

Lujiang Yan

List of Publications by Year in Descending Order

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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	High Sensitivity, Rapid Detection of Virus in High Traffic Environments.. <i>Frontiers in Bioengineering and Biotechnology</i> , 2022 , 10, 877603	5.8	1
71	Athermalized carrier multiplication mechanism for detectors using an amorphous silicon gain medium. <i>Optics Express</i> , 2022 , 30, 16947	3.3	
70	A Physics Based Unified Circuit Model for Single Photon and Analog Detector. <i>IEEE Access</i> , 2021 , 9, 129531-129581	3.5	
69	Label-free image-encoded microfluidic cell sorter with a scanning Bessel beam. <i>APL Photonics</i> , 2021 , 6, 076101	5.2	0
68	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
67	Image-guided cell sorting using fast scanning lasers. <i>APL Photonics</i> , 2020 , 5, 040801	5.2	3
66	Characterizations of protein-ligand reaction kinetics by transistor-microfluidic integrated sensors. <i>Analytica Chimica Acta</i> , 2020 , 1110, 1-10	6.6	2
65	Symmetry-breaking-induced plasmonic exceptional points and nanoscale sensing. <i>Nature Physics</i> , 2020 , 16, 462-468	16.2	53
64	Defect Assisted Carrier Multiplication in Amorphous Silicon. <i>IEEE Journal of Quantum Electronics</i> , 2020 , 56, 1-11	2	4
63	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
62	Strain engineering and epitaxial stabilization of halide perovskites. <i>Nature</i> , 2020 , 577, 209-215	50.4	213
61	Plasmonically Enhanced Amorphous Silicon Photodetector With Internal Gain. <i>IEEE Photonics Technology Letters</i> , 2019 , 31, 959-962	2.2	4
60	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
59	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
58	A microfluidic design for desalination and selective removal and addition of components in biosamples. <i>Biomicrofluidics</i> , 2019 , 13, 024109	3.2	1
57	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
56	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

55	Cameraless high-throughput three-dimensional imaging flow cytometry. <i>Optica</i> , 2019 , 6, 1297	8.6	12
54	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
53	Comment on "Ghost cytometry". <i>Science</i> , 2019 , 364,	33.3	3
52	Controlled Homoepitaxial Growth of Hybrid Perovskites. <i>Advanced Materials</i> , 2018 , 30, e1705992	24	51
51	Reversing Coffee-Ring Effect by Laser-Induced Differential Evaporation. <i>Scientific Reports</i> , 2018 , 8, 31574.9	26	
50	In Vivo Photovoltaic Performance of a Silicon Nanowire Photodiode-Based Retinal Prosthesis 2018 , 59, 5885-5892		8
49	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
48	Approaching the Quantum Limit of Photodetection in Solid-State Photodetectors. <i>IEEE Transactions on Electron Devices</i> , 2017 , 64, 4812-4822	2.9	2
47	Rapid Waterborne Pathogen Detection with Mobile Electronics. <i>Sensors</i> , 2017 , 17,	3.8	7
46	Quantitative Analysis of Exosome Secretion Rates of Single Cells. <i>Bio-protocol</i> , 2017 , 7,	0.9	3
45	Transient Induced Molecular Electronic Spectroscopy (TIMES) for study of protein-ligand interactions. <i>Scientific Reports</i> , 2016 , 6, 35570	4.9	4
44	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
43	Review: imaging technologies for flow cytometry. <i>Lab on A Chip</i> , 2016 , 16, 4639-4647	7.2	127
42	Thin-Film Transistor-Based Biosensors for Determining Stoichiometry of Biochemical Reactions. <i>PLoS ONE</i> , 2016 , 11, e0169094	3.7	6
41	A Single-Cell Assay for Time Lapse Studies of Exosome Secretion and Cell Behaviors. <i>Small</i> , 2016 , 12, 3658-66	11	46
40	A cell-free expression and purification process for rapid production of protein biologics. <i>Biotechnology Journal</i> , 2016 , 11, 238-48	5.6	43
39	Cycling excitation process for light detection and signal amplification in semiconductors 2016 ,		1
38	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

