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	Self-woven monolayer polyionic mesh to achieve highly efficient and stable inverted perovskite solar cells. Chemical Engineering Journal, 2022, 428, 132074.	12.7	19
2	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
3	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
4	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
5	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
6	Interface barrier strategy for perovskite solar cells realized by In-situ synthesized polyionic layer. Chemical Engineering Journal, 2022, 439, 135704.	12.7	7
7	Selfâ€Formed Multifunctional Grain Boundary Passivation Layer Achieving 22.4% Efficient and Stable Perovskite Solar Cells. Solar Rrl, 2022, 6, .	5.8	13
8	Interfacial defect passivation by novel phosphonium salts yields 22% efficiency perovskite solar cells: Experimental and theoretical evidence. EcoMat, 2022, 4, .	11.9	35
9	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
10	An Inverted Perovskite Solar Cell with Good Comprehensive Performance Realized by Reducing the Concentration of Precursors. Nanomaterials, 2022, 12, 1736.	4.1	2
11	P-type doping in internally photoemitted hot carrier solar cells. Journal of Cleaner Production, 2021, 278, 124168.	9.3	2
12	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
13	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
14	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
15	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
16	Negative Photoconductance Effect: An Extension Function of the TiO_xâ€Based Memristor. Advanced Science, 2021, 8, 2003765.	11.2	94
17	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
18	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

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19	An analogue memristor made of silk fibroin polymer. Journal of Materials Chemistry C, 2021, 9, 14583-14588.	5.5	22
20	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
21	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
22	An internally photoemitted hot carrier solar cell based on organic-inorganic perovskite. Nano Energy, 2020, 68, 104383.	16.0	26
23	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
24	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
25	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
26	Perovskite solar cells fabricated under ambient air at room temperature without any post-treatment. Organic Electronics, 2020, 86, 105918.	2.6	13
27	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
28	Electron Transport Materials: Evolution and Case Study for Highâ€Efficiency Perovskite Solar Cells. Solar Rrl, 2020, 4, 2000136.	5.8	32
29	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
30	Resistive switching behaviors and memory logic functions in single MnO_x nanorod modulated by moisture. Chemical Communications, 2019, 55, 9915-9918.	4.1	51
31	Evolution map of the memristor: from pure capacitive state to resistive switching state. Nanoscale, 2019, 11, 17222-17229.	5.6	45
32	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
33	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
34	Nuclei position-control and crystal growth-guidance on frozen substrates for high-performance perovskite solar cells. Nanoscale, 2019, 11, 12108-12115.	5.6	10
35	Robust perovskite-based triboelectric nanogenerator enhanced by broadband light and interface engineering. Journal of Materials Science, 2019, 54, 9004-9016.	3.7	46
36	Photoinduced triboelectric polarity reversal and enhancement of a new metal/semiconductor triboelectric nanogenerator. Nano Energy, 2019, 58, 331-337.	16.0	39

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37	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
38	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
39	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