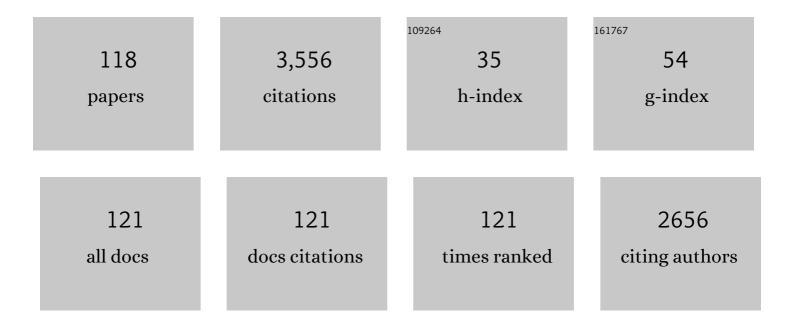
List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Fluorescence Lifetime Techniques in Medical Applications. Annals of Biomedical Engineering, 2012, 40, 304-331.	1.3	195
2	Hybrid intravascular imaging: recent advances, technical considerations, and current applications in the study of plaque pathophysiology. European Heart Journal, 2017, 38, 400-412.	1.0	152
3	Fluorescence lifetime imaging microscopy for brain tumor image-guided surgery. Journal of Biomedical Optics, 2010, 15, 056022.	1.4	127
4	Time-domain laser-induced fluorescence spectroscopy apparatus for clinical diagnostics. Review of Scientific Instruments, 2004, 75, 151-162.	0.6	122
5	Fluorescence lifetime imaging microscopy: in vivo application to diagnosis of oral carcinoma. Optics Letters, 2009, 34, 2081.	1.7	117
6	Discrimination of Human Coronary Artery Atherosclerotic Lipid-Rich Lesions by Time-Resolved Laser-Induced Fluorescence Spectroscopy. Arteriosclerosis, Thrombosis, and Vascular Biology, 2001, 21, 1244-1250.	1.1	103
7	Fast model-free deconvolution of fluorescence decay for analysis of biological systems. Journal of Biomedical Optics, 2004, 9, 743.	1.4	103
8	A novel method for fast and robust estimation of fluorescence decay dynamics using constrained least-squares deconvolution with Laguerre expansion. Physics in Medicine and Biology, 2012, 57, 843-865.	1.6	103
9	Fluorescence lifetime spectroscopy for guided therapy of brain tumors. NeuroImage, 2011, 54, S125-S135.	2.1	81
10	Detection of rupture-prone atherosclerotic plaques by time-resolved laser-induced fluorescence spectroscopy. Atherosclerosis, 2009, 204, 156-164.	0.4	77
11	Design and evaluation of a device for fast multispectral time-resolved fluorescence spectroscopy and imaging. Review of Scientific Instruments, 2014, 85, 034303.	0.6	77
12	Fluorescence Lifetime Spectroscopy of Glioblastoma Multiforme¶. Photochemistry and Photobiology, 2004, 80, 98.	1.3	75
13	Endoscopic Fluorescence Lifetime Imaging for <i>In Vivo</i> Intraoperative Diagnosis of Oral Carcinoma. Microscopy and Microanalysis, 2013, 19, 791-798.	0.2	73
14	In vivo detection of macrophages in a rabbit atherosclerotic model by time-resolved laser-induced fluorescence spectroscopy. Atherosclerosis, 2005, 181, 295-303.	0.4	65
15	Intraoperative delineation of primary brain tumors using time-resolved fluorescence spectroscopy. Journal of Biomedical Optics, 2010, 15, 027008.	1.4	65
16	Time-resolved Fluorescence Spectra of Arterial Fluorescent Compounds: Reconstruction with the Laguerre Expansion Technique. Photochemistry and Photobiology, 2000, 71, 178.	1.3	62
17	Simultaneous time- and wavelength-resolved fluorescence spectroscopy for near real-time tissue diagnosis. Optics Letters, 2008, 33, 630.	1.7	58
18	Multimodal in vivo imaging of oral cancer using fluorescence lifetime, photoacoustic and ultrasound techniques. Biomedical Optics Express, 2013, 4, 1724.	1.5	57

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19	Diagnosis of meningioma by time-resolved fluorescence spectroscopy. Journal of Biomedical Optics, 2005, 10, 064026.	1.4	53
20	Fluorescence lifetime in cardiovascular diagnostics. Journal of Biomedical Optics, 2010, 15, 011106.	1.4	51
21	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
22	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.	1.4	50
23	Combined fiber probe for fluorescence lifetime and Raman spectroscopy. Analytical and Bioanalytical Chemistry, 2015, 407, 8291-8301.	1.9	47
24	Activating Photodynamic Therapy in vitro with Cerenkov Radiation Generated from Yttrium-90. Journal of Environmental Pathology, Toxicology and Oncology, 2016, 35, 185-192.	0.6	44
25	Realâ€ŧime augmented reality for delineation of surgical margins during neurosurgery using autofluorescence lifetime contrast. Journal of Biophotonics, 2020, 13, e201900108.	1.1	42
