Qiyin Fang

List of Publications by Year in descending order

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Version: 2024-02-01

		257450	265206
141	2,124	24	42
papers	citations	h-index	g-index

144	144	144	1970
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Efficacy and specificity of inhibitors of BCL-2 family protein interactions assessed by affinity measurements in live cells. Science Advances, 2022, 8, eabm7375.	10.3	9
2	Highly Multiplexed Confocal Fluorescence Lifetime Microscope Designed for Screening Applications. IEEE Journal of Selected Topics in Quantum Electronics, 2021, 27, 1-9.	2.9	13
3	Skin erythema and pigmentation: a review of optical assessment techniques. Photodiagnosis and Photodynamic Therapy, 2021, 33, 102127.	2.6	20
4	In-situ monitoring and detection of spatter agglomeration and delamination during laser-based powder bed fusion of Invar 36. Optics and Laser Technology, 2021, 136, 106741.	4.6	39
5	Hyperspectral imaging assessment for radiotherapy induced skin-erythema: Pilot study. Photodiagnosis and Photodynamic Therapy, 2021, 33, 102195.	2.6	8
6	A real-time endoscope tip motion tracker. , 2021, , .		0
7	Skin erythema assessment techniques. Clinics in Dermatology, 2021, 39, 591-604.	1.6	9
8	Medical Physics and Imagingâ€“A Timely Perspective. Frontiers in Physics, 2021, 9, .	2.1	5
9	Editorial Introduction to JSTQE Special Issue on Biophotonics. IEEE Journal of Selected Topics in Quantum Electronics, 2021, 27, 1-4.	2.9	0
10	Re-engaging in Aging and Mobility Research in the COVID-19 Era: Early Lessons from Pivoting a Large-Scale, Interdisciplinary Study amidst a Pandemic. Canadian Journal on Aging, 2021, 40, 669-675.	1.1	3
11	Dual-Modality Imaging Microfluidic Cytometer for Onsite Detection of Phytoplankton. Photonics, 2021, 8, 435.	2.0	1
12	Enhanced red emission of glycothermally synthesized Ce:YAG nanophosphors via Mn2+ addition. Materials Chemistry and Physics, 2021, , 125497.	4.0	3
13	Effects of Drilling Technology on Mini-Implant Primary Stability: A Comparison of the Mechanical Drilling and Femtosecond Laser Ablation. Frontiers in Physics, 2021, 9, .	2.1	0
14	Optical Biopsy of the Upper GI Tract Using Fluorescence Lifetime and Spectra. Frontiers in Physiology, 2020, 11, 339.	2.8	6
15	A Frequency-domain optofluidic dissolved oxygen sensor with total internal reflection design for in situ monitoring. IEEE Journal of Selected Topics in Quantum Electronics, 2020, , 1-1.	2.9	3
16	Reviewâ€"Point-of-Care Urinalysis with Emerging Sensing and Imaging Technologies. Journal of the Electrochemical Society, 2020, 167, 037518.	2.9	18
17	Spectral assessment of radiation therapy-induced skin erythema. , 2020, , .		4
18	Luminescence lifetime imaging using a cellphone camera with an electronic rolling shutter. Optics Letters, 2020, 45, 81.	3.3	10

