

Xinwei Guan

List of Publications by Year in Descending Order

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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	Metal nitride-based nanostructures for electrochemical and photocatalytic hydrogen production.. <i>Science and Technology of Advanced Materials</i> , 2022 , 23, 76-119	7.1	1
43	Electrode Engineering in Halide Perovskite Electronics: Plenty of Room at the Interfaces.. <i>Advanced Materials</i> , 2022 , e2108616	24	12
42	Perovskite Quantum Dot Solar Cells Fabricated from Recycled Lead-Acid Battery Waste 2022 , 4, 120-127		2
41	Anomalous Structural Evolution and Glassy Lattice in Mixed-Halide Hybrid Perovskites.. <i>Small</i> , 2022 , e2200847	10.847	1
40	High- κ perovskite membranes as insulators for two-dimensional transistors.. <i>Nature</i> , 2022 , 605, 262-267	50.4	16
39	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
38	Bismuth telluride topological insulator synthesized using liquid metal alloys: Test of NO ₂ selective sensing. <i>Applied Materials Today</i> , 2021 , 22, 100954	6.6	10
37	Quantum Dots for Photovoltaics: A Tale of Two Materials. <i>Advanced Energy Materials</i> , 2021 , 11, 2100354	21.8	25
36	Halide Perovskites: A New Era of Solution-Processed Electronics. <i>Advanced Materials</i> , 2021 , 33, e2005000	20.4	48
35	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
34	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
33	Flexible and efficient perovskite quantum dot solar cells via hybrid interfacial architecture. <i>Nature Communications</i> , 2021 , 12, 466	17.4	73
32	All-Solution-Processed Quantum Dot Electrical Double-Layer Transistors Enhanced by Surface Charges of TiCT MXene Contacts. <i>ACS Nano</i> , 2021 , 15, 5221-5229	16.7	12
31	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
30	Hybrid Organic-Inorganic Materials and Composites for Photoelectrochemical Water Splitting. <i>ACS Energy Letters</i> , 2020 , 5, 1487-1497	20.1	58
29	Facile Patterning of Silver Nanowires with Controlled Polarities via Inkjet-Assisted Manipulation of Interface Adhesion. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 34086-34094	9.5	11
28	Giant Optical Anisotropy of Perovskite Nanowire Array Films. <i>Advanced Functional Materials</i> , 2020 , 30, 1909275	15.6	64

27	Low-Dimensional Lead-Free Inorganic Perovskites for Resistive Switching with Ultralow Bias. <i>Advanced Functional Materials</i> , 2020 , 30, 2002110	15.6	40
26	Phase segregation in inorganic mixed-halide perovskites: from phenomena to mechanisms. <i>Photonics Research</i> , 2020 , 8, A56	6	17
25	Light-Enhanced Spin Diffusion in Hybrid Perovskite Thin Films and Single Crystals. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 3205-3213	9.5	8
24	Quantum-Dot Tandem Solar Cells Based on a Solution-Processed Nanoparticle Intermediate Layer. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 2313-2318	9.5	8
23	A monolithic artificial iconic memory based on highly stable perovskite-metal multilayers. <i>Applied Physics Reviews</i> , 2020 , 7, 031401	17.3	30
22	Advances on Emerging Materials for Flexible Supercapacitors: Current Trends and Beyond. <i>Advanced Functional Materials</i> , 2020 , 30, 2002993	15.6	39
21	Highly UV Resistant Inch-Scale Hybrid Perovskite Quantum Dot Papers. <i>Advanced Science</i> , 2020 , 7, 19024396	13.6	19
20	Illumination-Induced Phase Segregation and Suppressed Solubility Limit in Br-Rich Mixed-Halide Inorganic Perovskites. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 38376-38385	9.5	15
19	P-type Charge Transport and Selective Gas Sensing of All-Inorganic Perovskite Nanocrystals 2020 , 2, 1368-1374		22
18	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
17	Nonvolatile Multistates Memories for High-Density Data Storage. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 42449-42471	9.5	36
16	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
15	One-Step Vapor-Phase Synthesis and Quantum-Confined Exciton in Single-Crystal Platelets of Hybrid Halide Perovskites. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 2363-2371	6.4	20
14	Giant Electric Bias-Induced Tunability of Photoluminescence and Photoresistance in Hybrid Perovskite Films on Ferroelectric Substrates. <i>Advanced Optical Materials</i> , 2019 , 7, 1901092	8.1	6
13	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> , 2019 , 64, 103922	17.1	34
12	Confinement-Induced Giant Spin-Orbit-Coupled Magnetic Moment of Co Nanoclusters in TiO Films. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 43781-43788	9.5	3
11	P-Type SnO Thin Film Phototransistor with Perovskite-Mediated Photogating. <i>Advanced Electronic Materials</i> , 2019 , 5, 1800538	6.4	34
10	All-inorganic perovskite nanocrystal scintillators. <i>Nature</i> , 2018 , 561, 88-93	50.4	773

9	Solution-processed resistive switching memory devices based on hybrid organic-inorganic materials and composites. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 23837-23846	3.6	51
8	Light-Responsive Ion-Redistribution-Induced Resistive Switching in Hybrid Perovskite Schottky Junctions. <i>Advanced Functional Materials</i> , 2018 , 28, 1704665	15.6	126
7	Ferroelectric Polarization Rotation in Order-Disorder-Type LiNbO Thin Films. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 41471-41478	9.5	6
6	Morphology-Tailored Halide Perovskite Platelets and Wires: From Synthesis, Properties to Optoelectronic Devices. <i>Advanced Optical Materials</i> , 2018 , 6, 1800413	8.1	26
5	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 & Interfaces</i> , 2017 , 9, 15605-15614	9.5	76
4	Metal Oxides as Efficient Charge Transporters in Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2017 , 7, 1602803	21.8	115
3	Emerging Transistor Applications Enabled by Halide Perovskites. <i>Accounts of Materials Research</i> ,	7.5	3
2	A Solution-Processed All-Perovskite Memory with Dual-Band Light Response and Tri-Mode Operation. <i>Advanced Functional Materials</i> , 2110975	15.6	5
1	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