

Qiyin Fang

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8515602/publications.pdf>

Version: 2024-02-01

141
papers

2,124
citations

257101

24
h-index

264894

42
g-index

144
all docs

144
docs citations

144
times ranked

1970
citing authors

#	ARTICLE	IF	CITATIONS
1	Efficacy and specificity of inhibitors of BCL-2 family protein interactions assessed by affinity measurements in live cells. <i>Science Advances</i> , 2022, 8, eabm7375.	4.7	9
2	Highly Multiplexed Confocal Fluorescence Lifetime Microscope Designed for Screening Applications. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2021, 27, 1-9.	1.9	13
3	Skin erythema and pigmentation: a review of optical assessment techniques. <i>Photodiagnosis and Photodynamic Therapy</i> , 2021, 33, 102127.	1.3	20
4	In-situ monitoring and detection of spatter agglomeration and delamination during laser-based powder bed fusion of Invar 36. <i>Optics and Laser Technology</i> , 2021, 136, 106741.	2.2	39
5	Hyperspectral imaging assessment for radiotherapy induced skin-erythema: Pilot study. <i>Photodiagnosis and Photodynamic Therapy</i> , 2021, 33, 102195.	1.3	8
6	A real-time endoscope tip motion tracker. , 2021, , .		0
7	Skin erythema assessment techniques. <i>Clinics in Dermatology</i> , 2021, 39, 591-604.	0.8	9
8	Medical Physics and Imagingâ€”A Timely Perspective. <i>Frontiers in Physics</i> , 2021, 9, .	1.0	5
9	Editorial Introduction to JSTQE Special Issue on Biophotonics. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2021, 27, 1-4.	1.9	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. <i>Canadian Journal on Aging</i> , 2021, 40, 669-675.	0.6	3
11	Dual-Modality Imaging Microfluidic Cytometer for Onsite Detection of Phytoplankton. <i>Photonics</i> , 2021, 8, 435.	0.9	1
12	Enhanced red emission of glycothermally synthesized Ce:YAG nanophosphors via Mn ²⁺ addition. <i>Materials Chemistry and Physics</i> , 2021, , 125497.	2.0	3
13	Effects of Drilling Technology on Mini-Implant Primary Stability: A Comparison of the Mechanical Drilling and Femtosecond Laser Ablation. <i>Frontiers in Physics</i> , 2021, 9, .	1.0	0
14	Optical Biopsy of the Upper GI Tract Using Fluorescence Lifetime and Spectra. <i>Frontiers in Physiology</i> , 2020, 11, 339.	1.3	6
15	A Frequency-domain optofluidic dissolved oxygen sensor with total internal reflection design for in situ monitoring. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2020, , 1-1.	1.9	3
16	Reviewâ€”Point-of-Care Urinalysis with Emerging Sensing and Imaging Technologies. <i>Journal of the Electrochemical Society</i> , 2020, 167, 037518.	1.3	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. <i>Optics Letters</i> , 2020, 45, 81.	1.7	10

#	ARTICLE	IF	CITATIONS
19	Multiplexed confocal microscope with a refraction window scanner and a single-photon avalanche photodiode array detector. <i>Optics Letters</i> , 2020, 45, 69.	1.7	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. <i>Applied Optics</i> , 2020, 59, 10651.	0.9	0
22	Optofluidic Dissolved Oxygen Sensing With Sensitivity Enhancement Through Multiple Reflections. <i>IEEE Sensors Journal</i> , 2019, 19, 10452-10460.	2.4	13
23	Influence of environmental conditions in bovine bone ablation by ultrafast laser. <i>Journal of Biophotonics</i> , 2019, 12, e201800293.	1.1	11
24	Demonstrating a Technology-Mediated Intervention to Support Medication Adherence in Community-Dwelling Older Adults in Primary Care: A Feasibility Study. <i>Gerontology and Geriatric Medicine</i> , 2019, 5, 233372141984517.	0.8	4
25	Calibration of Spectral Imaging Devices With Oxygenation-Controlled Phantoms: Introducing a Simple Gel-Based Hemoglobin Model. <i>Frontiers in Physics</i> , 2019, 7, .	1.0	2
26	The Use of Motion Analysis as Particle Biomarkers in Lensless Optofluidic Projection Imaging for Point of Care Urine Analysis. <i>Scientific Reports</i> , 2019, 9, 17255.	1.6	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. <i>Optics Express</i> , 2019, 27, 22602.	1.7	5
29	Exploring the Impact of a Mobile Health Solution for Postpartum Pelvic Floor Muscle Training: Pilot Randomized Controlled Feasibility Study. <i>JMIR MHealth and UHealth</i> , 2019, 7, e12587.	1.8	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	Time-resolved fluorescence (TRF) and diffuse reflectance spectroscopy (DRS) for margin analysis in breast cancer. <i>Lasers in Surgery and Medicine</i> , 2018, 50, 236-245.	1.1	13
35	Polydopamine-polyethylene glycol-albumin antifouling coatings on multiple substrates. <i>Journal of Materials Chemistry B</i> , 2018, 6, 940-949.	2.9	52
36	High Throughput AOTF Hyperspectral Imager for Randomly Polarized Light. <i>Photonics</i> , 2018, 5, 3.	0.9	21

