

Cheng Lei

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1647975/publications.pdf>

Version: 2024-02-01

48
papers

1,797
citations

361413

20
h-index

289244

40
g-index

50
all docs

50
docs citations

50
times ranked

2002
citing authors

#	ARTICLE	IF	CITATIONS
1	Intelligent Image-Activated Cell Sorting. <i>Cell</i> , 2018, 175, 266-276.e13.	28.9	395
2	Label-free chemical imaging flow cytometry by high-speed multicolor stimulated Raman scattering. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 15842-15848.	7.1	130
3	Raman image-activated cell sorting. <i>Nature Communications</i> , 2020, 11, 3452.	12.8	116
4	High-throughput imaging flow cytometry by optofluidic time-stretch microscopy. <i>Nature Protocols</i> , 2018, 13, 1603-1631.	12.0	112
5	Optical time-stretch imaging: Principles and applications. <i>Applied Physics Reviews</i> , 2016, 3, 011102.	11.3	93
6	Virtual-freezing fluorescence imaging flow cytometry. <i>Nature Communications</i> , 2020, 11, 1162.	12.8	93
7	AI on a chip. <i>Lab on A Chip</i> , 2020, 20, 3074-3090.	6.0	80
8	Label-free detection of cellular drug responses by high-throughput bright-field imaging and machine learning. <i>Scientific Reports</i> , 2017, 7, 12454.	3.3	78
9	Label-free detection of aggregated platelets in blood by machine-learning-aided optofluidic time-stretch microscopy. <i>Lab on A Chip</i> , 2017, 17, 2426-2434.	6.0	65
10	High-throughput, label-free, single-cell, microalgal lipid screening by machine-learning-equipped optofluidic time-stretch quantitative phase microscopy. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2017, 91, 494-502.	1.5	60
11	Intelligent classification of platelet aggregates by agonist type. <i>ELife</i> , 2020, 9, .	6.0	49
12	Intelligent whole-blood imaging flow cytometry for simple, rapid, and cost-effective drug-susceptibility testing of leukemia. <i>Lab on A Chip</i> , 2019, 19, 2688-2698.	6.0	48
13	High-Speed Imaging Meets Single-Cell Analysis. <i>CheM</i> , 2018, 4, 2278-2300.	11.7	37
14	Optofluidic time-stretch quantitative phase microscopy. <i>Methods</i> , 2018, 136, 116-125.	3.8	35
15	High-throughput label-free image cytometry and image-based classification of live <i>Euglena gracilis</i> . <i>Biomedical Optics Express</i> , 2016, 7, 2703.	2.9	34
16	Multiwavelength time-stretch imaging system. <i>Optics Letters</i> , 2014, 39, 2202.	3.3	30
17	High-throughput optofluidic particle profiling with morphological and chemical specificity. <i>Optics Letters</i> , 2015, 40, 4803.	3.3	28
18	High-Throughput Accurate Single-Cell Screening of <i>Euglena gracilis</i> with Fluorescence-Assisted Optofluidic Time-Stretch Microscopy. <i>PLoS ONE</i> , 2016, 11, e0166214.	2.5	23

