

Chun-Ho Lin

List of Publications by Citations

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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.

53
papers

1,792
citations

25
h-index

41
g-index

58
ext. papers

2,578
ext. citations

15
avg, IF

5.19
L-index

| # | Paper | IF | Citations |
|----|--|-------|-----------|
| 53 | Micro-light-emitting diodes with quantum dots in display technology. <i>Light: Science and Applications</i> , 2020 , 9, 83 | 16.7 | 181 |
| 52 | MXene-Contacted Silicon Solar Cells with 11.5% Efficiency. <i>Advanced Energy Materials</i> , 2019 , 9, 1900180 | 21.8 | 117 |
| 51 | Extremely reduced dielectric confinement in two-dimensional hybrid perovskites with large polar organics. <i>Communications Physics</i> , 2018 , 1, | 5.4 | 84 |
| 50 | Orthogonal Lithography for Halide Perovskite Optoelectronic Nanodevices. <i>ACS Nano</i> , 2019 , 13, 1168-1176 | 17.67 | 74 |
| 49 | Flexible and efficient perovskite quantum dot solar cells via hybrid interfacial architecture. <i>Nature Communications</i> , 2021 , 12, 466 | 17.4 | 73 |
| 48 | Highly Deformable Origami Paper Photodetector Arrays. <i>ACS Nano</i> , 2017 , 11, 10230-10235 | 16.7 | 65 |
| 47 | Giant Optical Anisotropy of Perovskite Nanowire Array Films. <i>Advanced Functional Materials</i> , 2020 , 30, 1909275 | 15.6 | 64 |
| 46 | Nonlinear Absorption Applications of CH ₃ NH ₃ PbBr ₃ Perovskite Crystals. <i>Advanced Functional Materials</i> , 2018 , 28, 1707175 | 15.6 | 63 |
| 45 | Photostriction of CH NH PbBr Perovskite Crystals. <i>Advanced Materials</i> , 2017 , 29, 1701789 | 24 | 59 |
| 44 | Recent Progress in Short- to Long-Wave Infrared Photodetection Using 2D Materials and Heterostructures. <i>Advanced Optical Materials</i> , 2021 , 9, 2001708 | 8.1 | 59 |
| 43 | Hybrid Organic/Inorganic Materials and Composites for Photoelectrochemical Water Splitting. <i>ACS Energy Letters</i> , 2020 , 5, 1487-1497 | 20.1 | 58 |
| 42 | Halide Perovskites: A New Era of Solution-Processed Electronics. <i>Advanced Materials</i> , 2021 , 33, e2005000 | 24 | 48 |
| 41 | A flexible solar-blind 2D boron nitride nanopaper-based photodetector with high thermal resistance. <i>Npj 2D Materials and Applications</i> , 2018 , 2, | 8.8 | 46 |
| 40 | Fast-Response, Highly Air-Stable, and Water-Resistant Organic Photodetectors Based on a Single-Crystal Pt Complex. <i>Advanced Materials</i> , 2020 , 32, e1904634 | 24 | 41 |
| 39 | Low-Dimensional Lead-Free Inorganic Perovskites for Resistive Switching with Ultralow Bias. <i>Advanced Functional Materials</i> , 2020 , 30, 2002110 | 15.6 | 40 |
| 38 | 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 | 17.1 | 39 |
| 37 | Highly Efficient and Stable White Light-Emitting Diodes Using Perovskite Quantum Dot Paper. <i>Advanced Science</i> , 2019 , 6, 1902230 | 13.6 | 37 |

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|----|---|------|----|
| 36 | 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 | 15.6 | 34 |
| 35 | Organic intercalation engineering of quasi-2D Dion-Jacobson CsPbI_3 perovskites. <i>Materials Horizons</i> , 2020 , 7, 1042-1050 | 14.4 | 33 |
| 34 | Artificial Tactile Perceptual Neuron with Nociceptive and Pressure Decoding Abilities. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 26258-26266 | 9.5 | 30 |
| 33 | A monolithic artificial iconic memory based on highly stable perovskite-metal multilayers. <i>Applied Physics Reviews</i> , 2020 , 7, 031401 | 17.3 | 30 |
| 32 | Self-powered nanodevices for fast UV detection and energy harvesting using core-shell nanowire geometry. <i>Nano Energy</i> , 2018 , 51, 294-299 | 17.1 | 30 |
| 31 | 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 | 17.1 | 29 |
| 30 | Optoelectronic Ferroelectric Domain-Wall Memories Made from a Single Van Der Waals Ferroelectric. <i>Advanced Functional Materials</i> , 2020 , 30, 2004206 | 15.6 | 26 |
| 29 | Quantum Dots for Photovoltaics: A Tale of Two Materials. <i>Advanced Energy Materials</i> , 2021 , 11, 2100354 | 21.8 | 25 |
| 28 | Spontaneous solar water splitting with decoupling of light absorption and electrocatalysis using silicon back-buried junction. <i>Nature Communications</i> , 2020 , 11, 3930 | 17.4 | 24 |
| 27 | Single-Crystal Hybrid Perovskite Platelets on Graphene: A Mixed-Dimensional Van Der Waals Heterostructure with Strong Interface Coupling. <i>Advanced Functional Materials</i> , 2020 , 30, 1909672 | 15.6 | 22 |
| 26 | P-type Charge Transport and Selective Gas Sensing of All-Inorganic Perovskite Nanocrystals 2020 , 2, 1368-1374 | | 22 |
| 25 | Metal contact and carrier transport in single crystalline $\text{CH}_3\text{NH}_3\text{PbBr}_3$ perovskite. <i>Nano Energy</i> , 2018 , 53, 817-827 | 17.1 | 21 |
| 24 | Ultrathin Perovskite Monocrystals Boost the Solar Cell Performance. <i>Advanced Energy Materials</i> , 2020 , 10, 2000453 | 21.8 | 20 |
| 23 | Highly UV Resistant Inch-Scale Hybrid Perovskite Quantum Dot Papers. <i>Advanced Science</i> , 2020 , 7, 1902439 | 13.6 | 19 |
| 22 | Understanding the Role of Vanadium Vacancies in BiVO_4 for Efficient Photoelectrochemical Water Oxidation. <i>Chemistry of Materials</i> , 2021 , 33, 3553-3565 | 9.6 | 18 |
| 21 | One-Dimensional Molecular Metal Halide Materials: Structures, Properties, and Applications. <i>Small Structures</i> , 2021 , 2, 2000062 | 8.7 | 18 |
| 20 | Phase segregation in inorganic mixed-halide perovskites: from phenomena to mechanisms. <i>Photonics Research</i> , 2020 , 8, A56 | 6 | 17 |
| 19 | 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 | 13.6 | 16 |

