

## 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.

44 papers	2,028 citations	21 h-index	44 g-index
44 ext. papers	2,827 ext. citations	14.3 avg, IF	5.04 L-index

#	Paper	IF	Citations
44	All-inorganic perovskite nanocrystal scintillators. <i>Nature</i> , <b>2018</b> , 561, 88-93	50.4	773
43	Light-Responsive Ion-Redistribution-Induced Resistive Switching in Hybrid Perovskite Schottky Junctions. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1704665	15.6	126
42	Metal Oxides as Efficient Charge Transporters in Perovskite Solar Cells. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1602803	21.8	115
41	Enhancing the Performance of Quantum Dot Light-Emitting Diodes Using Room-Temperature-Processed Ga-Doped ZnO Nanoparticles as the Electron Transport Layer. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 15605-15614	9.5	76
40	Flexible and efficient perovskite quantum dot solar cells via hybrid interfacial architecture. <i>Nature Communications</i> , <b>2021</b> , 12, 466	17.4	73
39	Giant Optical Anisotropy of Perovskite Nanowire Array Films. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 1909275	15.6	64
38	Recent Progress in Short- to Long-Wave Infrared Photodetection Using 2D Materials and Heterostructures. <i>Advanced Optical Materials</i> , <b>2021</b> , 9, 2001708	8.1	59
37	Hybrid Organic-Inorganic Materials and Composites for Photoelectrochemical Water Splitting. <i>ACS Energy Letters</i> , <b>2020</b> , 5, 1487-1497	20.1	58
36	Solution-processed resistive switching memory devices based on hybrid organic-inorganic materials and composites. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 23837-23846	3.6	51
35	Halide Perovskites: A New Era of Solution-Processed Electronics. <i>Advanced Materials</i> , <b>2021</b> , 33, e2005000	24	48
34	Low-Dimensional Lead-Free Inorganic Perovskites for Resistive Switching with Ultralow Bias. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2002110	15.6	40
33	Advances on Emerging Materials for Flexible Supercapacitors: Current Trends and Beyond. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2002993	15.6	39
32	Designed growth and patterning of perovskite nanowires for lasing and wide color gamut phosphors with long-term stability. <i>Nano Energy</i> , <b>2020</b> , 73, 104801	17.1	39
31	Nonvolatile Multistates Memories for High-Density Data Storage. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 42449-42471	9.5	36
30	Enhancing Resistive Switching Performance and Ambient Stability of Hybrid Perovskite Single Crystals via Embedding Colloidal Quantum Dots. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2002948	15.6	34
29	Synergistic effect of electron transport layer and colloidal quantum dot solid enable PbSe quantum dot solar cell achieving over 10 % efficiency. <i>Nano Energy</i> , <b>2019</b> , 64, 103922	17.1	34
28	P-Type SnO Thin Film Phototransistor with Perovskite-Mediated Photogating. <i>Advanced Electronic Materials</i> , <b>2019</b> , 5, 1800538	6.4	34

27	A monolithic artificial iconic memory based on highly stable perovskite-metal multilayers. <i>Applied Physics Reviews</i> , <b>2020</b> , 7, 031401	17.3	30
26	Morphology-Tailored Halide Perovskite Platelets and Wires: From Synthesis, Properties to Optoelectronic Devices. <i>Advanced Optical Materials</i> , <b>2018</b> , 6, 1800413	8.1	26
25	Quantum Dots for Photovoltaics: A Tale of Two Materials. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2100354	21.8	25
24	P-type Charge Transport and Selective Gas Sensing of All-Inorganic Perovskite Nanocrystals <b>2020</b> , 2, 1368-1374		22
23	One-Step Vapor-Phase Synthesis and Quantum-Confined Exciton in Single-Crystal Platelets of Hybrid Halide Perovskites. <i>Journal of Physical Chemistry Letters</i> , <b>2019</b> , 10, 2363-2371	6.4	20
22	Highly UV Resistant Inch-Scale Hybrid Perovskite Quantum Dot Papers. <i>Advanced Science</i> , <b>2020</b> , 7, 1902439	43.6	19
21	Phase segregation in inorganic mixed-halide perovskites: from phenomena to mechanisms. <i>Photonics Research</i> , <b>2020</b> , 8, A56	6	17
20	Optimizing Surface Chemistry of PbS Colloidal Quantum Dot for Highly Efficient and Stable Solar Cells via Chemical Binding. <i>Advanced Science</i> , <b>2021</b> , 8, 2003138	13.6	16
19	High- $\kappa$ Perovskite membranes as insulators for two-dimensional transistors.. <i>Nature</i> , <b>2022</b> , 605, 262-267	50.4	16
18	Illumination-Induced Phase Segregation and Suppressed Solubility Limit in Br-Rich Mixed-Halide Inorganic Perovskites. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 38376-38385	9.5	15
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> , <b>2022</b> , 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 &amp; Interfaces</i> , <b>2020</b> , 12, 46239-46246	9.5	12
14	All-Solution-Processed Quantum Dot Electrical Double-Layer Transistors Enhanced by Surface Charges of TiCT MXene Contacts. <i>ACS Nano</i> , <b>2021</b> , 15, 5221-5229	16.7	12
13	Facile Patterning of Silver Nanowires with Controlled Polarities via Inkjet-Assisted Manipulation of Interface Adhesion. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 34086-34094	9.5	11
12	Bismuth telluride topological insulator synthesized using liquid metal alloys: Test of NO <sub>2</sub> selective sensing. <i>Applied Materials Today</i> , <b>2021</b> , 22, 100954	6.6	10
11	Quantum Dot Passivation of Halide Perovskite Films with Reduced Defects, Suppressed Phase Segregation, and Enhanced Stability. <i>Advanced Science</i> , <b>2021</b> , e2102258	13.6	8
10	Light-Enhanced Spin Diffusion in Hybrid Perovskite Thin Films and Single Crystals. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 3205-3213	9.5	8

- 9 Quantum-Dot Tandem Solar Cells Based on a Solution-Processed Nanoparticle Intermediate Layer. *ACS Applied Materials & Interfaces*, **2020**, 12, 2313-2318 9.5 8
- 8 Giant Electric Bias-Induced Tunability of Photoluminescence and Photoresistance in Hybrid Perovskite Films on Ferroelectric Substrates. *Advanced Optical Materials*, **2019**, 7, 1901092 8.1 6
- 7 Ferroelectric Polarization Rotation in Order-Disorder-Type LiNbO Thin Films. *ACS Applied Materials & Interfaces*, **2018**, 10, 41471-41478 9.5 6
- 6 A Solution-Processed All-Perovskite Memory with Dual-Band Light Response and Tri-Mode Operation. *Advanced Functional Materials*, 2110975 15.6 5
- 5 Confinement-Induced Giant Spin-Orbit-Coupled Magnetic Moment of Co Nanoclusters in TiO Films. *ACS Applied Materials & Interfaces*, **2019**, 11, 43781-43788 9.5 3
- 4 Emerging Transistor Applications Enabled by Halide Perovskites. *Accounts of Materials Research*, 7.5 3
- 3 Perovskite Quantum Dot Solar Cells Fabricated from Recycled Lead-Acid Battery Waste **2022**, 4, 120-127 2
- 2 Metal nitride-based nanostructures for electrochemical and photocatalytic hydrogen production.. *Science and Technology of Advanced Materials*, **2022**, 23, 76-119 7.1 1
- 1 Anomalous Structural Evolution and Glassy Lattice in Mixed-Halide Hybrid Perovskites.. *Small*, **2022**, e2200847 10.847 1