Cun Yun Xu

List of Publications by Year
in descending order

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39 papers	1,142 citations	394421 19 h-index	395702 33 g-index
39 all docs	39 docs citations	39 times ranked	1115 citing authors

#	Article	IF	Citations
1	Coexistence of Negative Differential Resistance and Resistive Switching Memory at Room Temperature in TiO_x Modulated by Moisture. Advanced Electronic Materials, 2018, 4, 1700567.	5.1	147
2	Negative Photoconductance Effect: An Extension Function of the TiO_xâ€Based Memristor. Advanced Science, 2021, 8, 2003765.	11.2	94
3	High Open-Circuit Voltage of 1.134 V for Inverted Planar Perovskite Solar Cells with Sodium Citrate-Doped PEDOT:PSS as a Hole Transport Layer. ACS Applied Materials & Interfaces, 2019, 11, 22021-22027.	8.0	80
4	Passivating buried interface via self-assembled novel sulfonium salt toward stable and efficient perovskite solar cells. Chemical Engineering Journal, 2022, 431, 133209.	12.7	74
5	Coordinated Optical Matching of a Texture Interface Made from Demixing Blended Polymers for High-Performance Inverted Perovskite Solar Cells. ACS Nano, 2020, 14, 196-203.	14.6	64
6	Resistive switching behaviors and memory logic functions in single MnO_x nanorod modulated by moisture. Chemical Communications, 2019, 55, 9915-9918.	4.1	51
7	Robust perovskite-based triboelectric nanogenerator enhanced by broadband light and interface engineering. Journal of Materials Science, 2019, 54, 9004-9016.	3.7	46
8	Evolution map of the memristor: from pure capacitive state to resistive switching state. Nanoscale, 2019, 11, 17222-17229.	5.6	45
9	Efficient and Stable Planar nâ€iâ€p Perovskite Solar Cells with Negligible Hysteresis through Solutionâ€Processed Cu₂O Nanocubes as a Lowâ€Cost Holeâ€Transport Material. ChemSusChem, 2019, 12, 3808-3816.	6.8	45
10	Photoinduced triboelectric polarity reversal and enhancement of a new metal/semiconductor triboelectric nanogenerator. Nano Energy, 2019, 58, 331-337.	16.0	39
11	Passivation of defects in inverted perovskite solar cells using an imidazolium-based ionic liquid. Sustainable Energy and Fuels, 2020, 4, 3971-3978.	4.9	37
12	Interfacial defect passivation by novel phosphonium salts yields 22% efficiency perovskite solar cells: Experimental and theoretical evidence. EcoMat, 2022, 4, .	11.9	35
13	Electron Transport Materials: Evolution and Case Study for Highâ€Efficiency Perovskite Solar Cells. Solar Rrl, 2020, 4, 2000136.	5.8	32
14	Highly Efficient Snâ€“Pb Perovskite Solar Cell and Highâ€Performance Allâ€Perovskite Fourâ€Terminal Tandem Solar Cell. Solar Rrl, 2020, 4, 1900396.	5.8	30
15	An internally photoemitted hot carrier solar cell based on organic-inorganic perovskite. Nano Energy, 2020, 68, 104383.	16.0	26
16	Simultaneous Passivation of Bulk and Interface Defects with Gradient 2D/3D Heterojunction Engineering for Efficient and Stable Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2022, 14, 21079-21088.	8.0	26
17	Real-Time Acid Rain Sensor Based on a Triboelectric Nanogenerator Made of a PTFEâ€“PDMS Composite Film. ACS Applied Electronic Materials, 2021, 3, 4162-4171.	4.3	22
18	An analogue memristor made of silk fibroin polymer. Journal of Materials Chemistry C, 2021, 9, 14583-14588.	5.5	22