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|----|--|-------|----|
| 18 | High- Γ Perovskite membranes as insulators for two-dimensional transistors.. <i>Nature</i> , 2022 , 605, 262-267 | 50.4 | 16 |
| 17 | Linking Phase Segregation and Photovoltaic Performance of Mixed-Halide Perovskite Films through Grain Size Engineering. <i>ACS Energy Letters</i> , 1649-1658 | 20.1 | 15 |
| 16 | Electrode Engineering in Halide Perovskite Electronics: Plenty of Room at the Interfaces.. <i>Advanced Materials</i> , 2022 , e2108616 | 24 | 12 |
| 15 | Enhancing the Efficiency and Stability of PbS Quantum Dot Solar Cells through Engineering an Ultrathin NiO Nanocrystalline Interlayer. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 46239-46246 | 9.5 | 12 |
| 14 | Surface effects of electrode-dependent switching behavior of resistive random-access memory. <i>Applied Physics Letters</i> , 2016 , 109, 131603 | 3.4 | 11 |
| 13 | Surface-Controlled Metal Oxide Resistive Memory. <i>IEEE Electron Device Letters</i> , 2015 , 36, 1307-1309 | 4.4 | 9 |
| 12 | Microwave Synthesis and High-Mobility Charge Transport of Carbon-Nanotube-in-Perovskite Single Crystals. <i>Advanced Optical Materials</i> , 2020 , 8, 2001740 | 8.1 | 9 |
| 11 | A flexible capacitive photoreceptor for the biomimetic retina.. <i>Light: Science and Applications</i> , 2022 , 11, 3 | 16.7 | 8 |
| 10 | Quantum Dot Passivation of Halide Perovskite Films with Reduced Defects, Suppressed Phase Segregation, and Enhanced Stability. <i>Advanced Science</i> , 2021 , e2102258 | 13.6 | 8 |
| 9 | A Solution-Processed All-Perovskite Memory with Dual-Band Light Response and Tri-Mode Operation. <i>Advanced Functional Materials</i> , 2110975 | 15.6 | 5 |
| 8 | An efficient and stable solar flow battery enabled by a single-junction GaAs photoelectrode. <i>Nature Communications</i> , 2021 , 12, 156 | 17.4 | 5 |
| 7 | CsPbBr ₃ perovskite quantum-dot paper exhibiting highest 3-dB bandwidth and realizing flexible white-light system for visible-light communication. <i>Photonics Research</i> , | 6 | 5 |
| 6 | Solar Cells: MXene-Contacted Silicon Solar Cells with 11.5% Efficiency (Adv. Energy Mater. 22/2019). <i>Advanced Energy Materials</i> , 2019 , 9, 1970083 | 21.8 | 3 |
| 5 | Giant Piezoresistance in B-Doped SiC Nanobelts with a Gauge Factor of -1800. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 47848-47853 | 9.5 | 3 |
| 4 | Optimization of the Selenization Pressure Enables Efficient Cu ₂ ZnSn(S,Se) Solar Cells. <i>Solar Rrl</i> , | 7.1 | 2 |
| 3 | Perovskite Quantum Dot Solar Cells Fabricated from Recycled Lead-Acid Battery Waste 2022 , 4, 120-127 | | 2 |
| 2 | Perovskite Monocrystals: Ultrathin Perovskite Monocrystals Boost the Solar Cell Performance (Adv. Energy Mater. 34/2020). <i>Advanced Energy Materials</i> , 2020 , 10, 2070144 | 21.8 | 1 |
| 1 | Anomalous Structural Evolution and Glassy Lattice in Mixed-Halide Hybrid Perovskites.. <i>Small</i> , 2022 , e2200847 | 10.47 | 1 |

