List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	An aqueous zincâ€ion battery working at â^'50°C enabled by lowâ€concentration perchlorateâ€based chaotropic salt electrolyte. EcoMat, 2022, 4, .	6.8	40
2	How Materials and Device Factors Determine the Performance: A Unified Solution for Transistors with Nontrivial Gates and Transistor–Diode Hybrid Integration. Advanced Science, 2022, 9, e2104896.	5.6	12
3	The Limitation of Threshold-Voltage Compensation Range for Internal Compensation Circuit in the AM-MiniLED Pixel Structure. , 2022, , .		0
4	Dual Organic Spacer Cation Quasiâ€2D Sn–Pb Perovskite for Solar Cells and Nearâ€Infrared Photodetectors Application. Advanced Photonics Research, 2022, 3, .	1.7	5
5	Thorough Elimination of Persistent Photoconduction in Amorphous InZnO Thin-Film Transistor via Dual-Gate Pulses. IEEE Electron Device Letters, 2022, 43, 1247-1250.	2.2	4
6	A New Pixel Circuit for Active Matrix Mini&Micro Light Emitting Diodes. , 2022, , .		1
7	Coexistence of Contact Electrification and Dynamic p–n Junction Modulation Effects in Triboelectrification. ACS Applied Materials & Interfaces, 2022, 14, 30410-30419.	4.0	8
8	Pixellated Perovskite Photodiode on IGZO Thin Film Transistor Backplane for Low Dose Indirect X-Ray Detection. IEEE Journal of the Electron Devices Society, 2021, 9, 96-101.	1.2	11
9	A comparison study of MnO ₂ and Mn ₂ O ₃ as zinc-ion battery cathodes: an experimental and computational investigation. RSC Advances, 2021, 11, 14408-14414.	1.7	12
10	Highly conductive locust bean gum bio-electrolyte for superior long-life quasi-solid-state zinc-ion batteries. RSC Advances, 2021, 11, 24862-24871.	1.7	12
11	Visible-light-stimulated synaptic InGaZnO phototransistors enabled by wavelength-tunable perovskite quantum dots. Nanoscale Advances, 2021, 3, 5046-5052.	2.2	13
12	Fine-tuning of side-chain orientations on nonfullerene acceptors enables organic solar cells with 17.7% efficiency. Energy and Environmental Science, 2021, 14, 3469-3479.	15.6	158
13	Flexible indirect x-ray detector enabled by organic photodiode and CsPbBr ₃ perovskite quantum dot scintillator. Flexible and Printed Electronics, 2021, 6, 015008.	1.5	7
14	Effect of Monoethanolamine Stabilizer on the Solution-Processed InGaZnO Thin-film Transistors. , 2021, , .		2
15	Large-area patterning of full-color quantum dot arrays beyond 1000 pixels per inch by selective electrophoretic deposition. Nature Communications, 2021, 12, 4603.	5.8	64
16	Investigation of the S-Shaped Current–Voltage Curve in High Open-Circuit Voltage Ruddlesden–Popper Perovskite Solar Cells. Frontiers in Energy Research, 2021, 9, .	1.2	3
17	A System-Level Approach towards a Hybrid Energy Harvesting Glove. Sensors, 2021, 21, 5349.	2.1	1
18	A Novel Modularization Design Method of PM Biased SCFCL Considering Leakage Flux Effect and Permeance Matrix Modeling. IEEE Transactions on Power Delivery, 2021, 36, 2881-2892.	2.9	4

