

Cheng Chen

List of Publications by Year in descending order

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35
papers

1,299
citations

394421

19
h-index

377865

34
g-index

35
all docs

35
docs citations

35
times ranked

1504
citing authors

#	ARTICLE	IF	CITATIONS
1	Phenoxazine-Based Small Molecule Material for Efficient Perovskite Solar Cells and Bulk Heterojunction Organic Solar Cells. <i>Advanced Energy Materials</i> , 2015, 5, 1401720.	19.5	109
2	Efficient Perovskite Solar Cells Based on a Solution Processable Nickel(II) Phthalocyanine and Vanadium Oxide Integrated Hole Transport Layer. <i>Advanced Energy Materials</i> , 2017, 7, 1602556.	19.5	107
3	Interfacial Molecular Doping and Energy Level Alignment Regulation for Perovskite Solar Cells with Efficiency Exceeding 23%. <i>ACS Energy Letters</i> , 2021, 6, 2690-2696.	17.4	96
4	Passivation functionalized phenothiazine-based hole transport material for highly efficient perovskite solar cell with efficiency exceeding 22%. <i>Chemical Engineering Journal</i> , 2021, 410, 128328.	12.7	83
5	Acceptor-Donor-Acceptor type ionic molecule materials for efficient perovskite solar cells and organic solar cells. <i>Nano Energy</i> , 2016, 30, 387-397.	16.0	79
6	Dual effective dopant based hole transport layer for stable and efficient perovskite solar cells. <i>Nano Energy</i> , 2020, 72, 104673.	16.0	78
7	Highly efficient phenothiazine 5,5-dioxide-based hole transport materials for planar perovskite solar cells with a PCE exceeding 20%. <i>Journal of Materials Chemistry A</i> , 2019, 7, 9510-9516.	10.3	60
8	Application of benzodithiophene based A-D-A structured materials in efficient perovskite solar cells and organic solar cells. <i>Nano Energy</i> , 2016, 23, 40-49.	16.0	59
9	Degradation of Cyanoacrylic Acid-Based Organic Sensitizers in Dye-Sensitized Solar Cells. <i>ChemSusChem</i> , 2013, 6, 1270-1275.	6.8	56
10	Constructing binary electron transport layer with cascade energy level alignment for efficient CsPbI ₂ Br solar cells. <i>Nano Energy</i> , 2020, 71, 104604.	16.0	56
11	Highly Efficient Integrated Perovskite Solar Cells Containing a Small Molecule-PCBM Bulk Heterojunction Layer with an Extended Photovoltaic Response Up to 900 nm. <i>Chemistry of Materials</i> , 2016, 28, 8631-8639.	6.7	41
12	Highly Efficient Phenoxazine Core Unit Based Hole Transport Materials for Hysteresis-Free Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 36608-36614.	8.0	41
13	Efficient Panchromatic Organic Sensitizers with Dihydrothiazole Derivative as π -Bridge for Dye-Sensitized Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 10960-10965.	8.0	35
14	Molecular Engineering of Triphenylamine-Based Non-Fullerene Electron-Transport Materials for Efficient Rigid and Flexible Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 38970-38977.	8.0	34
15	Dopant-free methoxy substituted copper(II) phthalocyanine for highly efficient and stable perovskite solar cells. <i>Chemical Engineering Journal</i> , 2020, 387, 124130.	12.7	34
16	Construct efficient CsPbI ₂ Br solar cells by minimizing the open-circuit voltage loss through controlling the peripheral substituents of hole-transport materials. <i>Chemical Engineering Journal</i> , 2021, 425, 131675.	12.7	34
17	Highly efficient perovskite solar cells based on symmetric hole transport material constructed with indaceno[1,2-b:5,6-b']dithiophene core building block. <i>Journal of Energy Chemistry</i> , 2020, 43, 98-103.	12.9	31
18	Surface Defect Passivation and Energy Level Alignment Engineering with a Fluorine-Substituted Hole Transport Material for Efficient Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 13470-13477.	8.0	26