#	ARTICLE	IF	CITATIONS
19	Photonics-Assisted Serial Channelized Radio-Frequency Measurement System With Nyquist-Bandwidth Detection. <i>IEEE Photonics Journal</i> , 2014, 6, 1-7.	2.0	22
20	Serial wavelength division 1â€‰GHz line-scan microscopic imaging. <i>Photonics Research</i> , 2014, 2, B31.	7.0	21
21	Intelligent frequency-shifted optofluidic time-stretch quantitative phase imaging. <i>Optics Express</i> , 2020, 28, 519.	3.4	21
22	Effects of Flowâ€‰Induced Microfluidic Chip Wall Deformation on Imaging Flow Cytometry. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2020, 97, 909-920.	1.5	20
23	Recirculating Frequency Shifting Based Wideband Optical Frequency Comb Generation by Phase Coherence Control. <i>IEEE Photonics Journal</i> , 2015, 7, 1-7.	2.0	19
24	16Ã—10Gb/s symmetric WDM-FOFDM-PON realization with colorless ONUs. <i>Optics Express</i> , 2011, 19, 15275.	3.4	16
25	Intelligent Platelet Morphometry. <i>Trends in Biotechnology</i> , 2021, 39, 978-989.	9.3	16
26	Virtual optofluidic time-stretch quantitative phase imaging. <i>APL Photonics</i> , 2020, 5, 046103.	5.7	15
27	1-Tb/s WDM-OFDM-PON System With Subband Access Scheme and Flexible Subcarrier-Level Bandwidth Allocation. <i>IEEE Photonics Journal</i> , 2013, 5, 7900208-7900208.	2.0	14
28	Dense Contour-Imbalance Aware framework for Colon Gland Instance Segmentation. <i>Biomedical Signal Processing and Control</i> , 2020, 60, 101988.	5.7	13
29	AI boosts photonics and vice versa. <i>APL Photonics</i> , 2020, 5, 070401.	5.7	13
30	A high spectral efficiency optical OFDM scheme based on interleaved multiplexing. <i>Optics Express</i> , 2010, 18, 26149.	3.4	12
31	GHz Optical Time-Stretch Microscopy by Compressive Sensing. <i>IEEE Photonics Journal</i> , 2017, 9, 1-8.	2.0	12
32	Intelligent Image Deâ€‰Blurring for Imaging Flow Cytometry. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2019, 95, 549-554.	1.5	12
33	Time-stretch high-speed microscopic imaging system based on temporally and spectrally shaped amplified spontaneous emission. <i>Optics Letters</i> , 2015, 40, 946.	3.3	9
34	Adversarial Multiscale Feature Learning Framework for Overlapping Chromosome Segmentation. <i>Entropy</i> , 2022, 24, 522.	2.2	9
35	Optofluidic time-stretch microscopy: recent advances. <i>Optical Review</i> , 2018, 25, 464-472.	2.0	8
36	The complete optical oscilloscope. <i>Nature Photonics</i> , 2018, 12, 190-191.	31.4	7

#	ARTICLE	IF	CITATIONS
37	Morphological Indicator for Directed Evolution of <i>Euglena gracilis</i> with a High Heavy Metal Removal Efficiency. <i>Environmental Science & Technology</i> , 2021, 55, 7880-7889.	10.0	7
38	Temporally interleaved optical time-stretch imaging. <i>Optics Letters</i> , 2020, 45, 2387.	3.3	7
39	Ultrafast imaging for uncovering laser-material interaction dynamics. <i>International Journal of Mechanical System Dynamics</i> , 2022, 2, 65-81.	2.8	6
40	Real-time and high-sensitivity refractive index sensing with an arched optofluidic waveguide. <i>Optics Express</i> , 0, , .	3.4	4
41	Analysis of signal detection configurations in optical time-stretch imaging. <i>Optics Express</i> , 2020, 28, 29272.	3.4	3
42	Temporally controlled wideband optical frequency comb generation based on recirculating frequency shifting. , 2014, , .		2
43	High-throughput, label-free, multivariate cell analysis with optofluidic time-stretch microscopy. , 2017, , .		2
44	High-throughput label-free screening of <i>euglena gracilis</i> with optofluidic time-stretch quantitative phase microscopy. , 2017, , .		1
45	Improving O-OFDM system performance with constellation fine adjustment. , 2010, , .		0
46	Photonics generation of linearly chirped electrical pulse with ultra-wide frequency band up to THz. , 2013, , .		0
47	Time-stretch imaging and beyond. , 2018, , .		0
48	A comparison of image recognition algorithms for cell phenotyping in optofluidic time-stretch microscopy. , 2019, , .		0