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19	Flexible and anti-freezing zinc-ion batteries using a guar-gum/sodium-alginate/ethylene-glycol hydrogel electrolyte. Energy Storage Materials, 2021, 41, 599-605.	9.5	124
20	X-ray Sensitive hybrid organic photodetectors with embedded CsPbBr3 perovskite quantum dots. Organic Electronics, 2021, 98, 106306.	1.4	12
21	Hybrid-Material Based Saturated Core FCL in HVDC System: Modeling, Analyzing and Performance Testing. IEEE Transactions on Industrial Electronics, 2021, 68, 11858-11869.	5.2	10
22	A high-performance free-standing Zn anode for flexible zinc-ion batteries. Nanoscale, 2021, 13, 10100-10107.	2.8	30
23	Impact of Diverse Ambient Illuminations on a Flexible Photosensitive Energy Scavenger. , 2021, , .		0
24	Inkjet printed uniform quantum dots as color conversion layers for full-color OLED displays. Nanoscale, 2020, 12, 2103-2110.	2.8	114
25	One-step synthesis of MnO _x /PPy nanocomposite as a high-performance cathode for a rechargeable zinc-ion battery and insight into its energy storage mechanism. Nanoscale, 2020, 12, 4150-4158.	2.8	47
26	Improved current efficiency of quasi-2D multi-cation perovskite light-emitting diodes: the effect of Cs and K. Nanoscale, 2020, 12, 1571-1579.	2.8	19
27	A Novel Six-Leg Three-Phase Fault Current Limiter. IEEE Transactions on Power Delivery, 2020, 35, 1707-1715.	2.9	12
28	Spinâ€Onâ€Patterning of Sn–Pb Perovskite Photodiodes on IGZO Transistor Arrays for Fast Activeâ€Matrix Nearâ€Infrared Imaging. Advanced Materials Technologies, 2020, 5, 1900752.	3.0	21
29	Facile Four-Mask Processes for Organic Thin-Film Transistor Integration Structure With Metal Interconnect. IEEE Electron Device Letters, 2020, 41, 70-72.	2.2	11
30	Deciphering the Role of Chalcogen-Containing Heterocycles in Nonfullerene Acceptors for Organic Solar Cells. ACS Energy Letters, 2020, 5, 3415-3425.	8.8	73
31	Ultrasonic Spray Deposition of a″GZO Thin Film Transistor on Substrate with Hydrophilic Patterns. Digest of Technical Papers SID International Symposium, 2020, 51, 187-189.	0.1	0
32	An Active Matrix Miniâ€LEDs Backlight based on aâ€Si. Digest of Technical Papers SID International Symposium, 2020, 51, 62-64.	0.1	5
33	Controlling Performance of Organic–Inorganic Hybrid Perovskite Triboelectric Nanogenerators via Chemical Composition Modulation and Electric Fieldâ€Induced Ion Migration. Advanced Energy Materials, 2020, 10, 2002470.	10.2	19
34	Photovoltage-Coupled Dual-Gate InGaZnO Thin-Film Transistors Operated at the Subthreshold Region for Low-Power Photodetection. ACS Applied Electronic Materials, 2020, 2, 1745-1751.	2.0	4
35	Polyacrylic acid assisted synthesis of free-standing MnO ₂ /CNTs cathode for Zinc-ion batteries. Nanotechnology, 2020, 31, 375401.	1.3	13
36	Optimization of PMMA:PCBM Interlayer for MAPbI ₃ /IGZO Phototransistor. , 2020, , .		1

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37	A New Compensation Pixel Circuit Based on A-Si TFTs. , 2020, , .		3
38	Inductive Fault Current Limiters in VSC-HVDC Systems: A Review. IEEE Access, 2020, 8, 38185-38197.	2.6	17
39	Lowâ€Dimensional Contact Layers for Enhanced Perovskite Photodiodes. Advanced Functional Materials, 2020, 30, 2001692.	7.8	30
40	Carbon nanohorns/nanotubes: An effective binary conductive additive in the cathode of high energy-density zinc-ion rechargeable batteries. Carbon, 2020, 167, 431-438.	5.4	42
41	Saturatedâ€core fault current limiters for AC power systems: Towards reliable, economical and better performance application. High Voltage, 2020, 5, 416-424.	2.7	15
42	A Novel Multi-Function Saturated-Core Fault Current Limiter. IEEE Transactions on Magnetics, 2019, 55, 1-5.	1.2	9
43	Enhanced UV–visible detection of InGaZnO phototransistors via CsPbBr ₃ quantum dots. Semiconductor Science and Technology, 2019, 34, 125013.	1.0	25
44	Narrow Bandgap Pb–Sn Perovskites/InGaZnO Hybrid Phototransistors for Nearâ€Infrared Detection. Physica Status Solidi (A) Applications and Materials Science, 2019, 216, 1900417.	0.8	13
45	Flexible and stable quasi-solid-state zinc ion battery with conductive guar gum electrolyte. Materials Today Energy, 2019, 14, 100349.	2.5	77
46	Development of a compact high-voltage pulser for hypervelocity microparticles injector. Review of Scientific Instruments, 2019, 90, 083305.	0.6	1
47	Reduced graphene oxide-induced crystallization of CuPc interfacial layer for high performance of perovskite photodetectors. RSC Advances, 2019, 9, 3800-3808.	1.7	14
48	Flexible quasi-solid-state zinc ion batteries enabled by highly conductive carrageenan bio-polymer electrolyte. RSC Advances, 2019, 9, 16313-16319.	1.7	88
49	75â€4: Inkjetâ€Printed Quantum Dot Display with Blue OLEDs for Next Generation Display. Digest of Technical Papers SID International Symposium, 2019, 50, 1075-1078.	0.1	10
50	Enhanced Uniformity and Stability of Pb–Sn Perovskite Solar Cells via Me 4 NBr Passivation. Advanced Materials Interfaces, 2019, 6, 1900413.	1.9	33
51	Nanostructured High-Performance Thin-Film Transistors and Phototransistors Fabricated by a High-Yield and Versatile Near-Field Nanolithography Strategy. ACS Nano, 2019, 13, 6618-6630.	7.3	15
52	Enhanced UV Detection of Perovskite Photodetector Arrays via Inorganic CsPbBr ₃ Quantum Dot Down onversion Layer. Advanced Optical Materials, 2019, 7, 1801812.	3.6	55
53	:Hydrogen Doping Oxide Transistors: Analysis of Ultrahigh Apparent Mobility in Oxide Fieldâ€Effect Transistors (Adv. Sci. 7/2019). Advanced Science, 2019, 6, 1970040.	5.6	6
54	Analysis of Ultrahigh Apparent Mobility in Oxide Fieldâ€Effect Transistors. Advanced Science, 2019, 6, 1801189.	5.6	40