#	ARTICLE	IF	CITATIONS
37	Hyperspectral Imaging and Classification for Grading Skin Erythema. <i>Frontiers in Physics</i> , 2018, 6, .	1.0	14
38	Hyperspectral imaging: comparison of acousto-optic and liquid crystal tunable filters. , 2018, , .		12
39	(Invited) A Frequency Domain Optofluidics Dissolved Oxygen Sensor. <i>ECS Meeting Abstracts</i> , 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. <i>Scientific Reports</i> , 2017, 7, 42543.	1.6	25
42	Hyperspectral image processing for detection and grading of skin erythema. <i>Proceedings of SPIE</i> , 2017, , .	0.8	4
43	Dual-modality optical biopsy of glioblastomas multiforme with diffuse reflectance and fluorescence: <i>in vivo</i> retrieval of optical properties. <i>Journal of Biomedical Optics</i> , 2017, 22, 027002.	1.4	18
44	Optofluidic Device Based Microflow Cytometers for Particle/Cell Detection: A Review. <i>Micromachines</i> , 2016, 7, 70.	1.4	28
45	Characterization of SPAD Array for Multifocal High-Content Screening Applications. <i>Photonics</i> , 2016, 3, 56.	0.9	9
46	Distortion correction and cross-talk compensation algorithm for use with an imaging spectrometer based spatially resolved diffuse reflectance system. <i>Review of Scientific Instruments</i> , 2016, 87, 123112.	0.6	0
47	Integrated Time-Resolved Fluorescence and Diffuse Reflectance Spectroscopy Instrument for Intraoperative Detection of Brain Tumor Margin. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2016, 22, 49-57.	1.9	18
48	(Invited) A Frequency Domain Optofluidics Dissolved Oxygen Sensor with Enhanced Sensitivity for Water Monitoring. <i>ECS Meeting Abstracts</i> , 2016, , .	0.0	1
49	High-speed multifocal array scanning using refractive window tilting. <i>Biomedical Optics Express</i> , 2015, 6, 3737.	1.5	15
50	Observation of ultraslow stress release in silicon nitride films on CaF ₂ . <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2015, 33, 041515.	0.9	4
51	Experimental recovery of intrinsic fluorescence and fluorophore concentration in the presence of hemoglobin: spectral effect of scattering and absorption on fluorescence. <i>Journal of Biomedical Optics</i> , 2015, 20, 127003.	1.4	9
52	Compact, non-invasive frequency domain lifetime differentiation of collagens and elastin. <i>Sensors and Actuators B: Chemical</i> , 2015, 219, 283-293.	4.0	11
53	5-aminolevulinic acid induced protoporphyrin IX as a fluorescence marker for quantitative image analysis of high-grade dysplasia in Barrett's esophagus cellular models. <i>Journal of Biomedical Optics</i> , 2015, 20, 036010.	1.4	5
54	5-aminolevulinic acid for quantitative seek-and-treat of high-grade dysplasia in Barrett's esophagus cellular models. <i>Journal of Biomedical Optics</i> , 2015, 20, 028002.	1.4	4

