

Lujiang Yan

List of Publications by Citations

Source: <https://exaly.com/author-pdf/4360097/lujiang-yan-publications-by-citations.pdf>

Version: 2024-04-25

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

72
papers

1,847
citations

20
h-index

42
g-index

97
ext. papers

2,400
ext. citations

6.1
avg, IF

4.74
L-index

#	Paper	IF	Citations
72	Fluidic adaptive lens with high focal length tunability. <i>Applied Physics Letters</i> , 2003 , 82, 3171-3172	3.4	284
71	Strain engineering and epitaxial stabilization of halide perovskites. <i>Nature</i> , 2020 , 577, 209-215	50.4	213
70	Human mammalian cell sorting using a highly integrated micro-fabricated fluorescence-activated cell sorter (microFACS). <i>Lab on A Chip</i> , 2010 , 10, 1567-73	7.2	142
69	Review: imaging technologies for flow cytometry. <i>Lab on A Chip</i> , 2016 , 16, 4639-4647	7.2	127
68	Nucleic Acid Aptamers: An Emerging Tool for Biotechnology and Biomedical Sensing. <i>Sensors</i> , 2015 , 15, 16281-313	3.8	100
67	Universally applicable three-dimensional hydrodynamic microfluidic flow focusing. <i>Lab on A Chip</i> , 2013 , 13, 1803-9	7.2	67
66	Microfluidic cell sorter with integrated piezoelectric actuator. <i>Biomedical Microdevices</i> , 2009 , 11, 1223-31	3.7	61
65	Demonstration of two-dimensional fluidic lens for integration into microfluidic flow cytometers. <i>Applied Physics Letters</i> , 2006 , 89, 061106	3.4	55
64	Symmetry-breaking-induced plasmonic exceptional points and nanoscale sensing. <i>Nature Physics</i> , 2020 , 16, 462-468	16.2	53
63	Controlled Homoepitaxial Growth of Hybrid Perovskites. <i>Advanced Materials</i> , 2018 , 30, e1705992	24	51
62	Fluidic adaptive lens of transformable lens type. <i>Applied Physics Letters</i> , 2004 , 84, 4194-4196	3.4	49
61	A Single-Cell Assay for Time Lapse Studies of Exosome Secretion and Cell Behaviors. <i>Small</i> , 2016 , 12, 3658-66	11	46
60	A cell-free expression and purification process for rapid production of protein biologics. <i>Biotechnology Journal</i> , 2016 , 11, 238-48	5.6	43
59	Specific sorting of single bacterial cells with microfabricated fluorescence-activated cell sorting and tyramide signal amplification fluorescence in situ hybridization. <i>Analytical Chemistry</i> , 2011 , 83, 7269-75	7.8	42
58	High-sensitivity cytometric detection using fluidic-photonic integrated circuits with array waveguides. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2005 , 11, 827-834	3.8	37
57	Imaging Cells in Flow Cytometer Using Spatial-Temporal Transformation. <i>Scientific Reports</i> , 2015 , 5, 13267	4.9	36
56	A prealigned process of integrating optical waveguides with microfluidic devices. <i>IEEE Photonics Technology Letters</i> , 2004 , 16, 1525-1527	2.2	34