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19	Multiplexed confocal microscope with a refraction window scanner and a single-photon avalanche photodiode array detector. Optics Letters, 2020, 45, 69.	3.3	3
20	A multiplexed confocal FLIM microscope with 4-taps time-gated imager. , 2020, , .		0
21	Optical model of light propagation in total internal reflection fluorescence sensors. Applied Optics, 2020, 59, 10651.	1.8	0
22	Optofluidic Dissolved Oxygen Sensing With Sensitivity Enhancement Through Multiple Reflections. IEEE Sensors Journal, 2019, 19, 10452-10460.	4.7	13
23	Influence of environmental conditions in bovine bone ablation by ultrafast laser. Journal of Biophotonics, 2019, 12, e201800293.	2.3	11
24	Demonstrating a Technology-Mediated Intervention to Support Medication Adherence in Community-Dwelling Older Adults in Primary Care: A Feasibility Study. Gerontology and Geriatric Medicine, 2019, 5, 233372141984517.	1.5	4
25	Calibration of Spectral Imaging Devices With Oxygenation-Controlled Phantoms: Introducing a Simple Gel-Based Hemoglobin Model. Frontiers in Physics, 2019, 7, .	2.1	2
26	The Use of Motion Analysis as Particle Biomarkers in Lensless Optofluidic Projection Imaging for Point of Care Urine Analysis. Scientific Reports, 2019, 9, 17255.	3.3	7
27	Acousto-optic tunable filter-based hyperspectral imaging system characterization. , 2019, , .		6
28	Cross-talk reduction in a multiplexed synchroscan streak camera with simultaneous calibration. Optics Express, 2019, 27, 22602.	3.4	5
29	Exploring the Impact of a Mobile Health Solution for Postpartum Pelvic Floor Muscle Training: Pilot Randomized Controlled Feasibility Study. JMIR MHealth and UHealth, 2019, 7, e12587.	3.7	19
30	Radiation therapy induced-erythema: comparison of spectroscopic diffuse reflectance measurements and visual assessment. , 2019, , .		1
31	Investigating Bcl-2 family protein-protein interactions using a high-speed multiplexing confocal FLIM microscope. , 2019, , .		1
32	Experiential learning of data acquisition and sensor networks with a cloud computing platform. , 2019, , .		0
33	Detection of trichomonal vaginalis through lensless optofluidic microscopy. , 2019, , .		0
34	Timeâ€resolved fluorescence (TRF) and diffuse reflectance spectroscopy (DRS) for margin analysis in breast cancer. Lasers in Surgery and Medicine, 2018, 50, 236-245.	2.1	13
35	Polydopamineâ€“polyethylene glycolâ€“albumin antifouling coatings on multiple substrates. Journal of Materials Chemistry B, 2018, 6, 940-949.	5.8	52
36	High Throughput AOTF Hyperspectral Imager for Randomly Polarized Light. Photonics, 2018, 5, 3.	2.0	21

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37	Hyperspectral Imaging and Classification for Grading Skin Erythema. Frontiers in Physics, 2018, 6, .	2.1	14
38	Hyperspectral imaging: comparison of acousto-optic and liquid crystal tunable filters. , 2018, , .		12
39	(Invited) A Frequency Domain Optofluidics Dissolved Oxygen Sensor. ECS Meeting Abstracts, 2018, , .	0.0	0
40	Bovine cortical bone ablation by femtosecond laser (Conference Presentation). , 2018, , .		3
41	Rapid prototyping of all-solution-processed multi-lengthscale electrodes using polymer-induced thin film wrinkling. Scientific Reports, 2017, 7, 42543.	3.3	25
42	Hyperspectral image processing for detection and grading of skin erythema. Proceedings of SPIE, 2017, , .	0.8	4
43	Dual-modality optical biopsy of glioblastomas multiforme with diffuse reflectance and fluorescence: ex vivo retrieval of optical properties. Journal of Biomedical Optics, 2017, 22, 027002.	2.6	18
44	Optofluidic Device Based Microflow Cytometers for Particle/Cell Detection: A Review. Micromachines, 2016, 7, 70.	2.9	28
45	Characterization of SPAD Array for Multifocal High-Content Screening Applications. Photonics, 2016, 3, 56.	2.0	9
46	Distortion correction and cross-talk compensation algorithm for use with an imaging spectrometer based spatially resolved diffuse reflectance system. Review of Scientific Instruments, 2016, 87, 123112.	1.3	0
47	Integrated Time-Resolved Fluorescence and Diffuse Reflectance Spectroscopy Instrument for Intraoperative Detection of Brain Tumor Margin. IEEE Journal of Selected Topics in Quantum Electronics, 2016, 22, 49-57.	2.9	18
48	(Invited) A Frequency Domain Optofluidics Dissolved Oxygen Sensor with Enhanced Sensitivity for Water Monitoring. ECS Meeting Abstracts, 2016, , .	0.0	1
49	High-speed multifocal array scanning using refractive window tilting. Biomedical Optics Express, 2015, 6, 3737.	2.9	15
50	Observation of ultraslow stress release in silicon nitride films on CaF2. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2015, 33, 041515.	2.1	4
51	Experimental recovery of intrinsic fluorescence and fluorophore concentration in the presence of hemoglobin: spectral effect of scattering and absorption on fluorescence. Journal of Biomedical Optics, 2015, 20, 127003.	2.6	9
52	Compact, non-invasive frequency domain lifetime differentiation of collagens and elastin. Sensors and Actuators B: Chemical, 2015, 219, 283-293.	7.8	11
53	5-aminolevulinic acid induced protoporphyrin IX as a fluorescence marker for quantitative image analysis of high-grade dysplasia in Barrettâ€™s esophagus cellular models. Journal of Biomedical Optics, 2015, 20, 036010.	2.6	5
54	5-aminolevulinic acid for quantitative seek-and-treat of high-grade dysplasia in Barrettâ€™s esophagus cellular models. Journal of Biomedical Optics, 2015, 20, 028002.	2.6	4