HANG ZHOU

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55	High detectivity ITO/organolead halide perovskite Schottky photodiodes. Semiconductor Science and Technology, 2019, 34, 074004.	1.0	13
56	Flexible, active-matrix flat-panel image sensor for low dose X-ray detection enabled by integration of perovskite photodiode and oxide thin film transistor. , 2019, , .		9
57	Patterning Perovskite Thin Film via CYTOP Assisted Photolithography Process. , 2019, , .		Ο
58	Pâ€1.9: Ordered Crystalline Film Growth of Tipsâ€Pentacene and perovskite by Ultraâ€sonic dispenser and their application as the activeâ€matrix of photodetectors. Digest of Technical Papers SID International Symposium, 2019, 50, 661-661.	0.1	0
59	Ultra-thin atom layer deposited alumina film enables the precise lifetime control of fully biodegradable electronic devices. Nanoscale, 2019, 11, 22369-22377.	2.8	7
60	High Efficiency Fully Inkjet Printed Multilayer OLEDs Using A Printable Organic Electronic Transport Layer. , 2019, , .		3
61	SnO ₂ -rGO nanocomposite as an efficient electron transport layer for stable perovskite solar cells on AZO substrate. Nanotechnology, 2019, 30, 075202.	1.3	17
62	Precursor solution temperature dependence of the optical constants, band gap and Urbach tail in organic–inorganic hybrid halide perovskite films. Journal Physics D: Applied Physics, 2019, 52, 045103.	1.3	8
63	Precise Patterning of Largeâ€Scale TFT Arrays Based on Solutionâ€Processed Oxide Semiconductors: A Comparative Study of Additive and Subtractive Approaches. Advanced Materials Interfaces, 2018, 5, 1700981.	1.9	21
64	Verification Experiment of Simulating the Effect of Quarantine Source on Isolated Switch. , 2018, , .		0
65	Enhanced Detectivity and Suppressed Dark Current of Perovskite–InGaZnO Phototransistor via a PCBM Interlayer. ACS Applied Materials & Interfaces, 2018, 10, 44144-44151.	4.0	50
66	Epsilon-near-zero medium for optical switches in a monolithic waveguide chip at 1.9 μm. Nanophotonics, 2018, 7, 1835-1843.	2.9	33
67	Guided Formation of Large Crystals of Organic and Perovskite Semiconductors by an Ultrasonicated Dispenser and Their Application as the Active Matrix of Photodetectors. ACS Applied Materials & Interfaces, 2018, 10, 39921-39932.	4.0	6
68	Large Area Perovskite Solar Cell via Two-step Ultrasonic Spray Deposition. , 2018, , .		0
69	Atomic-layer-deposited ultra-thin VO _x film as a hole transport layer for perovskite solar cells. Semiconductor Science and Technology, 2018, 33, 115016.	1.0	22
70	Flexible high energy density zinc-ion batteries enabled by binder-free MnO2/reduced graphene oxide electrode. Npj Flexible Electronics, 2018, 2, .	5.1	69
71	Enhancing the Electrical Uniformity and Reliability of the HfO ₂ -Based RRAM Using High-Permittivity Ta ₂ O ₅ Side Wall. IEEE Journal of the Electron Devices Society, 2018, 6, 627-632.	1.2	17
72	Topology and Performance Optimization of a Novel Hybrid Material-Based Direct Current Fault Current Limiter. IEEE Transactions on Magnetics, 2018, 54, 1-5.	1.2	14