55	Machine Learning Based Real-Time Image-Guided Cell Sorting and Classification. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2019 , 95, 499-509	4.6	29
54	Reversing Coffee-Ring Effect by Laser-Induced Differential Evaporation. <i>Scientific Reports</i> , 2018 , 8, 31574	4.9	26
53	Fluidic photonic integrated circuit for in-line detection. <i>Applied Physics Letters</i> , 2005 , 87, 194106	3.4	22
52	Bias dependence of sub-bandgap light detection for core-shell silicon nanowires. <i>Nano Letters</i> , 2012 , 12, 5929-35	11.5	20
51	InGaAs single photon avalanche detector with ultralow excess noise. <i>Applied Physics Letters</i> , 2007 , 91, 081107	3.4	19
50	Self-Assembled Pico-Liter Droplet Microarray for Ultrasensitive Nucleic Acid Quantification. <i>ACS Nano</i> , 2015 , 9, 10655-63	16.7	18
49	Self-quenching InGaAs/InP single photon avalanche detector utilizing zinc diffusion rings. <i>Optics Express</i> , 2011 , 19, 15149-54	3.3	17
48	Protein-Ligand Interaction Detection with a Novel Method of Transient Induced Molecular Electronic Spectroscopy (TIMES): Experimental and Theoretical Studies. <i>ACS Central Science</i> , 2016 , 2, 834-842	16.8	14
47	Single photon avalanche detectors: prospects of new quenching and gain mechanisms. <i>Nanophotonics</i> , 2015 , 4, 397-412	6.3	13
46	Fluidic zoom-lens-on-a-chip with wide field-of-view tuning range. <i>IEEE Photonics Technology Letters</i> , 2004 , 16, 2356-2358	2.2	12
45	Cameraless high-throughput three-dimensional imaging flow cytometry. <i>Optica</i> , 2019 , 6, 1297	8.6	12
44	Discovery of a photoresponse amplification mechanism in compensated PN junctions. <i>Applied Physics Letters</i> , 2015 , 106, 031103	3.4	11
43	Cycling excitation process: An ultra efficient and quiet signal amplification mechanism in semiconductor. <i>Applied Physics Letters</i> , 2015 , 107, 053505	3.4	11
42	An amorphous silicon photodiode with 2 THz gain-bandwidth product based on cycling excitation process. <i>Applied Physics Letters</i> , 2017 , 111, 101104	3.4	10
41	Physics of Single Photon Avalanche Detectors With Built-In Self-Quenching and Self-Recovering Capabilities. <i>IEEE Journal of Quantum Electronics</i> , 2012 , 48, 960-967	2	9
40	Integrated fluidic lenses and optic systems. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2005 , 11, 97-106	3.8	9
39	Array atomic force microscopy for real-time multiparametric analysis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 5872-5877	11.5	8
38	Integrated 1550 nm photoreceiver with built-in amplification and feedback mechanisms. <i>Optics Letters</i> , 2013 , 38, 4166-9	3	8

37	Computational cell analysis for label-free detection of cell properties in a microfluidic laminar flow. <i>Analyst, The</i> , 2016 , 141, 4142-50	5	8
36	In Vivo Photovoltaic Performance of a Silicon Nanowire Photodiode-Based Retinal Prosthesis 2018 , 59, 5885-5892		8
35	Rapid Waterborne Pathogen Detection with Mobile Electronics. <i>Sensors</i> , 2017 , 17,	3.8	7
34	Complementary metal-oxide-semiconductor compatible 1060 nm photodetector with ultrahigh gain under low bias. <i>Optics Letters</i> , 2015 , 40, 4440-3	3	7
33	Scattering-Based Cytometric Detection Using Integrated Arrayed Waveguides With Microfluidics. <i>IEEE Photonics Technology Letters</i> , 2007 , 19, 441-443	2.2	7
32	Analysis of Hot-Carrier Luminescence for Infrared Single-Photon Upconversion and Readout. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2007 , 13, 959-966	3.8	7
31	Nonsteady-state surface plasmons in periodically patterned structures. <i>Journal of Applied Physics</i> , 2004 , 95, 4163-4172	2.5	6
30	Microspherical surfaces with predefined focal lengths fabricated using microfluidic capillaries. <i>Applied Physics Letters</i> , 2003 , 83, 5563-5565	3.4	6
29	Room-temperature long-wave infrared detector with thin double layers of amorphous germanium and amorphous silicon. <i>Optics Express</i> , 2019 , 27, 37056-37064	3.3	6
28	Thin-Film Transistor-Based Biosensors for Determining Stoichiometry of Biochemical Reactions. <i>PLoS ONE</i> , 2016 , 11, e0169094	3.7	6
27	A two-stage electrophoretic microfluidic device for nucleic acid collection and enrichment. <i>Microfluidics and Nanofluidics</i> , 2016 , 20, 1	2.8	6
26	High efficiency silicon 1310 nm detector without defect states or heteroepitaxy. <i>Applied Physics Letters</i> , 2013 , 103, 041119	3.4	5
25	Single photon detector with a mesoscopic cycling excitation design of dual gain sections and a transport barrier. <i>Optics Letters</i> , 2019 , 44, 1746-1749	3	5
24	Plasmonically Enhanced Amorphous Silicon Photodetector With Internal Gain. <i>IEEE Photonics Technology Letters</i> , 2019 , 31, 959-962	2.2	4
23	Defect Assisted Carrier Multiplication in Amorphous Silicon. <i>IEEE Journal of Quantum Electronics</i> , 2020 , 56, 1-11	2	4
22	Transient Induced Molecular Electronic Spectroscopy (TIMES) for study of protein-ligand interactions. <i>Scientific Reports</i> , 2016 , 6, 35570	4.9	4
21	Non-Geiger mode single photon detector with multiple amplification and gain control mechanisms. <i>Journal of Applied Physics</i> , 2014 , 115, 173104	2.5	4
20	Integrated Fluidic Photonics for Multi-Parameter In-Plane Detection in Microfluidic Flow Cytometry 2006 ,		4

