Lih Y Lin

List of Publications by Year
in descending order

75 papers	3,129 citations	218677 26 h-index	155660 55 g-index
76 all docs	76 docs citations	76 times ranked	5438 citing authors

#	Article	IF	Citations
1	Enhanced mobility CsPbI ₃ quantum dot arrays for record-efficiency, high-voltage photovoltaic cells. Science Advances, 2017, 3, eaao4204.	10.3	801
2	Targeted Ligand-Exchange Chemistry on Cesium Lead Halide Perovskite Quantum Dots for High-Efficiency Photovoltaics. Journal of the American Chemical Society, 2018, 140, 10504-10513.	13.7	303
3	CsPbBr₃ Perovskite Quantum Dot Vertical Cavity Lasers with Low Threshold and High Stability. ACS Photonics, 2017, 4, 2281-2289.	6.6	243
4	Influence of Electrode Interfaces on the Stability of Perovskite Solar Cells: Reduced Degradation Using MoO_x/Al for Hole Collection. ACS Energy Letters, 2016, 1, 38-45.	17.4	237
5	Suppressing Efficiency Roll-Off at High Current Densities for Ultra-Bright Green Perovskite Light-Emitting Diodes. ACS Nano, 2020, 14, 6076-6086.	14.6	142
6	Photolithographic Patterning of Perovskite Thin Films for Multicolor Display Applications. Nano Letters, 2020, 20, 3710-3717.	9.1	120
7	Highâ€Performance Nearâ€IR Photodetector Using Lowâ€Bandgap MA_{0.5}FA_{0.5}Pb_{0.5}Sn_{0.5}I₃ Perovskite. Advanced Functional Materials, 2017, 27, 1701053.	14.9	103
8	Gene-Edited Human Kidney Organoids Reveal Mechanisms of Disease in Podocyte Development. Stem Cells, 2017, 35, 2366-2378.	3.2	101
9	Remote switching of cellular activity and cell signaling using light in conjunction with quantum dots. Biomedical Optics Express, 2012, 3, 447.	2.9	68
10	Diffractive catheter for ultrahigh-resolution spectral-domain volumetric OCT imaging. Optics Letters, 2014, 39, 2016.	3.3	52
11	A Highly Sensitive UVâ€“visâ€“NIR Allâ€Inorganic Perovskite Quantum Dot Phototransistor Based on a Layered Heterojunction. Advanced Optical Materials, 2018, 6, 1800324.	7.3	51
12	Nonvolatile Rewritable Photomemory Arrays Based on Reversible Phaseâ€Change Perovskite for Optical Information Storage. Advanced Optical Materials, 2019, 7, 1900558.	7.3	51
13	Subdiffraction Photon Guidance by Quantum-Dot Cascades. Nano Letters, 2006, 6, 2549-2553.	9.1	46
14	Localized surface plasmon assisted microfluidic mixing. Applied Physics Letters, 2008, 92, .	3.3	45
15	Photonic Crystal Optical Tweezers with High Efficiency for Live Biological Samples and Viability Characterization. Scientific Reports, 2016, 6, 19924.	3.3	44
16	Highly stable cesium lead iodide perovskite quantum dot light-emitting diodes. Nanotechnology, 2017, 28, 455201.	2.6	39
17	Trapping and Manipulation of Biological Particles Through a Plasmonic Platform. IEEE Journal of Selected Topics in Quantum Electronics, 2007, 13, 1655-1662.	2.9	37
18	Silicon Quantum Dot Nanoparticles with Antifouling Coatings for Immunostaining on Live Cancer Cells. ACS Applied Materials & Interfaces, 2016, 8, 13714-13723.	8.0	35

