e201900108.	2.3	42
7	Intraoperative Margin Assessment in Oral and Oropharyngeal Cancer Using Label-Free Fluorescence Lifetime Imaging and Machine Learning. <i>IEEE Transactions on Biomedical Engineering</i> , 2021, 68, 857-868.	4.2	42
8	In vivo label-free structural and biochemical imaging of coronary arteries using an integrated ultrasound and multispectral fluorescence lifetime catheter system. <i>Scientific Reports</i> , 2017, 7, 8960.	3.3	41
9	Real-Time Visualization of Tissue Surface Biochemical Features Derived From Fluorescence Lifetime Measurements. <i>IEEE Transactions on Medical Imaging</i> , 2016, 35, 1802-1811.	8.9	39
10	Development and Evaluation of mini-EXPLORER: A Long Axial Field-of-View PET Scanner for Nonhuman Primate Imaging. <i>Journal of Nuclear Medicine</i> , 2018, 59, 993-998.	5.0	38
11	Fluorescence Lifetime Imaging Combined with Conventional Intravascular Ultrasound for Enhanced Assessment of Atherosclerotic Plaques: an Ex Vivo Study in Human Coronary Arteries. <i>Journal of Cardiovascular Translational Research</i> , 2015, 8, 253-263.	2.4	34
12	Multispectral fluorescence lifetime imaging system for intravascular diagnostics with ultrasound guidance: in vivo validation in swine arteries. <i>Journal of Biophotonics</i> , 2014, 7, 281-285.	2.3	32
13	Technique for real-time tissue characterization based on scanning multispectral fluorescence lifetime spectroscopy (ms-TRFS). <i>Biomedical Optics Express</i> , 2015, 6, 987.	2.9	28
14	Rotational multispectral fluorescence lifetime imaging and intravascular ultrasound: bimodal system for intravascular applications. <i>Journal of Biomedical Optics</i> , 2014, 19, 066004.	2.6	27
15	Simultaneous, label-free, multispectral fluorescence lifetime imaging and optical coherence tomography using a double-clad fiber. <i>Optics Letters</i> , 2017, 42, 3753.	3.3	27
16	Mesoscopic fluorescence lifetime imaging: Fundamental principles, clinical applications and future directions. <i>Journal of Biophotonics</i> , 2021, 14, e202000472.	2.3	27
17	Fluorescence lifetime imaging for intraoperative cancer delineation in transoral robotic surgery. <i>Translational Biophotonics</i> , 2019, 1, e201900017.	2.7	26
18	Design, construction, and validation of a rotary multifunctional intravascular diagnostic catheter combining multispectral fluorescence lifetime imaging and intravascular ultrasound. <i>Journal of Biomedical Optics</i> , 2012, 17, 1060121.	2.6	25

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19	Label-Free Visualization and Quantification of Biochemical Markers of Atherosclerotic Plaque Progression Using Intravascular Fluorescence Lifetime. <i>JACC: Cardiovascular Imaging</i> , 2021, 14, 1832-1842.	5.3	18
20	FLImBrush: dynamic visualization of intraoperative free-hand fiber-based fluorescence lifetime imaging. <i>Biomedical Optics Express</i> , 2020, 11, 5166.	2.9	16
21	Multispectral fluorescence lifetime imaging device with a silicon avalanche photodetector. <i>Optics Express</i> , 2021, 29, 20105.	3.4	14
22	Electrocautery effects on fluorescence lifetime measurements: An in vivo study in the oral cavity. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2018, 185, 90-99.	3.8	10
23	Fiber-based platform for synchronous imaging of endogenous and exogenous fluorescence of biological tissue. <i>Optics Letters</i> , 2019, 44, 3350.	3.3	8
24	Investigating Origins of FLIm Contrast in Atherosclerotic Lesions Using Combined FLIm-Raman Spectroscopy. <i>Frontiers in Cardiovascular Medicine</i> , 2020, 7, 122.	2.4	7
25	First in patient assessment of brain tumor infiltrative margins using simultaneous time-resolved measurements of 5-ALA-induced PpIX fluorescence and tissue autofluorescence. <i>Journal of Biomedical Optics</i> , 2022, 27, .	2.6	7
26	Intraoperative delineation of p16+ oropharyngeal carcinoma of unknown primary origin with fluorescence lifetime imaging: Preliminary report. <i>Head and Neck</i> , 2022, 44, 1765-1776.	2.0	7
27	Broadband, freeform focusing micro-optics for a side-viewing imaging catheter. <i>Optics Letters</i> , 2019, 44, 4961.	3.3	6
28	Time-resolved fluorescence spectroscopy for the diagnosis of oral lichen planus. <i>Clinical and Experimental Dermatology</i> , 2018, 43, 546-552.	1.3	5
29	Multiscale, multispectral fluorescence lifetime imaging using a double-clad fiber. <i>Optics Letters</i> , 2019, 44, 2302.	3.3	4
30	Assessment of Murine Colon Inflammation Using Intraluminal Fluorescence Lifetime Imaging. <i>Molecules</i> , 2022, 27, 1317.	3.8	4
31	Engineering the gain and bandwidth in avalanche photodetectors. <i>Optics Express</i> , 2022, 30, 16873.	3.4	3
32	Simultaneous intraluminal imaging of tissue autofluorescence and eGFP-labeled cells in engineered vascular grafts inside a bioreactor. <i>Methods and Applications in Fluorescence</i> , 2019, 7, 044003.	2.3	2
33	Synchronous fluorescence lifetime imaging and optical coherence tomography using a double clad fiber. , 2016, , .		1
34	Dual-Modality Fluorescence Lifetime and Intravascular Ultrasound for Label-Free Intravascular Coronary Imaging. , 2020, , 153-171.		1
35	Open-field mouse brain PET: Design considerations and detector development. , 2015, , .		0