

Yu-Hwa Lo

List of Publications by Year in descending order

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42
papers

845
citations

687363

13
h-index

501196

28
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44
all docs

44
docs citations

44
times ranked

1325
citing authors

#	ARTICLE	IF	CITATIONS
1	A fabrication process for flexible single-crystal perovskite devices. <i>Nature</i> , 2020, 583, 790-795.	27.8	278
2	Silicon nanowire detectors showing phototransistive gain. <i>Applied Physics Letters</i> , 2008, 93, .	3.3	96
3	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.	1.5	60
4	Differentiating and quantifying exosome secretion from a single cell using quasi-bound states in the continuum. <i>Nanophotonics</i> , 2020, 9, 1081-1086.	6.0	54
5	Self-quenching and self-recovering InGaAs/InAlAs single photon avalanche detector. <i>Applied Physics Letters</i> , 2008, 93, .	3.3	34
6	Microfluidic cytometers with integrated on-chip optical systems for red blood cell and platelet counting. <i>Biomicrofluidics</i> , 2016, 10, 064119.	2.4	28
7	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.	11.3	27
8	Cameraless high-throughput three-dimensional imaging flow cytometry. <i>Optica</i> , 2019, 6, 1297.	9.3	24
9	Bias Dependence of Sub-Bandgap Light Detection for Core-Shell Silicon Nanowires. <i>Nano Letters</i> , 2012, 12, 5929-5935.	9.1	20
10	Frequency- and Power-Dependent Photoresponse of a Perovskite Photodetector Down to the Single-Photon Level. <i>Nano Letters</i> , 2020, 20, 2144-2151.	9.1	20
11	Self-quenching InGaAs/InP single photon avalanche detector utilizing zinc diffusion rings. <i>Optics Express</i> , 2011, 19, 15149.	3.4	19
12	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.	7.1	18
13	Discovery of a photoresponse amplification mechanism in compensated PN junctions. <i>Applied Physics Letters</i> , 2015, 106, 031103.	3.3	13
14	Cycling excitation process: An ultra efficient and quiet signal amplification mechanism in semiconductor. <i>Applied Physics Letters</i> , 2015, 107, 053505.	3.3	13
15	Image-guided cell sorting using fast scanning lasers. <i>APL Photonics</i> , 2020, 5, 040801.	5.7	12
16	An amorphous silicon photodiode with 2 THz gain-bandwidth product based on cycling excitation process. <i>Applied Physics Letters</i> , 2017, 111, 101104.	3.3	11
17	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.	1.9	10
18	3D side-scattering imaging flow cytometer and convolutional neural network for label-free cell analysis. <i>APL Photonics</i> , 2020, 5, 126105.	5.7	10

#	ARTICLE	IF	CITATIONS
19	Room-temperature long-wave infrared detector with thin double layers of amorphous germanium and amorphous silicon. Optics Express, 2019, 27, 37056.	3.4	10
20	Integrated 1550Ånm photoreceiver with built-in amplification and feedback mechanisms. Optics Letters, 2013, 38, 4166.	3.3	9
21	A Sub-pA Current Sensing Front-End for Transient Induced Molecular Spectroscopy. , 2019, , .		9
22	A high-throughput technique to map cell images to cell positions using a 3D imaging flow cytometer. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	9
23	Complementary metal-oxide-semiconductor compatible 1060nm photodetector with ultrahigh gain under low bias. Optics Letters, 2015, 40, 4440.	3.3	8
24	High efficiency silicon 1310nm detector without defect states or heteroepitaxy. Applied Physics Letters, 2013, 103, 041119.	3.3	6
25	Non-Geiger mode single photon detector with multiple amplification and gain control mechanisms. Journal of Applied Physics, 2014, 115, 173104.	2.5	6
26	Transient Induced Molecular Electronic Spectroscopy (TIMES) for study of protein-ligand interactions. Scientific Reports, 2016, 6, 35570.	3.3	5
27	Single photon detector with a mesoscopic cycling excitation design of dual gain sections and a transport barrier. Optics Letters, 2019, 44, 1746.	3.3	5
28	A 30.3 fA/ÅHz Biosensing Current Front-End With 139 dB Cross-Scale Dynamic Range. IEEE Transactions on Biomedical Circuits and Systems, 2021, 15, 1368-1379.	4.0	5
29	Defect Assisted Carrier Multiplication in Amorphous Silicon. IEEE Journal of Quantum Electronics, 2020, 56, 1-11.	1.9	4
30	Modeling Gain Mechanisms in Amorphous Silicon Due to Efficient Carrier Multiplication and Trap-Induced Junction Modulation. Journal of Lightwave Technology, 2019, 37, 5056-5066.	4.6	3
31	Detecting Protein-Ligand Interaction from Integrated Transient Induced Molecular Electronic Signal (i-TIMES). Analytical Chemistry, 2020, 92, 3852-3859.	6.5	3
32	Label-free image-encoded microfluidic cell sorter with a scanning Bessel beam. APL Photonics, 2021, 6, 076101.	5.7	3
33	Cycling excitation process for light detection and signal amplification in semiconductors. , 2016, , .		2
34	A high-efficiency low-noise signal amplification mechanism for photodetectors. , 2017, , .		2
35	Measuring Electric Charge and Molecular Coverage on Electrode Surface from Transient Induced Molecular Electronic Signal (TIMES). Scientific Reports, 2019, 9, 16279.	3.3	2
36	Multimodal NASH prognosis using 3D imaging flow cytometry and artificial intelligence to characterize liver cells. Scientific Reports, 2022, 12, .	3.3	2

#	ARTICLE	IF	CITATIONS
37	Physics of self-recovering single photon avalanche detectors. , 2011, , .		1
38	A Physics Based Unified Circuit Model for Single Photon and Analog Detector. IEEE Access, 2021, 9, 129571-129581.	4.2	1
39	Quantum detectors using cycling excitation process in disordered medium. , 2017, , .		0
40	Low Noise, High Gain-Bandwidth Photodetectors Using Cycling Exciting Process (CEP) as Amplification Mechanism. , 2018, , .		0
41	Fluid-filled tunable mold for polymer lenses. , 2008, , .		0
42	Athermalized carrier multiplication mechanism for detectors using an amorphous silicon gain medium. Optics Express, 2022, 30, 16947.	3.4	0