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55	Counting of Escherichia coli by a microflow cytometer based on a photonicâ€“microfluidic integrated device. Electrophoresis, 2015, 36, 298-304.	2.4	15
56	Time-Resolved Fluorescence in Photodynamic Therapy. Photonics, 2014, 1, 530-564.	2.0	22
57	Measurements of extrinsic fluorescence in Intralipid and polystyrene microspheres. Biomedical Optics Express, 2014, 5, 2726.	2.9	12
58	Development of a Low-Cost Hemin-Based Dissolved Oxygen Sensor With Anti-Biofouling Coating for Water Monitoring. IEEE Sensors Journal, 2014, 14, 3400-3407.	4.7	37
59	Instrumentation Design of a High-Speed Fluorescence Lifetime Imaging Microscope Tailored to High-Throughput Screening for Drug Discovery. ECS Meeting Abstracts, 2014, , .	0.0	0
60	Peg Surface Modification to Control Biofouling in Microfluidic High Content Screening Devices. ECS Meeting Abstracts, 2014, , .	0.0	0
61	Applications of Optoelectronics Sensor Technology in Environmental and Personal Health Monitoring. ECS Meeting Abstracts, 2014, , .	0.0	0
62	In-Line Monitoring of Bacteria in Drinking Water By Infrared Spectroscopy and Micro-Flow Cytometry. ECS Meeting Abstracts, 2014, , .	0.0	0
63	Single Photon Avalanche Diode for a Time-Gated Raman Spectrometer. ECS Meeting Abstracts, 2014, , .	0.0	0
64	Development of a Miniaturized Dissolved Oxygen Sensor with Anti-Biofouling Coating for Water Monitoring. ECS Meeting Abstracts, 2014, , .	0.0	0
65	Fiber-optic probe design and optical property recovery algorithm for optical biopsy of brain tissue. Journal of Biomedical Optics, 2013, 18, 107004.	2.6	16
66	Ultrafast laser ablation and machining large-size structures on porcine bone. Journal of Biomedical Optics, 2013, 18, 070504.	2.6	8
67	Hyperspectral fluorescence lifetime imaging for optical biopsy. Journal of Biomedical Optics, 2013, 18, 096001.	2.6	26
68	New model of subconjunctival tumor development in rabbits. Journal of Biomedical Optics, 2013, 18, 070501.	2.6	1
69	Porcine cortical bone ablation by ultrashort pulsed laser irradiation. Journal of Biomedical Optics, 2012, 17, 028001.	2.6	20
70	Design of a flat field concave-grating-based micro-Raman spectrometer for environmental applications. Applied Optics, 2012, 51, 6855.	1.8	28
71	Streak camera crosstalk reduction using a multiple delay optical fiber bundle. Optics Letters, 2012, 37, 250.	3.3	12
72	Monitoring Photosensitizer Uptake Using Two Photon Fluorescence Lifetime Imaging Microscopy. Theranostics, 2012, 2, 817-826.	10.0	20

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73	Development of a Miniaturized Dissolved Oxygen Sensor for Water Monitoring. ECS Meeting Abstracts, 2012, , .	0.0	0
74	A Novel Optical Property Recovery Algorithm for Use in the Optical Biopsy of Brain Tissue. , 2012, , .		1
75	A Novel Microfluidic Cell Culture Device for High Content Screening Applications. ECS Meeting Abstracts, 2012, , .	0.0	0
76	CMOS Active-Pixel Sensor With In-Situ Memory for Ultrahigh-Speed Imaging. IEEE Sensors Journal, 2011, 11, 1375-1379.	4.7	21
77	A Novel, High-Dynamic-Range, High-Speed, and High-Sensitivity CMOS Imager Using Time-Domain Single-Photon Counting and Avalanche Photodiodes. IEEE Sensors Journal, 2011, 11, 1078-1083.	4.7	25
78	Effects of incomplete decay in fluorescence lifetime estimation. Biomedical Optics Express, 2011, 2, 2517.	2.9	42
79	Development of a catadioptric endoscope objective with forward and side views. Journal of Biomedical Optics, 2011, 16, 066015.	2.6	20
80	High-Speed, Single-Photon Avalanche-Photodiode Imager for Biomedical Applications. IEEE Sensors Journal, 2011, 11, 2401-2412.	4.7	82
81	Time-Resolved Fluorescence Spectra of Upper GI Tract: An Ex-Vivo Study. ECS Meeting Abstracts, 2010, , .	0.0	0
82	Wide Field Catadioptric System Design for Endoscopic Auto-Fluorescence Imaging. ECS Meeting Abstracts, 2010, , .	0.0	0
83	A Novel CMOS Image Sensor Using Time-Domain Single-Photon Counting. ECS Meeting Abstracts, 2010, , .	0.0	0
84	Intraoperative delineation of primary brain tumors using time-resolved fluorescence spectroscopy. Journal of Biomedical Optics, 2010, 15, 027008.	2.6	65
85	Multilayered MOEMS Tunable Spectrometer for Fluorescence Lifetime Detection. IEEE Photonics Technology Letters, 2010, 22, 486-488.	2.5	1
86	A dual view catadioptric endoscope for fluorescence endoscopy. , 2010, , .		0
87	Using Fluorescence Lifetime Imaging Microscopy to Monitor Photofrin Uptake, Re-distribution, and Intracellular Microenvironment. , 2010, , .		0
88	Using Fluorescence Lifetime Imaging Microscopy to Monitor Photofrin Uptake, Redistribution, and Intracellular Microenvironment. ECS Meeting Abstracts, 2010, , .	0.0	0
89	Poster â€" Thur Eve â€" 09: Effects of Small Sample Size on Diffuse Reflectance Spectroscopy for the Identification of Brain Tumours. Medical Physics, 2010, 37, 3888-3888.	3.0	0
90	Integrated CMOS Sensors for Fluorescence Spectroscopy and Imaging. , 2009, , .		3