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19	Electrical property modified hole transport layer (PEDOT:PSS) enhance the efficiency of perovskite solar cells: Hybrid co-solvent post-treatment. Organic Electronics, 2020, 78, 105582.	2.6	20
20	Self-woven monolayer polyionic mesh to achieve highly efficient and stable inverted perovskite solar cells. Chemical Engineering Journal, 2022, 428, 132074.	12.7	19
21	The coordination of displacement and conduction currents to boost the instantaneous power output of a water-tube triboelectric nanogenerator. Nano Energy, 2022, 95, 107050.	16.0	19
22	A novel retractable spring-like-electrode triboelectric nanogenerator with highly-effective energy harvesting and conversion for sensing road conditions. RSC Advances, 2017, 7, 50993-51000.	3.6	15
23	Enhancing the open circuit voltage of PEDOT:PSS-PC61BM based inverted planar mixed halide perovskite solar cells from 0.93 to 1.05 V by simply oxidizing PC61BM. Organic Electronics, 2018, 59, 260-265.	2.6	14
24	Hydrazine dihydrochloride as a new additive to promote the performance of tin-based mixed organic cation perovskite solar cells. Sustainable Energy and Fuels, 2021, 5, 2660-2667.	4.9	14
25	Effect of guanidinium chloride in eliminating O₂^{â˜} electron extraction barrier on a SnO₂ surface to enhance the efficiency of perovskite solar cells. RSC Advances, 2020, 10, 19513-19520.	3.6	14
26	Perovskite solar cells fabricated under ambient air at room temperature without any post-treatment. Organic Electronics, 2020, 86, 105918.	2.6	13
27	Elimination of Charge Transport Layers in High-Performance Perovskite Solar Cells by Band Bending. ACS Applied Energy Materials, 2021, 4, 1294-1301.	5.1	13
28	Collaborative strengthening by multi-functional molecule 3-thiophenboric acid for efficient and stable planar perovskite solar cells. Chemical Engineering Journal, 2022, 436, 135134.	12.7	13
29	Selfâ€Formed Multifunctional Grain Boundary Passivation Layer Achieving 22.4% Efficient and Stable Perovskite Solar Cells. Solar Rrl, 2022, 6, .	5.8	13
30	Nitrogen-doped carbon nanotubes encapsulated Bi nanobuds for lithium based high-performance energy storage devices. Journal of Alloys and Compounds, 2021, 856, 158204.	5.5	12
31	Nuclei position-control and crystal growth-guidance on frozen substrates for high-performance perovskite solar cells. Nanoscale, 2019, 11, 12108-12115.	5.6	10
32	Efficient and Stable Perovskite Solar Cells Achieved by Using Bifunctional Interfacial Materials to Modify SnO₂ and MAPbI_{3â€“x}Cl_x Simultaneously. ACS Applied Energy Materials, 2021, 4, 3794-3802.	5.1	10
33	InSe:Ge-doped InSe van der Waals heterostructure to enhance photogenerated carrier separation for self-powered photoelectrochemical-type photodetectors. Nanoscale, 2022, 14, 5412-5424.	5.6	9
34	Interface barrier strategy for perovskite solar cells realized by In-situ synthesized polyionic layer. Chemical Engineering Journal, 2022, 439, 135704.	12.7	7
35	Mechanism for Enhancing Photocurrent of Hot Electron Collection Solar Cells by Adding LiF on the Outmost MAPbI₃ Perovskite Layer. IEEE Journal of Photovoltaics, 2021, 11, 99-103.	2.5	5
36	Impact of A-Site Cations on Fluorescence Quenching in Organicâ€“Inorganic Hybrid Perovskite Materials. Journal of Physical Chemistry C, 2021, 125, 11524-11531.	3.1	3

#	Article	IF	Citations
37	P-type doping in internally photoemitted hot carrier solar cells. Journal of Cleaner Production, 2021, 278, 124168.	9.3	2
38	An Inverted Perovskite Solar Cell with Good Comprehensive Performance Realized by Reducing the Concentration of Precursors. Nanomaterials, 2022, 12, 1736.	4.1	2
39	Correction to Efficient and Stable Perovskite Solar Cells Achieved by Using Bifunctional Interfacial Materials to Modify SnO2 and MAPbI3â€“xClx Simultaneously. ACS Applied Energy Materials, 2021, 4, 8660-8660.	5.1	0