Javier A Jo

List of Publications by Year
in descending order

		218677	243625
82 papers	**2,102** citations	**26** h-index	**44** g-index
83 all docs	**83** docs citations	**83** times ranked	**1855** citing authors

#	Article	IF	Citations
1	Time-domain laser-induced fluorescence spectroscopy apparatus for clinical diagnostics. Review of Scientific Instruments, 2004, 75, 151-162.	1.3	122
2	Optical axial scanning in confocal microscopy using an electrically tunable lens. Biomedical Optics Express, 2014, 5, 645.	2.9	119
3	Fast model-free deconvolution of fluorescence decay for analysis of biological systems. Journal of Biomedical Optics, 2004, 9, 743.	2.6	103
4	Spatio-spectral classification of hyperspectral images for brain cancer detection during surgical operations. PLoS ONE, 2018, 13, e0193721.	2.5	100
5	An Intraoperative Visualization System Using Hyperspectral Imaging to Aid in Brain Tumor Delineation. Sensors, 2018, 18, 430.	3.8	97
6	Detection of rupture-prone atherosclerotic plaques by time-resolved laser-induced fluorescence spectroscopy. Atherosclerosis, 2009, 204, 156-164.	0.8	77
7	Fluorescence Lifetime Spectroscopy of Glioblastoma Multiforme¶. Photochemistry and Photobiology, 2004, 80, 98.	2.5	75
8	A dual-modality optical coherence tomography and fluorescence lifetime imaging microscopy system for simultaneous morphological and biochemical tissue characterization. Biomedical Optics Express, 2010, 1, 186.	2.9	69
9	In vivo detection of macrophages in a rabbit atherosclerotic model by time-resolved laser-induced fluorescence spectroscopy. Atherosclerosis, 2005, 181, 295-303.	0.8	65
10	Intraoperative delineation of primary brain tumors using time-resolved fluorescence spectroscopy. Journal of Biomedical Optics, 2010, 15, 027008.	2.6	65
11	High-speed multispectral fluorescence lifetime imaging implementation for in vivo applications. Optics Letters, 2010, 35, 2558.	3.3	59
12	Simultaneous time- and wavelength-resolved fluorescence spectroscopy for near real-time tissue diagnosis. Optics Letters, 2008, 33, 630.	3.3	58
13	Distinction of brain tissue, low grade and high grade glioma with time-resolved fluorescence spectroscopy. Frontiers in Bioscience - Landmark, 2006, 11, 1255.	3.0	50
14	Laguerre-based method for analysis of time-resolved fluorescence data: application to in-vivo characterization and diagnosis of atherosclerotic lesions. Journal of Biomedical Optics, 2006, 11, 021004.	2.6	50
15	Biochemical characterization of atherosclerotic plaques by endogenous multispectral fluorescence lifetime imaging microscopy. Atherosclerosis, 2012, 220, 394-401.	0.8	49
16	Handheld multispectral fluorescence lifetime imaging system for in vivo applications. Biomedical Optics Express, 2014, 5, 921.	2.9	47
17	Automatic classification of atherosclerotic plaques imaged with intravascular OCT. Biomedical Optics Express, 2016, 7, 4069.	2.9	45
18	Model-based Assessment of Autonomic Control in Obstructive Sleep Apnea Syndrome during Sleep. American Journal of Respiratory and Critical Care Medicine, 2003, 167, 128-136.	5.6	44