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91	Performance of a Diaphragmed Microlens for a Packaged Microspectrometer. Sensors, 2009, 9, 859-868.	3.8	1
92	CMOS photodetector systems for low-level light applications. Journal of Materials Science: Materials in Electronics, 2009, 20, 87-93.	2.2	18
93	High-throughput acousto-optic-tunable-filter-based time-resolved fluorescence spectrometer for optical biopsy. Optics Letters, 2009, 34, 1132.	3.3	24
94	CMOS Image Sensors for High Speed Applications. Sensors, 2009, 9, 430-444.	3.8	154
95	Detection of rupture-prone atherosclerotic plaques by time-resolved laser-induced fluorescence spectroscopy. Atherosclerosis, 2009, 204, 156-164.	0.8	77
96	Fully Integrated Single Photon Avalanche Diode Detector in Standard CMOS 0.18- mum Technology. IEEE Transactions on Electron Devices, 2008, 55, 760-767.	3.0	140
97	Toward a Miniaturized Wireless Fluorescence-Based Diagnostic Imaging System. IEEE Journal of Selected Topics in Quantum Electronics, 2008, 14, 226-234.	2.9	46
98	Characterization of Fluorescence Lifetime of Photofrin and Delta-Aminolevulinic Acid Induced Protoporphyrin IX in Living Cells Using Single- and Two-Photon Excitation. IEEE Journal of Selected Topics in Quantum Electronics, 2008, 14, 158-166.	2.9	32
99	Single-shot acquisition of time-resolved fluorescence spectra using a multiple delay optical fiber bundle. Optics Letters, 2008, 33, 791.	3.3	10
100	CMOS imaging for biomedical applications. IEEE Potentials, 2008, 27, 31-36.	0.3	15
101	Towards a Lab-in-a-Pill for Wireless GI Endoscopy. ECS Meeting Abstracts, 2008, , .	0.0	0
102	CMOS Camera-on-Chip Image Sensor for Biomedical Applications. ECS Meeting Abstracts, 2008, , .	0.0	0
103	Breakdown Mechanism in Silicon Avalanche Photodiodes. ECS Meeting Abstracts, 2008, , .	0.0	0
104	Characterization of time-domain fluorescence properties of typical photosensitizers for photodynamic therapy. , 2007, , .		0
105	Wafer-level packaging of three-dimensional MOEMS device with lens diaphragm. , 2007, , .		1
106	New Methods for Time-resolved Fluorescence Spectroscopy Data Analysis Based on the Laguerre Expansion Technique. Methods of Information in Medicine, 2007, 46, 206-211.	1.2	5
107	CMOS-Based Active Pixel for Low-Light-Level Detection: Analysis and Measurements. IEEE Transactions on Electron Devices, 2007, 54, 3229-3237.	3.0	32
108	New methods for time-resolved fluorescence spectroscopy data analysis based on the Laguerre expansion technique--applications in tissue diagnosis. Methods of Information in Medicine, 2007, 46, 206-11.	1.2	3