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19	Optical tweezers system for live stem cell organization at the single-cell level. Biomedical Optics Express, 2018, 9, 771.	2.9	34
20	High efficiency photodetectors fabricated by electrostatic layer-by-layer self-assembly of CdTe quantum dots. Applied Physics Letters, 2008, 93, .	3.3	32
21	Visible electroluminescence from hybrid colloidal silicon quantum dot-organic light-emitting diodes. Applied Physics Letters, 2011, 98, .	3.3	30
22	Progress of MEMS Scanning Micromirrors for Optical Bio-Imaging. Micromachines, 2015, 6, 1675-1689.	2.9	30
23	Nanogap quantum dot photodetectors with high sensitivity and bandwidth. Applied Physics Letters, 2010, 96, .	3.3	29
24	MEMS scanning micromirror for optical coherence tomography. Biomedical Optics Express, 2015, 6, 211.	2.9	29
25	Dynamic focus-tracking MEMS scanning micromirror with low actuation voltages for endoscopic imaging. Optics Express, 2013, 21, 23934.	3.4	28
26	Patterned Optical Trapping with Two-Dimensional Photonic Crystals. ACS Photonics, 2014, 1, 398-402.	6.6	28
27	Optical manipulation of micron/submicron sized particles and biomolecules through plasmonics. Optics Express, 2008, 16, 13517.	3.4	27
28	Colloidal quantum dot photodetectors enhanced by self-assembled plasmonic nanoparticles. Applied Physics Letters, 2011, 98, 113110.	3.3	26
29	A Flexible Nanocrystal Photovoltaic Ultraviolet Photodetector on a Plant Membrane. Advanced Optical Materials, 2015, 3, 1530-1536.	7.3	25
30	The Path to Enlightenment: Progress and Opportunities in High Efficiency Halide Perovskite Light-Emitting Devices. ACS Photonics, 2021, 8, 386-404.	6.6	25
31	Large dielectrophoresis force and torque induced by localized surface plasmon resonance of Au nanoparticle array. Optics Letters, 2007, 32, 295.	3.3	24
32	Synthesis and Characterization of Anti-EGFR Fluorescent Nanoparticles for Optical Molecular Imaging. Bioconjugate Chemistry, 2013, 24, 167-175.	3.6	22
33	Nanostructure-enhanced laser tweezers for efficient trapping and alignment of particles. Optics Express, 2010, 18, 16005.	3.4	21
34	Nanoscale waveguiding methods. Nanoscale Research Letters, 2007, 2, 219-229.	5.7	19
35	Solution-processed photodetectors from colloidal silicon nano/micro particle composite. Optics Express, 2010, 18, 21622.	3.4	18
36	Brightly photoluminescent phosphor materials based on silicon quantum dots with oxide shell passivation. Optics Express, 2012, 20, A69.	3.4	16

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37	Scalable nano-particle assembly by efficient light-induced concentration and fusion. Optics Express, 2008, 16, 17276.	3.4	14
38	Surface passivation dependent photoluminescence from silicon quantum dot phosphors. Optics Letters, 2012, 37, 4771.	3.3	13
39	Ultrathin (<1â€‰Î¼m) Substrate-Free Flexible Photodetector on Quantum Dot-Nanocellulose Paper. Scientific Reports, 2017, 7, 43898.	3.3	12
40	Effect of emitter orientation on the outcoupling efficiency of perovskite light-emitting diodes. Optics Letters, 2020, 45, 4786.	3.3	12
41	Comparison of cross-talk effects between colloidal quantum dot and conventional waveguides. Optics Letters, 2007, 32, 235.	3.3	11
42	Vacuumâ€Deposited Inorganic Perovskite Memory Arrays with Longâ€Term Ambient Stability. Physica Status Solidi - Rapid Research Letters, 2019, 13, 1900182.	2.4	10
43	Two-dimensional array self-assembled quantum dot sub-diffraction waveguides with low loss and low crosstalk. Nanotechnology, 2008, 19, 295201.	2.6	9
44	Graphene Quantum Dot Vertical Cavity Surface-Emitting Lasers. ACS Photonics, 2019, 6, 2894-2901.	6.6	8
45	Inkjet Printable Flexible Thin-Film NCQD Photodetectors on Unmodified Transparency Films. IEEE Photonics Technology Letters, 2014, 26, 737-740.	2.5	7
46	Subwavelength optical trapping and transporting using a Bloch mode. Optics Letters, 2020, 45, 1886.	3.3	7
47	Variable Wave Plate via Tunable Form-Birefringent Structures. Journal of Microelectromechanical Systems, 2008, 17, 1039-1046.	2.5	6
48	Fluorescent porous silicon biological probes with high quantum efficiency and stability. Optics Express, 2014, 22, 29996.	3.4	6
49	Optically Accessible MEMS Resonant Mass Sensor for Biological Applications. Journal of Microelectromechanical Systems, 2019, 28, 494-503.	2.5	6
50	Additive and interfacial control for efficient perovskite light-emitting diodes with reduced trap densities. Journal of Semiconductors, 2022, 43, 050502.	3.7	5
51	MEMS Resonant Mass Sensor With Integrated Optical Manipulation. IEEE Nanotechnology Magazine, 2018, 17, 714-718.	2.0	4
52	Red-emitting silicon quantum dot phosphors in warm white LEDs with excellent color rendering. Optics Express, 2014, 22, A276-81.	3.4	4
53	Thin film photodiodes fabricated by electrostatic self-assembly of aqueous colloidal quantum dots. Thin Solid Films, 2010, 519, 857-862.	1.8	3
54	Exploring spatial resolution in high-sensitivity nanogap quantum dot photodetectors. Optics Letters, 2012, 37, 3144.	3.3	3

