

Xin Wu

List of Publications by Year in descending order

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26
papers

2,105
citations

279798

23
h-index

580821

25
g-index

26
all docs

26
docs citations

26
times ranked

1321
citing authors

#	ARTICLE	IF	CITATIONS
1	Organometallic-functionalized interfaces for highly efficient inverted perovskite solar cells. <i>Science</i> , 2022, 376, 416-420.	12.6	527
2	A Vinyleneâ€Linkerâ€Based Polymer Acceptor Featuring a Coplanar and Rigid Molecular Conformation Enables Highâ€Performance Allâ€Polymer Solar Cells with Over 17% Efficiency. <i>Advanced Materials</i> , 2022, 34, e2200361.	21.0	131
3	Asymmetric Acceptors Enabling Organic Solar Cells to Achieve an over 17% Efficiency: Conformation Effects on Regulating Molecular Properties and Suppressing Nonradiative Energy Loss. <i>Advanced Energy Materials</i> , 2021, 11, 2003177.	19.5	114
4	Efficient Inverted Perovskite Solar Cells with Low Voltage Loss Achieved by a Pyridineâ€Based Dopantâ€Free Polymer Semiconductor. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 7227-7233.	13.8	107
5	Allâ€Inorganic CsPb₃ Quantum Dot Solar Cells with Efficiency over 16% by Defect Control. <i>Advanced Functional Materials</i> , 2021, 31, 2005930.	14.9	101
6	Efficient and stable carbon-based perovskite solar cells enabled by the inorganic interface of CuSCN and carbon nanotubes. <i>Journal of Materials Chemistry A</i> , 2019, 7, 12236-12243.	10.3	91
7	Designs from single junctions, heterojunctions to multijunctions for high-performance perovskite solar cells. <i>Chemical Society Reviews</i> , 2021, 50, 13090-13128.	38.1	91
8	A Dopantâ€Free Polymeric Holeâ€Transporting Material Enabled High Fill Factor Over 81% for Highly Efficient Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2019, 9, 1902600.	19.5	89
9	Lowâ€Bandgap Organic Bulkâ€Heterojunction Enabled Efficient and Flexible Perovskite Solar Cells. <i>Advanced Materials</i> , 2021, 33, e2105539.	21.0	89
10	A Generally Applicable Approach Using Sequential Deposition to Enable Highly Efficient Organic Solar Cells. <i>Small Methods</i> , 2020, 4, 2000687.	8.6	86
11	Selenium-Containing Organic Photovoltaic Materials. <i>Accounts of Chemical Research</i> , 2021, 54, 3906-3916.	15.6	83
12	Modifying Surface Termination of CsPb₃ Grain Boundaries by 2D Perovskite Layer for Efficient and Stable Photovoltaics. <i>Advanced Functional Materials</i> , 2021, 31, 2009515.	14.9	62
13	Interface functionalization in inverted perovskite solar cells: From material perspective. , 2022, 1, e9120011.		53
14	Dopantâ€Free Holeâ€Transporting Material with Enhanced Intermolecular Interaction for Efficient and Stable nâ€iâ€p Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2021, 11, 2100967.	19.5	51
15	Improved stability and efficiency of perovskite/organic tandem solar cells with an all-inorganic perovskite layer. <i>Journal of Materials Chemistry A</i> , 2021, 9, 19778-19787.	10.3	50
16	An effective and economical encapsulation method for trapping lead leakage in rigid and flexible perovskite photovoltaics. <i>Nano Energy</i> , 2022, 93, 106853.	16.0	49
17	Efficient and Stable Tin Perovskite Solar Cells by Pyridineâ€Functionalized Fullerene with Reduced Interfacial Energy Loss. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	49
18	Sulfonated Graphene Aerogels Enable Safeâ€toâ€Use Flexible Perovskite Solar Modules. <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	46

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19	Efficient and stable Cs ₂ AgBiBr ₆ double perovskite solar cells through in-situ surface modulation. <i>Chemical Engineering Journal</i> , 2022, 446, 137144.	12.7	45
20	Interfacial Engineering of Wide-Bandgap Perovskites for Efficient Perovskite/CZTSSe Tandem Solar Cells. <i>Advanced Functional Materials</i> , 2022, 32, 2107359.	14.9	43
21	Interfacial Modification through a Multifunctional Molecule for Inorganic Perovskite Solar Cells with over 18% Efficiency. <i>Solar Rrl</i> , 2020, 4, 2000205.	5.8	38
22	Regulating the Aggregation of Unfused Non-Fullerene Acceptors via Molecular Engineering towards Efficient Polymer Solar Cells. <i>ChemSusChem</i> , 2021, 14, 3579-3589.	6.8	28
23	Synergy of CO ₂ Response and Aggregation-Induced Emission in a Block Copolymer: A Facile Way To "See" Cancer Cells. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 37077-37083.	8.0	23
24	Low-Temperature Processed Carbon Electrode-Based Inorganic Perovskite Solar Cells with Enhanced Photovoltaic Performance and Stability. <i>Energy and Environmental Materials</i> , 2021, 4, 95-102.	12.8	23
25	Efficient Inverted Perovskite Solar Cells with Low Voltage Loss Achieved by a Pyridine-Based Dopant-Free Polymer Semiconductor. <i>Angewandte Chemie</i> , 2021, 133, 7303-7309.	2.0	18
26	Interface Engineering for All-Inorganic CsPbI ₂ Perovskite Solar Cells with Enhanced Power Conversion Efficiency over 11%. <i>Energy Technology</i> , 2021, 9, 2100562.	3.8	18