19	Image-guided cell sorting using fast scanning lasers. <i>APL Photonics</i> , 2020 , 5, 040801	5.2	3
18	Modeling Gain Mechanisms in Amorphous Silicon Due to Efficient Carrier Multiplication and Trap-Induced Junction Modulation. <i>Journal of Lightwave Technology</i> , 2019 , 37, 5056-5066	4	3
17	Quantitative Analysis of Exosome Secretion Rates of Single Cells. <i>Bio-protocol</i> , 2017 , 7,	0.9	3
16	Comment on "Ghost cytometry". <i>Science</i> , 2019 , 364,	33.3	3
15	3D side-scattering imaging flow cytometer and convolutional neural network for label-free cell analysis. <i>APL Photonics</i> , 2020 , 5, 126105	5.2	3
14	Characterizations of protein-ligand reaction kinetics by transistor-microfluidic integrated sensors. <i>Analytica Chimica Acta</i> , 2020 , 1110, 1-10	6.6	2
13	Approaching the Quantum Limit of Photodetection in Solid-State Photodetectors. <i>IEEE Transactions on Electron Devices</i> , 2017 , 64, 4812-4822	2.9	2
12	Planar and vertical Si nanowire photodetectors 2008 ,		2
11	Engineering of quantum dot emission wavelength using conductive layer coating. <i>Applied Physics Letters</i> , 2006 , 88, 243104	3.4	2
10	Microfluidic Flow Cytometer with On-Chip Lens Systems for Improved Signal Resolution 2007 ,		2
9	A novel technology for fabricating gratings of any chirp characteristics by design. <i>IEEE Photonics Technology Letters</i> , 2003 , 15, 712-714	2.2	2
8	Using airflow-driven, evaporative gradients to improve sensitivity and fluid control in colorimetric paper-based assays. <i>Lab on A Chip</i> , 2021 , 21, 4249-4261	7.2	2
7	A microfluidic design for desalination and selective removal and addition of components in biosamples. <i>Biomicrofluidics</i> , 2019 , 13, 024109	3.2	1
6	InGaAs/InP MOS Single Photon Detector 2006 ,		1
5	Cycling excitation process for light detection and signal amplification in semiconductors 2016 ,		1
4	High Sensitivity, Rapid Detection of Virus in High Traffic Environments.. <i>Frontiers in Bioengineering and Biotechnology</i> , 2022 , 10, 877603	5.8	1
3	Label-free image-encoded microfluidic cell sorter with a scanning Bessel beam. <i>APL Photonics</i> , 2021 , 6, 076101	5.2	0
2	A Physics Based Unified Circuit Model for Single Photon and Analog Detector. <i>IEEE Access</i> , 2021 , 9, 1295315-129581	3.5	1

- 1 Athermalized carrier multiplication mechanism for detectors using an amorphous silicon gain medium. *Optics Express*, **2022**, 30, 16947

33