

# Chun-Ho Lin

## List of Publications by Year in descending order

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Version: 2024-02-01

55  
papers

3,287  
citations

126858

33  
h-index

175177

52  
g-index

58  
all docs

58  
docs citations

58  
times ranked

4119  
citing authors

#	ARTICLE	IF	CITATIONS
1	Micro-light-emitting diodes with quantum dots in display technology. <i>Light: Science and Applications</i> , 2020, 9, 83.	7.7	394
2	Flexible and efficient perovskite quantum dot solar cells via hybrid interfacial architecture. <i>Nature Communications</i> , 2021, 12, 466.	5.8	176
3	MXene-Contacted Silicon Solar Cells with 11.5% Efficiency. <i>Advanced Energy Materials</i> , 2019, 9, 1900180.	10.2	161
4	Halide Perovskites: A New Era of Solution-Processed Electronics. <i>Advanced Materials</i> , 2021, 33, e2005000.	11.1	138
5	Extremely reduced dielectric confinement in two-dimensional hybrid perovskites with large polar organics. <i>Communications Physics</i> , 2018, 1, .	2.0	135
6	Recent Progress in Short- to Long-Wave Infrared Photodetection Using 2D Materials and Heterostructures. <i>Advanced Optical Materials</i> , 2021, 9, 2001708.	3.6	118
7	High- $\kappa$ perovskite membranes as insulators for two-dimensional transistors. <i>Nature</i> , 2022, 605, 262-267.	13.7	109
8	Hybrid Organic-Inorganic Materials and Composites for Photoelectrochemical Water Splitting. <i>ACS Energy Letters</i> , 2020, 5, 1487-1497.	8.8	104
9	Highly Deformable Origami Paper Photodetector Arrays. <i>ACS Nano</i> , 2017, 11, 10230-10235.	7.3	94
10	Orthogonal Lithography for Halide Perovskite Optoelectronic Nanodevices. <i>ACS Nano</i> , 2019, 13, 1168-1176.	7.3	90
11	Giant Optical Anisotropy of Perovskite Nanowire Array Films. <i>Advanced Functional Materials</i> , 2020, 30, 1909275.	7.8	89
12	Photostriction of $\text{CH}_3\text{NH}_3\text{PbBr}_3$ Perovskite Crystals. <i>Advanced Materials</i> , 2017, 29, 1701789.	11.1	86
13	Nonlinear Absorption Applications of $\text{CH}_3\text{NH}_3\text{PbBr}_3$ Perovskite Crystals. <i>Advanced Functional Materials</i> , 2018, 28, 1707175.	7.8	84
14	Low-Dimensional Lead-Free Inorganic Perovskites for Resistive Switching with Ultralow Bias. <i>Advanced Functional Materials</i> , 2020, 30, 2002110.	7.8	78
15	Quantum Dots for Photovoltaics: A Tale of Two Materials. <i>Advanced Energy Materials</i> , 2021, 11, 2100354.	10.2	77
16	Optoelectronic Ferroelectric Domain-Wall Memories Made from a Single Van Der Waals Ferroelectric. <i>Advanced Functional Materials</i> , 2020, 30, 2004206.	7.8	67
17	A flexible solar-blind 2D boron nitride nanopaper-based photodetector with high thermal resistance. <i>Npj 2D Materials and Applications</i> , 2018, 2, .	3.9	64
18	Enhancing Resistive Switching Performance and Ambient Stability of Hybrid Perovskite Single Crystals via Embedding Colloidal Quantum Dots. <i>Advanced Functional Materials</i> , 2020, 30, 2002948.	7.8	59

#	ARTICLE	IF	CITATIONS
19	Highly Efficient and Stable White Light-Emitting Diodes Using Perovskite Quantum Dot Paper. <i>Advanced Science</i> , 2019, 6, 1902230.	5.6	56
20	Fast-Response, Highly Air-Stable, and Water-Resistant Organic Photodetectors Based on a Single-Crystal Pt Complex. <i>Advanced Materials</i> , 2020, 32, e1904634.	11.1	56
21	Organic intercalation engineering of quasi-2D Dionâ€“Jacobson $\text{A}^+\text{-CsPb}_3$ perovskites. <i>Materials Horizons</i> , 2020, 7, 1042-1050.	6.4	55
22	Artificial Tactile Perceptual Neuron with Nociceptive and Pressure Decoding Abilities. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 26258-26266.	4.0	55
23	Electrode Engineering in Halide Perovskite Electronics: Plenty of Room at the Interfaces. <i>Advanced Materials</i> , 2022, 34, e2108616.	11.1	55
24	Understanding the Role of Vanadium Vacancies in $\text{BiVO}_4$ for Efficient Photoelectrochemical Water Oxidation. <i>Chemistry of Materials</i> , 2021, 33, 3553-3565.	3.2	54
25	Designed growth and patterning of perovskite nanowires for lasing and wide color gamut phosphors with long-term stability. <i>Nano Energy</i> , 2020, 73, 104801.	8.2	53
26	A monolithic artificial iconic memory based on highly stable perovskite-metal multilayers. <i>Applied Physics Reviews</i> , 2020, 7, .	5.5	46
27	Spontaneous solar water splitting with decoupling of light absorption and electrocatalysis using silicon back-buried junction. <i>Nature Communications</i> , 2020, 11, 3930.	5.8	45
28	Phase segregation in inorganic mixed-halide perovskites: from phenomena to mechanisms. <i>Photonics Research</i> , 2020, 8, A56.	3.4	45
29	Ultrathin Perovskite Monocrystals Boost the Solar Cell Performance. <i>Advanced Energy Materials</i> , 2020, 10, 2000453.	10.2	42
30	P-type Charge Transport and Selective Gas Sensing of All-Inorganic Perovskite Nanocrystals. , 2020, 2, 1368-1374.		40
31	Optimizing Surface Chemistry of PbS Colloidal Quantum Dot for Highly Efficient and Stable Solar Cells via Chemical Binding. <i>Advanced Science</i> , 2021, 8, 2003138.	5.6	40
32	One-Dimensional Molecular Metal Halide Materials: Structures, Properties, and Applications. <i>Small Structures</i> , 2021, 2, 2000062.	6.9	40
33	Self-powered nanodevices for fast UV detection and energy harvesting using core-shell nanowire geometry. <i>Nano Energy</i> , 2018, 51, 294-299.	8.2	39
34	Improved performance and stability of photoelectrochemical water-splitting Si system using a bifacial design to decouple light harvesting and electrocatalysis. <i>Nano Energy</i> , 2020, 70, 104478.	8.2	37
35	Quantum Dot Passivation of Halide Perovskite Films with Reduced Defects, Suppressed Phase Segregation, and Enhanced Stability. <i>Advanced Science</i> , 2022, 9, e2102258.	5.6	35
36	Highly UV Resistant Inch-Scale Hybrid Perovskite Quantum Dot Papers. <i>Advanced Science</i> , 2020, 7, 1902439.	5.6	33