26	Intraoperative Margin Assessment in Oral and Oropharyngeal Cancer Using Label-Free Fluorescence Lifetime Imaging and Machine Learning. IEEE Transactions on Biomedical Engineering, 2021, 68, 857-868.	2.5	42
27	Dynamic tissue analysis using time- and wavelength-resolved fluorescence spectroscopy for atherosclerosis diagnosis. Optics Express, 2011, 19, 3890.	1.7	41
28	In vivo label-free structural and biochemical imaging of coronary arteries using an integrated ultrasound and multispectral fluorescence lifetime catheter system. Scientific Reports, 2017, 7, 8960.	1.6	41
29	Multimodal characterization of compositional, structural and functional features of human atherosclerotic plaques. Biomedical Optics Express, 2011, 2, 2288.	1.5	40
30	Noninvasive Multimodal Evaluation of Bioengineered Cartilage Constructs Combining Time-Resolved Fluorescence and Ultrasound Imaging. Tissue Engineering - Part C: Methods, 2011, 17, 495-504.	1.1	40
31	Real-time diagnosis and visualization of tumor margins in excised breast specimens using fluorescence lifetime imaging and machine learning. Biomedical Optics Express, 2020, 11, 1216.	1.5	40
32	Time-resolved fluorescence of human aortic wall: Use for improved identification of atherosclerotic lesions. Lasers in Surgery and Medicine, 2000, 27, 241-254.	1.1	39
33	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.	1.9	39
34	Real-Time Visualization of Tissue Surface Biochemical Features Derived From Fluorescence Lifetime Measurements. IEEE Transactions on Medical Imaging, 2016, 35, 1802-1811.	5.4	39
35	Noninvasivein SituEvaluation of Osteogenic Differentiation by Time-Resolved Laser-Induced Fluorescence Spectroscopy. Tissue Engineering, 2004, 10, 411-420.	4.9	38
36	Photobleaching of Arterial Fluorescent Compounds: Characterization of Elastin, Collagen and Cholesterol Timeâ€resolved Spectra during Prolonged Ultraviolet Irradiation. Photochemistry and Photobiology, 1999, 69, 713-721.	1.3	35

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37	Fluorescence Lifetime Imaging Combined with Conventional Intravascular Ultrasound for Enhanced Assessment of Atherosclerotic Plaques: an Ex Vivo Study in Human Coronary Arteries. Journal of Cardiovascular Translational Research, 2015, 8, 253-263.	1.1	34
38	Automated detection of breast cancer in resected specimens with fluorescence lifetime imaging. Physics in Medicine and Biology, 2018, 63, 015003.	1.6	33
39	Multispectral fluorescence lifetime imaging system for intravascular diagnostics with ultrasound guidance:in vivovalidation in swine arteries. Journal of Biophotonics, 2014, 7, 281-285.	1.1	32
40	Characterizing low fluence thresholds for in vitro photodynamic therapy. Biomedical Optics Express, 2015, 6, 770.	1.5	32
41	Fluorescence lifetime imaging for the characterization of the biochemical composition of atherosclerotic plaques. Journal of Biomedical Optics, 2011, 16, 096018.	1.4	31
42	Label-free optical imaging technologies for rapid translation and use during intraoperative surgical and tumor margin assessment. Journal of Biomedical Optics, 2017, 23, 1.	1.4	30
43	Timeâ€resolved laserâ€induced fluorescence spectroscopy as a diagnostic instrument in head and neck carcinoma. Otolaryngology - Head and Neck Surgery, 2010, 142, 838-844.	1.1	28
44	Multispectral scanning time-resolved fluorescence spectroscopy (TRFS) technique for intravascular diagnosis. Biomedical Optics Express, 2012, 3, 1521.	1.5	28
45	Technique for real-time tissue characterization based on scanning multispectral fluorescence lifetime spectroscopy (ms-TRFS). Biomedical Optics Express, 2015, 6, 987.	1.5	28
46	Rotational multispectral fluorescence lifetime imaging and intravascular ultrasound: bimodal system for intravascular applications. Journal of Biomedical Optics, 2014, 19, 066004.	1.4	27
