Cheng Lei

List of Publications by Year in descending order

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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	Ultrafast imaging for uncovering laserâ€“material interaction dynamics. International Journal of Mechanical System Dynamics, 2022, 2, 65-81.	2.8	6
2	Adversarial Multiscale Feature Learning Framework for Overlapping Chromosome Segmentation. Entropy, 2022, 24, 522.	2.2	9
3	Morphological Indicator for Directed Evolution of Euglena gracilis with a High Heavy Metal Removal Efficiency. Environmental Science & Technology, 2021, 55, 7880-7889.	10.0	7
4	Intelligent Platelet Morphometry. Trends in Biotechnology, 2021, 39, 978-989.	9.3	16
5	Effects of Flowâ€Induced Microfluidic Chip Wall Deformation on Imaging Flow Cytometry. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2020, 97, 909-920.	1.5	20
6	Dense Contour-Imbalance Aware framework for Colon Gland Instance Segmentation. Biomedical Signal Processing and Control, 2020, 60, 101988.	5.7	13
7	Raman image-activated cell sorting. Nature Communications, 2020, 11, 3452.	12.8	116
8	AI boosts photonics and vice versa. APL Photonics, 2020, 5, 070401.	5.7	13
9	Virtual-freezing fluorescence imaging flow cytometry. Nature Communications, 2020, 11, 1162.	12.8	93
10	AI on a chip. Lab on A Chip, 2020, 20, 3074-3090.	6.0	80
11	Virtual optofluidic time-stretch quantitative phase imaging. APL Photonics, 2020, 5, 046103.	5.7	15
12	Intelligent frequency-shifted optofluidic time-stretch quantitative phase imaging. Optics Express, 2020, 28, 519.	3.4	21
13	Temporally interleaved optical time-stretch imaging. Optics Letters, 2020, 45, 2387.	3.3	7
14	Intelligent classification of platelet aggregates by agonist type. ELife, 2020, 9, .	6.0	49
15	Analysis of signal detection configurations in optical time-stretch imaging. Optics Express, 2020, 28, 29272.	3.4	3
16	Intelligent whole-blood imaging flow cytometry for simple, rapid, and cost-effective drug-susceptibility testing of leukemia. Lab on A Chip, 2019, 19, 2688-2698.	6.0	48
17	Label-free chemical imaging flow cytometry by high-speed multicolor stimulated Raman scattering. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 15842-15848.	7.1	130
18	Intelligent Image Deâ€Blurring for Imaging Flow Cytometry. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2019, 95, 549-554.	1.5	12

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19	A comparison of image recognition algorithms for cell phenotyping in optofluidic time-stretch microscopy. , 2019, , .		0
20	Optofluidic time-stretch microscopy: recent advances. Optical Review, 2018, 25, 464-472.	2.0	8
21	The complete optical oscilloscope. Nature Photonics, 2018, 12, 190-191.	31.4	7
22	Optofluidic time-stretch quantitative phase microscopy. Methods, 2018, 136, 116-125.	3.8	35
23	High-throughput imaging flow cytometry by optofluidic time-stretch microscopy. Nature Protocols, 2018, 13, 1603-1631.	12.0	112
24	High-Speed Imaging Meets Single-Cell Analysis. CheM, 2018, 4, 2278-2300.	11.7	37
25	Intelligent Image-Activated Cell Sorting. Cell, 2018, 175, 266-276.e13.	28.9	395
26	Time-stretch imaging and beyond. , 2018, , .		0
27	High-throughput label-free screening of euglena gracilis with optofluidic time-stretch quantitative phase microscopy. , 2017, , .		1
28	Highâ€throughput, labelâ€free, singleâ€cell, microalgal lipid screening by machineâ€learningâ€equipped optofluidic timeâ€stretch quantitative phase microscopy. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2017, 91, 494-502.	1.5	60
29	Label-free detection of aggregated platelets in blood by machine-learning-aided optofluidic time-stretch microscopy. Lab on A Chip, 2017, 17, 2426-2434.	6.0	65
30	Label-free detection of cellular drug responses by high-throughput bright-field imaging and machine learning. Scientific Reports, 2017, 7, 12454.	3.3	78
31	GHz Optical Time-Stretch Microscopy by Compressive Sensing. IEEE Photonics Journal, 2017, 9, 1-8.	2.0	12
32	High-throughput, label-free, multivariate cell analysis with optofluidic time-stretch microscopy. , 2017, , .		2
33	Optical time-stretch imaging: Principles and applications. Applied Physics Reviews, 2016, 3, 011102.	11.3	93
34	High-throughput label-free image cytometry and image-based classification of live Euglena gracilis. Biomedical Optics Express, 2016, 7, 2703.	2.9	34
35	High-Throughput Accurate Single-Cell Screening of Euglena gracilis with Fluorescence-Assisted Optofluidic Time-Stretch Microscopy. PLoS ONE, 2016, 11, e0166214.	2.5	23
36	Time-stretch high-speed microscopic imaging system based on temporally and spectrally shaped amplified spontaneous emission. Optics Letters, 2015, 40, 946.	3.3	9

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37	High-throughput optofluidic particle profiling with morphological and chemical specificity. Optics Letters, 2015, 40, 4803.	3.3	28
38	Recirculating Frequency Shifting Based Wideband Optical Frequency Comb Generation by Phase Coherence Control. IEEE Photonics Journal, 2015, 7, 1-7.	2.0	19
39	Photonics-Assisted Serial Channelized Radio-Frequency Measurement System With Nyquist-Bandwidth Detection. IEEE Photonics Journal, 2014, 6, 1-7.	2.0	22
40	Temporally controlled wideband optical frequency comb generation based on recirculating frequency shifting. , 2014, , .		2
41	Serial wavelength division 1â€‰â€‰GHz line-scan microscopic imaging. Photonics Research, 2014, 2, B31.	7.0	21
42	Multiwavelength time-stretch imaging system. Optics Letters, 2014, 39, 2202.	3.3	30
43	Photonics generation of linearly chirped electrical pulse with ultra-wide frequency band up to THz. , 2013, , .		0
44	1-Tb/s WDM-OFDM-PON System With Subband Access Scheme and Flexible Subcarrier-Level Bandwidth Allocation. IEEE Photonics Journal, 2013, 5, 7900208-7900208.	2.0	14
45	16Ã—10Gb/s symmetric WDM-FOFDM-PON realization with colorless ONUs. Optics Express, 2011, 19, 15275.	3.4	16
46	A high spectral efficiency optical OFDM scheme based on interleaved multiplexing. Optics Express, 2010, 18, 26149.	3.4	12
47	Improving O-OFDM system performance with constellation fine adjustment. , 2010, , .		0
48	Real-time and high-sensitivity refractive index sensing with an arched optofluidic waveguide. Optics Express, 0, , .	3.4	4