37	A two-stage electrophoretic microfluidic device for nucleic acid collection and enrichment. <i>Microfluidics and Nanofluidics</i> , 2016 , 20, 1	2.8	6
36	Discovery of a photoresponse amplification mechanism in compensated PN junctions. <i>Applied Physics Letters</i> , 2015 , 106, 031103	3.4	11
35	Self-Assembled Pico-Liter Droplet Microarray for Ultrasensitive Nucleic Acid Quantification. <i>ACS Nano</i> , 2015 , 9, 10655-63	16.7	18
34	Cycling excitation process: An ultra efficient and quiet signal amplification mechanism in semiconductor. <i>Applied Physics Letters</i> , 2015 , 107, 053505	3.4	11
33	Imaging Cells in Flow Cytometer Using Spatial-Temporal Transformation. <i>Scientific Reports</i> , 2015 , 5, 132679	6.7	36
32	Single photon avalanche detectors: prospects of new quenching and gain mechanisms. <i>Nanophotonics</i> , 2015 , 4, 397-412	6.3	13
31	Nucleic Acid Aptamers: An Emerging Tool for Biotechnology and Biomedical Sensing. <i>Sensors</i> , 2015 , 15, 16281-313	3.8	100
30	Complementary metal-oxide-semiconductor compatible 1060 nm photodetector with ultrahigh gain under low bias. <i>Optics Letters</i> , 2015 , 40, 4440-3	3	7
29	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
28	High efficiency silicon 1310 nm detector without defect states or heteroepitaxy. <i>Applied Physics Letters</i> , 2013 , 103, 041119	3.4	5
27	Universally applicable three-dimensional hydrodynamic microfluidic flow focusing. <i>Lab on A Chip</i> , 2013 , 13, 1803-9	7.2	67
26	Integrated 1550 nm photoreceiver with built-in amplification and feedback mechanisms. <i>Optics Letters</i> , 2013 , 38, 4166-9	3	8
25	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
24	Bias dependence of sub-bandgap light detection for core-shell silicon nanowires. <i>Nano Letters</i> , 2012 , 12, 5929-35	11.5	20
23	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
22	Self-quenching InGaAs/InP single photon avalanche detector utilizing zinc diffusion rings. <i>Optics Express</i> , 2011 , 19, 15149-54	3.3	17
21	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
20	Microfluidic cell sorter with integrated piezoelectric actuator. <i>Biomedical Microdevices</i> , 2009 , 11, 1223-31	3.7	61

19	Planar and vertical Si nanowire photodetectors 2008 ,		2
18	Scattering-Based Cytometric Detection Using Integrated Arrayed Waveguides With Microfluidics. <i>IEEE Photonics Technology Letters</i> , 2007 , 19, 441-443	2.2	7
17	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
16	Microfluidic Flow Cytometer with On-Chip Lens Systems for Improved Signal Resolution 2007 ,		2
15	InGaAs single photon avalanche detector with ultralow excess noise. <i>Applied Physics Letters</i> , 2007 , 91, 081107	3.4	19
14	Engineering of quantum dot emission wavelength using conductive layer coating. <i>Applied Physics Letters</i> , 2006 , 88, 243104	3.4	2
13	InGaAs/InP MOS Single Photon Detector 2006 ,		1
12	Demonstration of two-dimensional fluidic lens for integration into microfluidic flow cytometers. <i>Applied Physics Letters</i> , 2006 , 89, 061106	3.4	55
11	Integrated Fluidic Photonics for Multi-Parameter In-Plane Detection in Microfluidic Flow Cytometry 2006 ,		4
10	Fluidic photonic integrated circuit for in-line detection. <i>Applied Physics Letters</i> , 2005 , 87, 194106	3.4	22
9	Integrated fluidic lenses and optic systems. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2005 , 11, 97-106	3.8	9
8	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
7	Fluidic adaptive lens of transformable lens type. <i>Applied Physics Letters</i> , 2004 , 84, 4194-4196	3.4	49
6	Nonsteady-state surface plasmons in periodically patterned structures. <i>Journal of Applied Physics</i> , 2004 , 95, 4163-4172	2.5	6
5	A prealigned process of integrating optical waveguides with microfluidic devices. <i>IEEE Photonics Technology Letters</i> , 2004 , 16, 1525-1527	2.2	34
4	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
3	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
2	Fluidic adaptive lens with high focal length tunability. <i>Applied Physics Letters</i> , 2003 , 82, 3171-3172	3.4	284

- 1 Microspherical surfaces with predefined focal lengths fabricated using microfluidic capillaries.
Applied Physics Letters, **2003**, 83, 5563-5565

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