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73	Design and fabrication of photo-sensitive thin-film transistors with IGZO and organic photo-absorber. , 2018, , .		2
74	Oxide Semiconductor Phototransistor with Organolead Trihalide Perovskite Light Absorber. Advanced Electronic Materials, 2017, 3, 1600325.	2.6	58
75	CH 3 NH 3 PbI 3â^'x Br x perovskite solar cells via spray assisted two-step deposition: Impact of bromide on stability and cell performance. Materials and Design, 2017, 125, 222-229.	3.3	34
76	Pâ€8: Photocurrent Characteristics of Amorphous MgInO Thin Film Transistors. Digest of Technical Papers SID International Symposium, 2017, 48, 1254-1257.	0.1	1
77	Organolead trihalide perovskite as light absorber for IGZO phototransistor. , 2017, , .		1
78	Effects of deposition methods and processing techniques on band gap, interband electronic transitions, and optical absorption in perovskite CH3NH3PbI3 films. Applied Physics Letters, 2017, 111, .	1.5	10
79	Solutionâ€Processed MoS ₂ /Organolead Trihalide Perovskite Photodetectors. Advanced Materials, 2017, 29, 1603995.	11.1	187
80	The influence of fullerene-based interlayers on CH <inf>3</inf> NH <inf>3</inf> PbI <inf>3</inf> Perovskite Photodetector. , 2017, , .		2
81	Verification Experiment of Simulating the Effect of Quarantine Source on Isolated Switch. , 2017, , .		0
82	Electron-transport layer free perovskite solar cells with anodized ITO electrode. , 2017, , .		0
83	CH3NH3PbI3-xBrx perovskite solar cells via spray assisted two-step deposition: influence of bromide on the device performance. , 2017, , .		0
84	Photoreactive and Metalâ€Platable Copolymer Inks for Highâ€Throughput, Roomâ€Temperature Printing of Flexible Metal Electrodes for Thinâ€Film Electronics. Advanced Materials, 2016, 28, 4926-4934.	11.1	77
85	Enriched semiconducting single wall nanotubes as back contact for CdTe solar cell. , 2016, , .		1
86	The influence of chloride on interdiffusion method for perovskite solar cells. Materials Letters, 2016, 169, 236-240.	1.3	13
87	Enhanced Field Emission from a Carbon Nanotube Array Coated with a Hexagonal Boron Nitride Thin Film. Small, 2015, 11, 3710-3716.	5.2	38
88	Design consideration of uni-traveling carrier photodiode: Influence of doping profile and buffer layer. , 2015, , .		1
89	Simulation of perovskite solar cells with inorganic hole transporting materials. , 2015, , .		10
90	Uniform perovskite photovoltaic thin films via ultrasonic spray assisted deposition method. , 2015, , .		4

Uniform perovskite photovoltaic thin films via ultrasonic spray assisted deposition method. , 2015, , . 90

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91	Periodic Nanopillar N-I-P Amorphous Si Photovoltaic Cells Using Carbon Nanotube Scaffolds. IEEE Nanotechnology Magazine, 2014, 13, 997-1004.	1.1	3
92	Tuning the peak position of subwavelength silica nanosphere broadband antireflection coatings. Nanoscale Research Letters, 2014, 9, 361.	3.1	11
93	Vertically aligned carbon nanotube-based electrodes for hydrogen production by water electrolysis. Journal of Materials Research, 2013, 28, 927-932.	1.2	8
94	High-resolution image sensors get rolled up. Nature Electronics, 0, , .	13.1	0