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109	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
110	Diagnosis of Vulnerable Atherosclerotic Plaques by Time-Resolved Fluorescence Spectroscopy and Ultrasound Imaging. , 2006, 2006, 2663-6.		4
111	Detection of high-risk atherosclerotic lesions by time-resolved fluorescence spectroscopy based on the Laguerre deconvolution technique. , 2006, , .		0
112	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
113	Diagnosis of Vulnerable Atherosclerotic Plaques by Time-Resolved Fluorescence Spectroscopy and Ultrasound Imaging. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2006, , .	0.5	0
114	Multiphoton, confocal, and lifetime microscopy for molecular imaging in cartilage. , 2005, , .		1
115	Picosecond fluorescence lifetime imaging microscope for imaging of living glioma cells. , 2005, 5699, 33.		0
116	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
117	Applications of time-resolved fluorescence spectroscopy to atherosclerotic cardiovascular disease and brain tumors diagnosis. , 2005, , .		1
118	Application of the Laguerre Deconvolution Method for Time-Resolved Fluorescence Spectroscopy to the Characterization of Atherosclerotic Plaques. , 2005, 2005, 6559-62.		2
119	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
120	Time-domain laser-induced fluorescence spectroscopy apparatus for clinical diagnostics. Review of Scientific Instruments, 2004, 75, 151-162.	1.3	122
121	Fast model-free deconvolution of fluorescence decay for analysis of biological systems. Journal of Biomedical Optics, 2004, 9, 743.	2.6	103
122	Novel ultra-fast deconvolution method for fluorescence lifetime imaging microscopy based on the Laguerre expansion technique. , 2004, 2004, 1271-4.		7
123	Novel methods of time-resolved fluorescence data analysis for in-vivo tissue characterization: application to atherosclerosis. , 2004, 2004, 1372-5.		1
124	Effects of fiber-optic probe design and probe-to-target distance on diffuse reflectance measurements of turbid media: an experimental and computational study at 337 nm. Applied Optics, 2004, 43, 2846.	2.1	57
125	Modeling of Skin Tissue Ablation by Nanosecond Pulses From Ultraviolet to Near-Infrared and Comparison With Experimental Results. IEEE Journal of Quantum Electronics, 2004, 40, 69-77.	1.9	19
126	Laguerre nonparametric deconvolution technique of time-resolved fluorescence data: application to the prediction of concentrations in a mixture of biochemical components. , 2004, 5326, 8.		4

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127	Validation of a time-resolved fluorescence spectroscopy apparatus in a rabbit atherosclerosis model. , 2004, , .		0
128	Compact time-resolved laser-induced fluorescence spectroscopic system for clinical investigations of diseased tissues. , 2003, 4958, 60.		0
129	Performance evaluation of fiber optic probes for tissue lifetime fluorescence spectroscopy. , 2003, 4958, 43.		10
130	Lifetime fluorescence apparatus for clinical investigations of tissues. , 2003, 5141, 40.		0
131	In Vivo Study of Intradermal Focusing for Tattoo Removal. Lasers in Medical Science, 2002, 17, 154-164.	2.1	12
132	Mechanism study of porcine skin ablation by nanosecond laser pulses at 1064, 532, 266, and 213 nm. IEEE Journal of Quantum Electronics, 2001, 37, 322-328.	1.9	17
133	Tattoo removal in micropigs with low-energy pulses from a Q-switched Nd:YAG laser at 1064 nm. , 2001, 4244, 55.		0
134	Ablation of skin tissue by nanosecond laser pulses at 1064, 532, 266, and 213 nm. , 2000, 3914, 110.		2
135	Multipage storage in a LiNbO_3:Fe crystal sheet using the photorefractive light-climbing effect. Applied Optics, 1996, 35, 6744.	2.1	1
136	The inhomogeneity of two-wave coupling in photorefractive crystals in 90ï¿½ geometry. Applied Physics B: Lasers and Optics, 1996, 63, 35-38.	2.2	0
137	<title>One-way aberration-free image communication through a phase-disturbing medium using photorefractive four-wave mixing</title>. , 1995, , .		0
138	<title>Study of resistance against photorefractive light-induced scattering in LiNbO<formula><inf><roman>3</roman></inf></formula>:Fe,Mg crystals</title>. , 1995, 2529, 14.		32
139	Quantitative understanding of skin tissue ablation from UV to NIR with a new plasma model. , 0, , .		0
140	Nonparametric analysis of time-resolved fluorescence data based on the Laguerre expansion technique. , 0, , .		1
141	A novel dual-path high-throughput acousto-optic tunable filter imaging spectropolarimeter. Journal of Spectral Imaging, 0, , .	0.0	0