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37	Linking Phase Segregation and Photovoltaic Performance of Mixed-Halide Perovskite Films through Grain Size Engineering. ACS Energy Letters, 0, , 1649-1658.	8.8	33
38	A flexible capacitive photoreceptor for the biomimetic retina. Light: Science and Applications, 2022, 11, 3.	7.7	33
39	CsPbBr <sub>3</sub> perovskite quantum-dot paper exhibiting a highest 3â€‰%â€‰dB bandwidth and realizing a flexible white-light system for visible-light communication. Photonics Research, 2021, 9, 2341.	3.4	30
40	A Solutionâ€‰Processed Allâ€‰Perovskite Memory with Dualâ€‰Band Light Response and Triâ€‰Mode Operation. Advanced Functional Materials, 2022, 32, 2110975.	7.8	30
41	Singleâ€‰Crystal Hybrid Perovskite Platelets on Graphene: A Mixedâ€‰Dimensional Van Der Waals Heterostructure with Strong Interface Coupling. Advanced Functional Materials, 2020, 30, 1909672.	7.8	28
42	Metal contact and carrier transport in single crystalline CH <sub>3</sub> NH <sub>3</sub> PbBr <sub>3</sub> perovskite. Nano Energy, 2018, 53, 817-827.	8.2	26
43	Enhancing the Efficiency and Stability of PbS Quantum Dot Solar Cells through Engineering an Ultrathin NiO Nanocrystalline Interlayer. ACS Applied Materials & Interfaces, 2020, 12, 46239-46246.	4.0	24
44	An efficient and stable solar flow battery enabled by a single-junction GaAs photoelectrode. Nature Communications, 2021, 12, 156.	5.8	22
45	Tuning Phase Transition and Thermo-chromic Properties of Vanadium Dioxide Thin Films via Cobalt Doping. ACS Applied Materials & Interfaces, 2022, 14, 19736-19746.	4.0	16
46	Microwave Synthesis and Highâ€‰Mobility Charge Transport of Carbonâ€‰Nanotubeâ€‰inâ€‰Perovskite Single Crystals. Advanced Optical Materials, 2020, 8, 2001740.	3.6	15
47	Surface-Controlled Metal Oxide Resistive Memory. IEEE Electron Device Letters, 2015, 36, 1307-1309.	2.2	13
48	Surface effects of electrode-dependent switching behavior of resistive random-access memory. Applied Physics Letters, 2016, 109, .	1.5	13
49	Anomalous Structural Evolution and Glassy Lattice in Mixedâ€‰Halide Hybrid Perovskites. Small, 2022, 18, e2200847.	5.2	13
50	Multi-functional multi-gate one-transistor process-in-memory electronics with foundry processing and footprint reduction. Communications Materials, 2022, 3, .	2.9	10
51	Optimization of the Selenization Pressure Enabling Efficient Cu <sub>2</sub> ZnSn(S,Se) <sub>4</sub> Solar Cells. Solar Rrl, 2022, 6, .	3.1	8
52	Solar Cells: MXeneâ€‰Contacted Silicon Solar Cells with 11.5% Efficiency (Adv. Energy Mater. 22/2019). Advanced Energy Materials, 2019, 9, 1970083.	10.2	7
53	Perovskite Quantum Dot Solar Cells Fabricated from Recycled Lead-Acid Battery Waste. , 2022, 4, 120-127.		7
54	Giant Piezoresistance in B-Doped SiC Nanobelts with a Gauge Factor of ~1800. ACS Applied Materials & Interfaces, 2020, 12, 47848-47853.	4.0	6

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55	Perovskite Monocrystals: Ultrathin Perovskite Monocrystals Boost the Solar Cell Performance (Adv.) Tj ETQq1 1 0.784314 rgBT /Overl	10.2	2