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19	Fluorescence lifetime imaging and reflectance confocal microscopy for multiscale imaging of oral precancer. Journal of Biomedical Optics, 2013, 18, 1.	2.6	40
20	Ultrafast method for the analysis of fluorescence lifetime imaging microscopy data based on the Laguerre expansion technique. IEEE Journal of Selected Topics in Quantum Electronics, 2005, 11, 835-845.	2.9	39
21	In Vivo Simultaneous Morphological and Biochemical Optical Imaging of Oral Epithelial Cancer. IEEE Transactions on Biomedical Engineering, 2010, 57, 2596-2599.	4.2	38
22	Automated Analysis of Fluorescence Lifetime Imaging Microscopy (FLIM) Data Based on the Laguerre Deconvolution Method. IEEE Transactions on Biomedical Engineering, 2011, 58, 172-181.	4.2	35
23	Flexible endoscope for continuous in vivo multispectral fluorescence lifetime imaging. Optics Letters, 2013, 38, 1515.	3.3	35
24	Automated classification of optical coherence tomography images for the diagnosis of oral malignancy in the hamster cheek pouch. Journal of Biomedical Optics, 2014, 19, 086022.	2.6	35
25	A Nonlinear Model of Cardiac Autonomic Control in Obstructive Sleep Apnea Syndrome. Annals of Biomedical Engineering, 2007, 35, 1425-1443.	2.5	33
26	AI-Assisted *In Situ* Detection of Human Glioma Infiltration Using a Novel Computational Method for Optical Coherence Tomography. Clinical Cancer Research, 2019, 25, 6329-6338.	7.0	31
27	Clinical label-free biochemical and metabolic fluorescence lifetime endoscopic imaging of precancerous and cancerous oral lesions. Oral Oncology, 2020, 105, 104635.	1.5	28
28	Development of a dual-modal tissue diagnostic system combining time-resolved fluorescence spectroscopy and ultrasonic backscatter microscopy. Review of Scientific Instruments, 2009, 80, 065104.	1.3	25
29	Simultaneous morphological and biochemical endogenous optical imaging of atherosclerosis. European Heart Journal Cardiovascular Imaging, 2015, 16, 910-918.	1.2	23
30	Blind End-Member and Abundance Extraction for Multispectral Fluorescence Lifetime Imaging Microscopy Data. IEEE Journal of Biomedical and Health Informatics, 2014, 18, 606-617.	6.3	22
31	Fully automated deconvolution method for on-line analysis of time-resolved fluorescence spectroscopy data based on an iterative Laguerre expansion technique. Journal of Biomedical Optics, 2009, 14, 024030.	2.6	20
32	Biochemical Imaging of Human Atherosclerotic Plaques with Fluorescence Lifetime Angioscopy. Photochemistry and Photobiology, 2010, 86, 727-731.	2.5	20
33	Automated analysis of multimodal fluorescence lifetime imaging and optical coherence tomography data for the diagnosis of oral cancer in the hamster cheek pouch model. Biomedical Optics Express, 2016, 7, 2000.	2.9	20
34	Lightweight Raman spectroscope using time-correlated photon-counting detection. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 12315-12320.	7.1	19
35	Multispectral autofluorescence dermoscope for skin lesion assessment. Photodiagnosis and Photodynamic Therapy, 2020, 30, 101704.	2.6	19
36	Machine-Learning Assisted Discrimination of Precancerous and Cancerous from Healthy Oral Tissue Based on Multispectral Autofluorescence Lifetime Imaging Endoscopy. Cancers, 2021, 13, 4751.	3.7	19

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37	Application of non-negative matrix factorization to multispectral FLIM data analysis. Biomedical Optics Express, 2012, 3, 2244.	2.9	18
38	Reflectance confocal endomicroscope with optical axial scanning for in vivo imaging of the oral mucosa. Biomedical Optics Express, 2014, 5, 3781.	2.9	18
39	Volumetric structured illumination microscopy enabled by a tunable-focus lens. Optics Letters, 2015, 40, 4943.	3.3	17
40	A novel multimodal optical imaging system for early detection of oral cancer. Oral Surgery, Oral Medicine, Oral Pathology and Oral Radiology, 2016, 121, 290-300.e2.	0.4	17
41	Handheld tunable focus confocal microscope utilizing a double-clad fiber coupler for *in vivo* imaging of oral epithelium. Journal of Biomedical Optics, 2017, 22, 056008.	2.6	17
42	Endogenous Fluorescence Lifetime Imaging (FLIM) Endoscopy For Early Detection Of Oral Cancer And Dysplasia. , 2018, 2018, 3009-3012.		17
43	Extended Blind End-Member and Abundance Extraction for Biomedical Imaging Applications. IEEE Access, 2019, 7, 178539-178552.	4.2	16
44	Deconvolution of fluorescence lifetime imaging microscopy by a library of exponentials. Optics Express, 2015, 23, 23748.	3.4	13
45	Multimodal optical coherence tomography and fluorescence lifetime imaging with interleaved excitation sources for simultaneous endogenous and exogenous fluorescence. Biomedical Optics Express, 2016, 7, 3184.	2.9	13
46	Optically sectioned wide-field fluorescence lifetime imaging microscopy enabled by structured illumination. Biomedical Optics Express, 2017, 8, 1455.	2.9	13
47	A Fully Constrained Optimization Method for Time-Resolved Multispectral Fluorescence Lifetime Imaging Microscopy Data Unmixing. IEEE Transactions on Biomedical Engineering, 2013, 60, 1711-1720.	4.2	12
48	Lensless, ultra-wideband fiber optic rotary joint for biomedical applications. Optics Letters, 2016, 41, 1973.	3.3	12
49	Automated detection of superficial macrophages in atherosclerotic plaques using autofluorescence lifetime imaging. Atherosclerosis, 2019, 285, 120-127.	0.8	12
50	Classification of Hyperspectral In Vivo Brain Tissue Based on Linear Unmixing. Applied Sciences (Switzerland), 2020, 10, 5686.	2.5	12
51	Objective Detection of Oral Carcinoma with Multispectral Fluorescence Lifetime Imaging *In Vivo*. Photochemistry and Photobiology, 2016, 92, 694-701.	2.5	11
52	Estimation of the number of fluorescent end-members for quantitative analysis of multispectral FLIM data. Optics Express, 2014, 22, 12255.	3.4	10
53	Dual-modality optical coherence tomography and frequency-domain fluorescence lifetime imaging microscope system for intravascular imaging. Journal of Biomedical Optics, 2020, 25, .	2.6	10
54	Intravascular optical coherence tomography method for automated detection of macrophage infiltration within atherosclerotic coronary plaques. Atherosclerosis, 2019, 290, 94-102.	0.8	8