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55	Nano-scale Nanocrystal Quantum Dot Photodetectors. , 2007, , .		2
56	Trapping and Rotation of Nanowires Assisted by Surface Plasmons. IEEE Journal of Selected Topics in Quantum Electronics, 2009, 15, 1515-1520.	2.9	2
57	MEMS resonant mass sensor with enabled optical trapping. , 2017, , .		2
58	Enhanced Optical Trapping through Localized Surface Plasmon Resonance of Au Nanoparticle Array. , 2007, , .		1
59	Flexible thin-film nanocrystal quantum dot photodetectors on unmodified transparency films. , 2012, , .		1
60	Nanophotonic waveguides by self-assembly of multiple-type quantum dots. , 2006, , .		0
61	Nanocrystal Quantum Dot Waveguides and Photodetectors. , 2007, , .		0
62	Enhanced Optical Manipulation through Plasmonics. Conference Proceedings - Lasers and Electro-Optics Society Annual Meeting-LEOS, 2007, , .	0.0	0
63	A Nano-scale Nanocrystal Photodetector with High Sensitivity. , 2007, , .		0
64	Plasmonic tweezers for opto fluidics. , 2008, , .		0
65	Micro-concentrator for vanadium nanorods by efficient light-induced convective flow. , 2008, , .		0
66	Quantum dot photodiodes fabricated by electrostatic layer-by-layer self-assembly. , 2009, , .		0
67	Remote switching of cellular activity using light through quantum dots. , 2010, , .		0
68	Solution-processed photodetectors using colloidal germanium nanoparticles. , 2012, , .		0
69	Non-toxic, colloidal ZnS-AgInS<inf>2</inf> nanoparticles for organic-inorganic hybrid photovoltaics. , 2014, , .		0
70	Optical modulation and manipulation of neurons and cells with high efficiency through quantum dots and photonic crystals. , 2015, , .		0
71	Detectors: A Flexible Nanocrystal Photovoltaic Ultraviolet Photodetector on a Plant Membrane (Advanced Optical Materials 11/2015). Advanced Optical Materials, 2015, 3, 1480-1480.	7.3	0
72	Solution-processed Perovskite Optoelectronics. , 2018, , .		0

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73	Ultrathin Flexible Devices Enabled by Solution-Processed Quantum Dots. , 2018, , .		0
74	Towards Perovskite LED Displays. , 2020, , .		0
75	New Opto-Plasmonic Tweezers for Manipulation and Rotation of Biological Cells - Design and Fabrication. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2006, , .	0.5	0