47	Simultaneous, label-free, multispectral fluorescence lifetime imaging and optical coherence tomography using a double-clad fiber. Optics Letters, 2017, 42, 3753.	1.7	27
48	Mesoscopic fluorescence lifetime imaging: Fundamental principles, clinical applications and future directions. Journal of Biophotonics, 2021, 14, e202000472.	1,1	27
49	Fluorescence lifetime imaging for intraoperative cancer delineation in transoral robotic surgery. Translational Biophotonics, 2019, 1, e201900017.	1.4	26
50	Intraluminal fluorescence spectroscopy catheter with ultrasound guidance. Journal of Biomedical Optics, 2009, 14, 030505.	1.4	25
51	Development of a dual-modal tissue diagnostic system combining time-resolved fluorescence spectroscopy and ultrasonic backscatter microscopy. Review of Scientific Instruments, 2009, 80, 065104.	0.6	25
52	Time-Resolved Fluorescence Spectroscopy as a Diagnostic Technique of Oral Carcinoma. JAMA Otolaryngology, 2010, 136, 126.	1.5	25
53	Design, construction, and validation of a rotary multifunctional intravascular diagnostic catheter combining multispectral fluorescence lifetime imaging and intravascular ultrasound. Journal of Biomedical Optics, 2012, 17, 1060121.	1.4	25
54	A fluorescence lifetime imaging classification method to investigate the collagen to lipid ratio in fibrous caps of atherosclerotic plaque. Lasers in Surgery and Medicine, 2012, 44, 564-571.	1,1	25

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55	Intravascular imaging for characterization of coronary atherosclerosis. Current Opinion in Biomedical Engineering, 2017, 3, 1-12.	1.8	25
56	Fluorescence Lifetime Spectroscopy and Imaging in Neurosurgery. IEEE Journal of Selected Topics in Quantum Electronics, 2012, 18, 1465-1477.	1.9	22
57	Biophotonics: the big picture. Journal of Biomedical Optics, 2017, 23, 1.	1.4	22
58	Nondestructive assessment of collagen hydrogel cross-linking using time-resolved autofluorescence imaging. Journal of Biomedical Optics, 2018, 23, 1.	1.4	22
59	Fiberâ€based fluorescence lifetime imaging of recellularization processes on vascular tissue constructs. Journal of Biophotonics, 2018, 11, e201700391.	1.1	21
60	Detection of Pentosidine Cross-Links in Cell-Secreted Decellularized Matrices Using Time Resolved Fluorescence Spectroscopy. ACS Biomaterials Science and Engineering, 2017, 3, 1944-1954.	2.6	20
61	Detection of glycosaminoglycan loss in articular cartilage by fluorescence lifetime imaging. Journal of Biomedical Optics, 2018, 23, 1.	1.4	20
62	Comparing Raman and fluorescence lifetime spectroscopy from human atherosclerotic lesions using a bimodal probe. Journal of Biophotonics, 2016, 9, 958-966.	1.1	18
63	Label-Free Visualization and Quantification of Biochemical Markers of Atherosclerotic Plaque Progression Using Intravascular Fluorescence Lifetime. JACC: Cardiovascular Imaging, 2021, 14, 1832-1842.	2.3	18
64	Rapid fluorescence lifetime estimation with modified phasor approach and Laguerre deconvolution: a comparative study. Methods and Applications in Fluorescence, 2017, 5, 035003.	1.1	17
65	FLImBrush: dynamic visualization of intraoperative free-hand fiber-based fluorescence lifetime imaging. Biomedical Optics Express, 2020, 11, 5166.	1.5	16
66	Twoâ€photon excited fluorescence lifetime measurements through a doubleâ€clad photonic crystal fiber for tissue microâ€endoscopy. Journal of Biophotonics, 2012, 5, 14-19.	1.1	15
67	The effect of radiation dose on the onset and progression of radiation-induced brain necrosis in the rat model. International Journal of Radiation Biology, 2017, 93, 676-682.	1.0	14
68	Physical, Biomechanical, and Optical Characterization of Collagen and Elastin Blend Hydrogels. Annals of Biomedical Engineering, 2020, 48, 2924-2935.	1.3	14
69	FLIm-Guided Raman Imaging to Study Cross-Linking and Calcification of Bovine Pericardium. Analytical Chemistry, 2020, 92, 10659-10667.	3.2	14