#	ARTICLE	IF	CITATIONS
55	Counting of <i>Escherichia coli</i> by a microflow cytometer based on a photonic microfluidic integrated device. <i>Electrophoresis</i> , 2015, 36, 298-304.	1.3	15
56	Time-Resolved Fluorescence in Photodynamic Therapy. <i>Photonics</i> , 2014, 1, 530-564.	0.9	22
57	Measurements of extrinsic fluorescence in Intralipid and polystyrene microspheres. <i>Biomedical Optics Express</i> , 2014, 5, 2726.	1.5	12
58	Development of a Low-Cost Hemin-Based Dissolved Oxygen Sensor With Anti-Biofouling Coating for Water Monitoring. <i>IEEE Sensors Journal</i> , 2014, 14, 3400-3407.	2.4	37
59	Instrumentation Design of a High-Speed Fluorescence Lifetime Imaging Microscope Tailored to High-Throughput Screening for Drug Discovery. <i>ECS Meeting Abstracts</i> , 2014, , .	0.0	0
60	Peg Surface Modification to Control Biofouling in Microfluidic High Content Screening Devices. <i>ECS Meeting Abstracts</i> , 2014, , .	0.0	0
61	Applications of Optoelectronics Sensor Technology in Environmental and Personal Health Monitoring. <i>ECS Meeting Abstracts</i> , 2014, , .	0.0	0
62	In-Line Monitoring of Bacteria in Drinking Water By Infrared Spectroscopy and Micro-Flow Cytometry. <i>ECS Meeting Abstracts</i> , 2014, , .	0.0	0
63	Single Photon Avalanche Diode for a Time-Gated Raman Spectrometer. <i>ECS Meeting Abstracts</i> , 2014, , .	0.0	0
64	Development of a Miniaturized Dissolved Oxygen Sensor with Anti-Biofouling Coating for Water Monitoring. <i>ECS Meeting Abstracts</i> , 2014, , .	0.0	0
65	Fiber-optic probe design and optical property recovery algorithm for optical biopsy of brain tissue. <i>Journal of Biomedical Optics</i> , 2013, 18, 107004.	1.4	16
66	Ultrafast laser ablation and machining large-size structures on porcine bone. <i>Journal of Biomedical Optics</i> , 2013, 18, 070504.	1.4	8
67	Hyperspectral fluorescence lifetime imaging for optical biopsy. <i>Journal of Biomedical Optics</i> , 2013, 18, 096001.	1.4	26
68	New model of subconjunctival tumor development in rabbits. <i>Journal of Biomedical Optics</i> , 2013, 18, 070501.	1.4	1
69	Porcine cortical bone ablation by ultrashort pulsed laser irradiation. <i>Journal of Biomedical Optics</i> , 2012, 17, 028001.	1.4	20
70	Design of a flat field concave-grating-based micro-Raman spectrometer for environmental applications. <i>Applied Optics</i> , 2012, 51, 6855.	0.9	28
71	Streak camera crosstalk reduction using a multiple delay optical fiber bundle. <i>Optics Letters</i> , 2012, 37, 250.	1.7	12
72	Monitoring Photosensitizer Uptake Using Two Photon Fluorescence Lifetime Imaging Microscopy. <i>Theranostics</i> , 2012, 2, 817-826.	4.6	20

#	ARTICLE	IF	CITATIONS
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.	2.4	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.	2.4	25
78	Effects of incomplete decay in fluorescence lifetime estimation. Biomedical Optics Express, 2011, 2, 2517.	1.5	42
79	Development of a catadioptric endoscope objective with forward and side views. Journal of Biomedical Optics, 2011, 16, 066015.	1.4	20
80	High-Speed, Single-Photon Avalanche-Photodiode Imager for Biomedical Applications. IEEE Sensors Journal, 2011, 11, 2401-2412.	2.4	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.	1.4	65
85	Multilayered MOEMS Tunable Spectrometer for Fluorescence Lifetime Detection. IEEE Photonics Technology Letters, 2010, 22, 486-488.	1.3	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 "Thur Eve" 09: Effects of Small Sample Size on Diffuse Reflectance Spectroscopy for the Identification of Brain Tumours. Medical Physics, 2010, 37, 3888-3888.	1.6	0
90	Integrated CMOS Sensors for Fluorescence Spectroscopy and Imaging. , 2009, , .		3