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55	Direct frequency domain fluorescence lifetime imaging using field programmable gate arrays for real time processing. Review of Scientific Instruments, 2020, 91, 033708.	1.3	8
56	Blind deconvolution estimation of fluorescence measurements through quadratic programming. Journal of Biomedical Optics, 2015, 20, 075010.	2.6	7
57	Extended output phasor representation of multi-spectral fluorescence lifetime imaging microscopy. Biomedical Optics Express, 2015, 6, 2088.	2.9	6
58	Image-guided intervention in the human bile duct using scanning fiber endoscope system. Proceedings of SPIE, 2012, , .	0.8	5
59	Quadratic blind linear unmixing: A graphical user interface for tissue characterization. Computer Methods and Programs in Biomedicine, 2016, 124, 148-160.	4.7	5
60	Development and Characterization of PLGAâ€Based Multistage Delivery System for Enhanced Payload Delivery to Targeted Vascular Endothelium. Macromolecular Bioscience, 2021, 21, e2000377.	4.1	5
61	Methylene blue-filled biodegradable polymer particles as a contrast agent for optical coherence tomography. Biomedical Optics Express, 2020, 11, 4255.	2.9	4
62	Fluorescence Lifetime Spectroscopy of Glioblastoma Multiforme¶. Photochemistry and Photobiology, 2004, 80, 98-103.	2.5	3
63	Discrimination of cancerous from benign pigmented skin lesions based on multispectral autofluorescence lifetime imaging dermoscopy and machine learning. Journal of Biomedical Optics, 2022, 27, .	2.6	3
64	Multimodal optical imaging for simultaneous in-vivo morphological and biochemical characterization of oral epithelial cancer. , 2010, 2010, 1970-3.		2
65	Enhanced detection of oral dysplasia by structured illumination fluorescence lifetime imaging microscopy. Scientific Reports, 2021, 11, 4984.	3.3	2
66	In Vivo Detection of Oral Epithelial Pre-Cancer and Cancer by Endogenous Fluorescence Lifetime Imaging (FLIM) Endoscopy. , 2016, , .		2
67	Autofluorescence Lifetime Endoscopy for Early Detection of Oral Dysplasia and Cancer. , 2018, , .		2
68	A new method to estimate abundances of multiple components using multi-spectral Fluorescence Lifetime Imaging Microscopy. , 2012, 2012, 1081-4.		1
69	Blind Decomposition of Multi-spectral Fluorescence Lifetime Imaging Microscopy Data: Further Validation. Procedia Technology, 2013, 7, 118-125.	1.1	1
70	Reflectance confocal microscopy of oral epithelial tissue using an electrically tunable lens. Proceedings of SPIE, 2014, 8935, .	0.8	1
71	Blind deconvolution estimation by multi-exponential models and alternated least squares approximations: Free-form and sparse approach. PLoS ONE, 2021, 16, e0248301.	2.5	1
72	Global Blind Deconvolution of Fluorescence Lifetime Imaging Microscopy. , 2018, , .		1

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73	Validation of a time-resolved fluorescence spectroscopy apparatus in a rabbit atherosclerosis model. , 2004, , .		0
74	Particle filter for spectral unmixing. , 2011, , .		0
75	Simultaneous Morphological and Biochemical Imaging of Oral Epithelial Cancer in a Hamster Cheek Pouch Model. , 2011, , .		0
76	Combined FLIM and reflectance confocal microscopy for epithelial imaging. Proceedings of SPIE, 2012, , .	0.8	0
77	Iterative estimation of the number of autofluorescence components in a biological sample. , 2013, , .		0
78	Multimodality Optical Imaging of Atherosclerotic Plaques Combining Optical Coherence Tomography and Fluorescence Lifetime Imaging. , 2009, , .		0
79	Simultaneous Morphological And Biochemical Optical Imaging Of Coronary Atherosclerotic Plaques. , 2012, , .		0
80	Optical detection of oral carcinoma via structured illumination fluorescence lifetime imaging. , 2018, , .		0
81	Blind Deconvolution Estimation by an Exponentials Library. , 2020, , .		0
82	AI-driven discrimination of benign from malignant pigmented skin lesions based on multispectral autofluorescence lifetime dermoscopy imaging. , 2022, , .		0