70	Multispectral fluorescence lifetime imaging device with a silicon avalanche photodetector. Optics Express, 2021, 29, 20105.	1.7	14
71	Method for accurate registration of tissue autofluorescence imaging data with corresponding histology: a means for enhanced tumor margin assessment. Journal of Biomedical Optics, 2018, 23, 1.	1.4	14
72	<i>In vivo</i> validation of a bimodal technique combining time-resolved fluorescence spectroscopy and ultrasonic backscatter microscopy for diagnosis of oral carcinoma. Journal of Biomedical Optics, 2012, 17, 116003.	1.4	13

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73	Fluorescence Lifetime Imaging and Intravascular Ultrasound: Co-Registration Study Using Ex Vivo Human Coronaries. IEEE Transactions on Medical Imaging, 2015, 34, 156-166.	5.4	13
74	Label-free assessment of carotid artery biochemical composition using fiber-based fluorescence lifetime imaging. Biomedical Optics Express, 2018, 9, 4064.	1.5	12
75	Label-Free Assessment of Collagenase Digestion on Bovine Pericardium Properties by Fluorescence Lifetime Imaging. Annals of Biomedical Engineering, 2018, 46, 1870-1881.	1.3	12
76	Nonâ€destructive detection of matrix stabilization correlates with enhanced mechanical properties of selfâ€assembled articular cartilage. Journal of Tissue Engineering and Regenerative Medicine, 2019, 13, 637-648.	1.3	11
77	A fluorescence lifetime spectroscopy study of matrix metalloproteinasesâ€2 and â€9 in human atherosclerotic plaque. Journal of Biophotonics, 2011, 4, 650-658.	1.1	10
78	Electrocautery effects on fluorescence lifetime measurements: An in vivo study in the oral cavity. Journal of Photochemistry and Photobiology B: Biology, 2018, 185, 90-99.	1.7	10
79	Fluorescence lifetime imaging microscopy for the characterization of atherosclerotic plaques. , 2009, 7161, 71612G.		9
80	Raman ChemLighter: Fiber optic Raman probe imaging in combination with augmented chemical reality. Journal of Biophotonics, 2019, 12, e201800447.	1.1	9
81	Bovine pericardial extracellular matrix niche modulates human aortic endothelial cell phenotype and function. Scientific Reports, 2019, 9, 16688.	1.6	9
82	Fiber-based platform for synchronous imaging of endogenous and exogenous fluorescence of biological tissue. Optics Letters, 2019, 44, 3350.	1.7	8
83	Label-free fluorescence lifetime spectroscopy detects radiation-induced necrotic changes in live brain in real-time. Biomedical Optics Express, 2018, 9, 3559.	1.5	7
84	Investigating Origins of FLIm Contrast in Atherosclerotic Lesions Using Combined FLIm-Raman Spectroscopy. Frontiers in Cardiovascular Medicine, 2020, 7, 122.	1.1	7
85	First in patient assessment of brain tumor infiltrative margins using simultaneous time-resolved measurements of 5-ALA-induced PpIX fluorescence and tissue autofluorescence. Journal of Biomedical Optics, 2022, 27, .	1.4	7
86	Intraoperative delineation of p16+ oropharyngeal carcinoma of unknown primary origin with fluorescence lifetime imaging: Preliminary report. Head and Neck, 2022, 44, 1765-1776.	0.9	7
87	Time-resolved fluorescence spectroscopy and ultrasound backscatter microscopy for nondestructive evaluation of vascular grafts. Journal of Biomedical Optics, 2014, 19, 080503.	1.4	6
88	Computational analysis of the effectiveness of blood flushing with saline injection from an intravascular diagnostic catheter. International Journal for Numerical Methods in Biomedical Engineering, 2014, 30, 1278-1293.	1.0	6
89	FLIm and Raman Spectroscopy for Investigating Biochemical Changes of Bovine Pericardium upon Genipin Cross-Linking. Molecules, 2020, 25, 3857.	1.7	6
90	Intraoperative Mapping of Parathyroid Glands Using Fluorescence Lifetime Imaging. Journal of Surgical Research, 2021, 265, 42-48.	0.8	6