#	ARTICLE	IF	CITATIONS
91	Performance of a Diaphragmed Microlens for a Packaged Microspectrometer. <i>Sensors</i> , 2009, 9, 859-868.	2.1	1
92	CMOS photodetector systems for low-level light applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2009, 20, 87-93.	1.1	18
93	High-throughput acousto-optic-tunable-filter-based time-resolved fluorescence spectrometer for optical biopsy. <i>Optics Letters</i> , 2009, 34, 1132.	1.7	24
94	CMOS Image Sensors for High Speed Applications. <i>Sensors</i> , 2009, 9, 430-444.	2.1	154
95	Detection of rupture-prone atherosclerotic plaques by time-resolved laser-induced fluorescence spectroscopy. <i>Atherosclerosis</i> , 2009, 204, 156-164.	0.4	77
96	Fully Integrated Single Photon Avalanche Diode Detector in Standard CMOS 0.18- μm Technology. <i>IEEE Transactions on Electron Devices</i> , 2008, 55, 760-767.	1.6	140
97	Toward a Miniaturized Wireless Fluorescence-Based Diagnostic Imaging System. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2008, 14, 226-234.	1.9	46
98	Characterization of Fluorescence Lifetime of Photofrin and Delta-Aminolevulinic Acid Induced Protoporphyrin IX in Living Cells Using Single- and Two-Photon Excitation. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2008, 14, 158-166.	1.9	32
99	Single-shot acquisition of time-resolved fluorescence spectra using a multiple delay optical fiber bundle. <i>Optics Letters</i> , 2008, 33, 791.	1.7	10
100	CMOS imaging for biomedical applications. <i>IEEE Potentials</i> , 2008, 27, 31-36.	0.2	15
101	Towards a Lab-in-a-Pill for Wireless GI Endoscopy. <i>ECS Meeting Abstracts</i> , 2008, , .	0.0	0
102	CMOS Camera-on-Chip Image Sensor for Biomedical Applications. <i>ECS Meeting Abstracts</i> , 2008, , .	0.0	0
103	Breakdown Mechanism in Silicon Avalanche Photodiodes. <i>ECS Meeting Abstracts</i> , 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. <i>Methods of Information in Medicine</i> , 2007, 46, 206-211.	0.7	5
107	CMOS-Based Active Pixel for Low-Light-Level Detection: Analysis and Measurements. <i>IEEE Transactions on Electron Devices</i> , 2007, 54, 3229-3237.	1.6	32
108	New methods for time-resolved fluorescence spectroscopy data analysis based on the Laguerre expansion technique-applications in tissue diagnosis. <i>Methods of Information in Medicine</i> , 2007, 46, 206-11.	0.7	3

#	ARTICLE	IF	CITATIONS
109	Distinction of brain tissue, low grade and high grade glioma with time-resolved fluorescence spectroscopy. <i>Frontiers in Bioscience - Landmark</i> , 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. <i>Journal of Biomedical Optics</i> , 2006, 11, 021004.	1.4	50
113	Diagnosis of Vulnerable Atherosclerotic Plaques by Time-Resolved Fluorescence Spectroscopy and Ultrasound Imaging. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 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. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2005, 11, 835-845.	1.9	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. <i>Atherosclerosis</i> , 2005, 181, 295-303.	0.4	65
120	Time-domain laser-induced fluorescence spectroscopy apparatus for clinical diagnostics. <i>Review of Scientific Instruments</i> , 2004, 75, 151-162.	0.6	122
121	Fast model-free deconvolution of fluorescence decay for analysis of biological systems. <i>Journal of Biomedical Optics</i> , 2004, 9, 743.	1.4	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. <i>Applied Optics</i> , 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. <i>IEEE Journal of Quantum Electronics</i> , 2004, 40, 69-77.	1.0	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

#	ARTICLE	IF	CITATIONS
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.	1.0	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.	1.0	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 90° geometry. Applied Physics B: Lasers and Optics, 1996, 63, 35-38.	1.1	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 ₃ :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