

Hao-Wen Cheng

List of Publications by Year in descending order

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Version: 2024-02-01

20
papers

870
citations

567281

15
h-index

752698

20
g-index

22
all docs

22
docs citations

22
times ranked

1216
citing authors

#	ARTICLE	IF	CITATIONS
1	Sequential stacking of a thin BHJ layer acting as a morphology regulator for efficiency enhancement in non-fullerene ternary solar cells. <i>Chemical Engineering Journal</i> , 2022, 433, 134337.	12.7	7
2	Toward High-Performance Semitransparent Organic Photovoltaics with Narrow-Bandgap Donors and Non-Fullerene Acceptors. <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	45
3	Surface plasma-induced tunable nitrogen doping through precursors provides 1T-2H MoSe ₂ /graphene sheet composites as electrocatalysts for the hydrogen evolution reaction. <i>Electrochimica Acta</i> , 2022, 426, 140767.	5.2	24
4	Sequential Deposition of Donor and Acceptor Provides High-Performance Semitransparent Organic Photovoltaics Having a Pseudo "n" Active Layer Structure. <i>Advanced Energy Materials</i> , 2021, 11, 2003576.	19.5	52
5	Twisted-graphene-like perylene diimide with dangling functional chromophores as tunable small-molecule acceptors in binary-blend active layers of organic photovoltaics. <i>Journal of Materials Chemistry A</i> , 2021, 9, 20510-20517.	10.3	30
6	High-Performance Organic Photovoltaics Incorporating an Active Layer with a Few Nanometer-Thick Third-Component Layer on a Binary Blend Layer. <i>Nano Letters</i> , 2021, 21, 2207-2215.	9.1	30
7	Semi-Transparent Organic Photovoltaics: Sequential Deposition of Donor and Acceptor Provides High-Performance Semitransparent Organic Photovoltaics Having a Pseudo "n" Active Layer Structure (<i>Adv. Energy Mater.</i> 13/2021). <i>Advanced Energy Materials</i> , 2021, 11, 2170050.	19.5	5
8	High-Performance Organic Solar Cells Featuring Double Bulk Heterojunction Structures with Vertical-Gradient Selenium Heterocyclic Nonfullerene Acceptor Concentrations. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 27227-27236.	8.0	30
9	A review on semitransparent solar cells for agricultural application. <i>Materials Today Energy</i> , 2021, 22, 100852.	4.7	22
10	Potassium-Presenting Zinc Oxide Surfaces Induce Vertical Phase Separation in Fullerene-Free Organic Photovoltaics. <i>Nano Letters</i> , 2020, 20, 715-721.	9.1	48
11	Incorporating Indium Selenide Nanosheets into a Polymer/Small Molecule Binary Blend Active Layer Enhances the Long-Term Stability and Performance of Its Organic Photovoltaics. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 55023-55032.	8.0	12
12	Cathodic plasma-induced syntheses of graphene nanosheet/MnO ₂ /WO ₃ architectures and their use in supercapacitors. <i>Electrochimica Acta</i> , 2020, 342, 136043.	5.2	25
13	Design of a Rigid Scaffold Structure toward Efficient and Stable Organic Photovoltaics. <i>Matter</i> , 2019, 1, 402-411.	10.0	8
14	Realizing Efficient Charge/Energy Transfer and Charge Extraction in Fullerene-Free Organic Photovoltaics via a Versatile Third Component. <i>Nano Letters</i> , 2019, 19, 5053-5061.	9.1	47
15	Hydrogen plasma-treated MoSe ₂ nanosheets enhance the efficiency and stability of organic photovoltaics. <i>Nanoscale</i> , 2019, 11, 17460-17470.	5.6	14
16	Unraveling Sunlight by Transparent Organic Semiconductors toward Photovoltaic and Photosynthesis. <i>ACS Nano</i> , 2019, 13, 1071-1077.	14.6	134
17	Efficient Tandem Organic Photovoltaics with Tunable Rear Sub-cells. <i>Joule</i> , 2019, 3, 432-442.	24.0	65
18	Ternary System with Controlled Structure: A New Strategy toward Efficient Organic Photovoltaics. <i>Advanced Materials</i> , 2018, 30, 1705243.	21.0	105

#	ARTICLE	IF	CITATIONS
19	Molecular engineering of side chain architecture of conjugated polymers enhances performance of photovoltaics by tuning ternary blend structures. Nano Energy, 2018, 43, 138-148.	16.0	51
20	Unique Energy Alignments of a Ternary Material System toward High-Performance Organic Photovoltaics. Advanced Materials, 2018, 30, e1801501.	21.0	116