

Xinwei Guan

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2442483/publications.pdf>

Version: 2024-02-01

44
papers

3,708
citations

201674

27
h-index

276875

41
g-index

44
all docs

44
docs citations

44
times ranked

4863
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantum Dot Passivation of Halide Perovskite Films with Reduced Defects, Suppressed Phase Segregation, and Enhanced Stability. <i>Advanced Science</i> , 2022, 9, e2102258.	11.2	35
2	Emerging Transistor Applications Enabled by Halide Perovskites. <i>Accounts of Materials Research</i> , 2022, 3, 8-20.	11.7	8
3	Electrode Engineering in Halide Perovskite Electronics: Plenty of Room at the Interfaces. <i>Advanced Materials</i> , 2022, 34, e2108616.	21.0	55
4	A Solution-Processed All-Perovskite Memory with Dual-Band Light Response and Tri-Mode Operation. <i>Advanced Functional Materials</i> , 2022, 32, 2110975.	14.9	30
5	Metal nitride-based nanostructures for electrochemical and photocatalytic hydrogen production. <i>Science and Technology of Advanced Materials</i> , 2022, 23, 76-119.	6.1	28
6	Perovskite Quantum Dot Solar Cells Fabricated from Recycled Lead-Acid Battery Waste. , 2022, 4, 120-127.		7
7	Anomalous Structural Evolution and Glassy Lattice in Mixed-Halide Hybrid Perovskites. <i>Small</i> , 2022, 18, e2200847.	10.0	13
8	High- κ perovskite membranes as insulators for two-dimensional transistors. <i>Nature</i> , 2022, 605, 262-267.	27.8	109
9	Recent Progress in Short-to Long-Wave Infrared Photodetection Using 2D Materials and Heterostructures. <i>Advanced Optical Materials</i> , 2021, 9, 2001708.	7.3	118
10	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.	11.2	40
11	Flexible and efficient perovskite quantum dot solar cells via hybrid interfacial architecture. <i>Nature Communications</i> , 2021, 12, 466.	12.8	176
12	All-Solution-Processed Quantum Dot Electrical Double-Layer Transistors Enhanced by Surface Charges of $\text{Ti}_3\text{C}_2\text{T}_x$ MXene Contacts. <i>ACS Nano</i> , 2021, 15, 5221-5229.	14.6	30
13	Bismuth telluride topological insulator synthesized using liquid metal alloys: Test of NO ₂ selective sensing. <i>Applied Materials Today</i> , 2021, 22, 100954.	4.3	18
14	Quantum Dots for Photovoltaics: A Tale of Two Materials. <i>Advanced Energy Materials</i> , 2021, 11, 2100354.	19.5	77
15	Halide Perovskites: A New Era of Solution-Processed Electronics. <i>Advanced Materials</i> , 2021, 33, e2005000.	21.0	138
16	Light-Enhanced Spin Diffusion in Hybrid Perovskite Thin Films and Single Crystals. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 3205-3213.	8.0	17
17	Quantum-Dot Tandem Solar Cells Based on a Solution-Processed Nanoparticle Intermediate Layer. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 2313-2318.	8.0	19
18	A monolithic artificial iconic memory based on highly stable perovskite-metal multilayers. <i>Applied Physics Reviews</i> , 2020, 7, .	11.3	46

#	ARTICLE	IF	CITATIONS
19	Advances on Emerging Materials for Flexible Supercapacitors: Current Trends and Beyond. <i>Advanced Functional Materials</i> , 2020, 30, 2002993.	14.9	92
20	Highly UV Resistant Inchâ€Scale Hybrid Perovskite Quantum Dot Papers. <i>Advanced Science</i> , 2020, 7, 1902439.	11.2	33
21	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.	8.0	27
22	P-type Charge Transport and Selective Gas Sensing of All-Inorganic Perovskite Nanocrystals. , 2020, 2, 1368-1374.		40
23	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.	8.0	24
24	Nonvolatile Multistates Memories for High-Density Data Storage. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 42449-42471.	8.0	101
25	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.	14.9	59
26	Hybrid Organicâ€Inorganic Materials and Composites for Photoelectrochemical Water Splitting. <i>ACS Energy Letters</i> , 2020, 5, 1487-1497.	17.4	104
27	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.	8.0	19
28	Giant Optical Anisotropy of Perovskite Nanowire Array Films. <i>Advanced Functional Materials</i> , 2020, 30, 1909275.	14.9	89
29	Lowâ€Dimensional Leadâ€Free Inorganic Perovskites for Resistive Switching with Ultralow Bias. <i>Advanced Functional Materials</i> , 2020, 30, 2002110.	14.9	78
30	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.	16.0	53
31	Phase segregationâ€ in inorganic mixed-halide perovskites: from phenomena to mechanisms. <i>Photonics Research</i> , 2020, 8, A56.	7.0	45
32	Giant Electric Biasâ€Induced Tunability of Photoluminescence and Photoresistance in Hybrid Perovskite Films on Ferroelectric Substrates. <i>Advanced Optical Materials</i> , 2019, 7, 1901092.	7.3	8
33	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.	16.0	43
34	Confinement-Induced Giant Spinâ€Orbit-Coupled Magnetic Moment of Co Nanoclusters in TiO ₂ Films. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 43781-43788.	8.0	8
35	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.	4.6	25
36	Pâ€Type SnO Thin Film Phototransistor with Perovskiteâ€Mediated Photogating. <i>Advanced Electronic Materials</i> , 2019, 5, 1800538.	5.1	45

#	ARTICLE	IF	CITATIONS
37	Light-Responsive Ion-Redistribution-Induced Resistive Switching in Hybrid Perovskite Schottky Junctions. <i>Advanced Functional Materials</i> , 2018, 28, 1704665.	14.9	169
38	Ferroelectric Polarization Rotation in Order-Disorder-Type LiNbO ₃ Thin Films. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 41471-41478.	8.0	13
39	Morphology-Tailored Halide Perovskite Platelets and Wires: From Synthesis, Properties to Optoelectronic Devices. <i>Advanced Optical Materials</i> , 2018, 6, 1800413.	7.3	34
40	All-inorganic perovskite nanocrystal scintillators. <i>Nature</i> , 2018, 561, 88-93.	27.8	1,274
41	Solution-processed resistive switching memory devices based on hybrid organic-inorganic materials and composites. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 23837-23846.	2.8	68
42	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.	8.0	113
43	Metal Oxides as Efficient Charge Transporters in Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2017, 7, 1602803.	19.5	147
44	Linking Phase Segregation and Photovoltaic Performance of Mixed-Halide Perovskite Films through Grain Size Engineering. <i>ACS Energy Letters</i> , 0, , 1649-1658.	17.4	33