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91	Time-resolved Laser-induced Fluorescence Spectroscopy For Staging Atherosclerotic Lesions. , 2003, , .		6
92	Broadband, freeform focusing micro-optics for a side-viewing imaging catheter. Optics Letters, 2019, 44, 4961.	1.7	6
93	Photobleaching of Arterial Fluorescent Compounds: Characterization of Elastin, Collagen and Cholesterol Time-resolved Spectra during Prolonged Ultraviolet Irradiation. Photochemistry and Photobiology, 1999, 69, 713.	1.3	6
94	Multimodal Scanning Microscope Combining Optical Coherence Tomography, Raman Spectroscopy and Fluorescence Lifetime Microscopy for Mesoscale Label-Free Imaging of Tissue. Analytical Chemistry, 2021, 93, 11479-11487.	3.2	5
95	Time-resolved Fluorescence Spectra of Arterial Fluorescent Compounds: Reconstruction with the Laguerre Expansion Technique. Photochemistry and Photobiology, 2007, 71, 178-187.	1.3	4
96	Fluorescence lifetime spectroscopy for breast cancer margins assessment. Proceedings of SPIE, 2015, , .	0.8	4
97	Multimodal Label-Free Imaging for Detecting Maturation of Engineered Osteogenic Grafts. ACS Biomaterials Science and Engineering, 2019, 5, 1956-1966.	2.6	4
98	Multiscale, multispectral fluorescence lifetime imaging using a double-clad fiber. Optics Letters, 2019, 44, 2302.	1.7	4
99	Fluorescence Lifetime Spectroscopy and Imaging Techniques in Medical Applications. Progress in Optical Science and Photonics, 2016, , 1-46.	0.3	4
100	Assessment of Murine Colon Inflammation Using Intraluminal Fluorescence Lifetime Imaging. Molecules, 2022, 27, 1317.	1.7	4
101	Fluorescence Lifetime Spectroscopy of Glioblastoma Multiforme [¶] . Photochemistry and Photobiology, 2004, 80, 98-103.	1.3	3
102	Endoscopic fluorescence lifetime imaging microscopy (FLIM) images of aortic plaque: an automated classification method. , 2010, , .		3
103	In vivo Optical Imaging / Intravital Microscopy. Journal of Biophotonics, 2017, 10, 760-761.	1.1	3
104	Engineering the gain and bandwidth in avalanche photodetectors. Optics Express, 2022, 30, 16873.	1.7	3
105	Multi-Cantilever-Driven Rotational Micrograting for MOEMS Spectrometer. , 2007, , .		2
106	Simultaneous intraluminal imaging of tissue autofluorescence and eGFP-labeled cells in engineered vascular grafts inside a bioreactor. Methods and Applications in Fluorescence, 2019, 7, 044003.	1.1	2
107	Wafer-level packaging of three-dimensional MOEMS device with lens diaphragm. , 2007, , .		1
108	Multilayered MOEMS Tunable Spectrometer for Fluorescence Lifetime Detection. IEEE Photonics Technology Letters, 2010, 22, 486-488.	1.3	1

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109	In-vivo validation of fluorescence lifetime imaging (FLIm) of coronary arteries in swine. Proceedings of SPIE, 2015, , .	0.8	1
110	Fluorescence Lifetime Imaging Microscopy (FLIM) for Intraoperative Tumor Delineation: A Study in Patients. , 2011, , .		1
111	In vivo high speed multispectral fluorescence lifetime imaging (FLIm) of swine coronary arteries. , 2015, , .		1
112	Fluorescence Lifetime Imaging for Intra-Operative Guidance during Thyroid Surgery. , 2017, , .		1
113	Dual-Modality Fluorescence Lifetime and Intravascular Ultrasound for Label-Free Intravascular Coronary Imaging. , 2020, , 153-171.		1
114	Electropermeabilization of Mammalian Cells Visualized with Fluorescent Semiconductor Nanocrystals (Quantum Dots). Materials Research Society Symposia Proceedings, 2005, 873, 1.	0.1	0
115	Overview of fluorescence lifetime imaging and metrology. , 2014, , 3-22.		0
116	Online multispectral fluorescence lifetime values estimation and overlay onto tissue white-light video frames. , 2016, , .		0
117	Utility of Quantum Dots for Labeling and Tracking Leukemic Cell Lines, Human Bone Marrow and CD 34+ Umbilical Cord Blood Blood, 2005, 106, 1729-1729.	0.6	0
118	Technique for Real-Time Fluorescence Lifetime Overlay on Tissue White-Light Images. , 2015, , .		0