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19	In-situ secondary annealing treatment assisted effective surface passivation of shallow defects for efficient perovskite solar cells. <i>Journal of Power Sources</i> , 2021, 492, 229621.	7.8	23
20	Construction of efficient perovskite solar cell through small-molecule synergistically assisted surface defect passivation and fluorescence resonance energy transfer. <i>Chemical Engineering Journal</i> , 2021, 426, 131358.	12.7	22
21	Impact of fluorine substitution in organic functional materials for perovskite solar cell. <i>Dyes and Pigments</i> , 2022, 198, 110029.	3.7	22
22	Bi(trifluoromethyl) Benzoic Acid-Assisted Shallow Defect Passivation for Perovskite Solar Cells with an Efficiency Exceeding 21%. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 3930-3938.	8.0	21
23	Electron transport interface engineering with pyridine functionalized perylene diimide-based material for inverted perovskite solar cell. <i>Chemical Engineering Journal</i> , 2022, 438, 135410.	12.7	21
24	Spatial configuration engineering of perylene diimide-based non-fullerene electron transport materials for efficient inverted perovskite solar cells. <i>Journal of Energy Chemistry</i> , 2021, 56, 374-382.	12.9	20
25	Molecular engineering of ionic type perylene diimide dimer-based electron transport materials for efficient planar perovskite solar cells. <i>Materials Today Energy</i> , 2018, 9, 264-270.	4.7	19
26	Enhancing the performance of perovskite solar cells through simple bilateral active site molecule assisted surface defect passivation. <i>Chemical Engineering Journal</i> , 2022, 432, 134223.	12.7	17
27	Fluorine-Substituted Benzotriazole Core Building Block-Based Highly Efficient Hole-Transporting Materials for Mesoporous Perovskite Solar Cells. <i>Solar Rrl</i> , 2020, 4, 1900362.	5.8	16
28	Molecular engineering of small molecules donor materials based on phenoxazine core unit for solution-processed organic solar cells. <i>Journal of Materials Chemistry A</i> , 2014, 2, 10465-10469.	10.3	15
29	Constructing Efficient Hole-Transporting Materials by Tuning Fluorine Substitution for Inverted Perovskite Solar Cells with Efficiency Exceeding 20%. <i>ACS Applied Energy Materials</i> , 2022, 5, 5901-5908.	5.1	15
30	Construction of Efficient and Stable FAPbI ₃ Perovskite Solar Cells through Bifunctional Ionic Liquid-Assisted Crystallization and Defect Passivation. <i>Solar Rrl</i> , 2022, 6, .	5.8	12
31	Highly efficient organic dyes containing a benzopyran ring as a "bridge for DSSCs. <i>RSC Advances</i> , 2013, 3, 12688.	3.6	5
32	Bipolar Organic Material Assisted Surface and Boundary Defects Passivation for Highly Efficient MAPbI ₃ -Based Inverted Perovskite Solar Cells. <i>Solar Rrl</i> , 2020, 4, 2000369.	5.8	5
33	Kernel Sparse Representation with Hybrid Regularization for On-Road Traffic Sensor Data Imputation. <i>Sensors</i> , 2018, 18, 2884.	3.8	4
34	Benzo[1,2-c:4,5-c']dithiophene-4,8-dione (BDD) Core Building Block Based Dopant-Free Hole-Transport Materials for Efficient and Stable Perovskite Solar Cell. <i>ACS Applied Energy Materials</i> , 2020, 3, 10333-10339.	5.1	3
35	Solar Cells: Efficient Perovskite Solar Cells Based on a Solution Processable Nickel(II) Phthalocyanine and Vanadium Oxide Integrated Hole Transport Layer (<i>Adv. Energy Mater.</i> 14/2017). <i>Advanced Energy Materials</i> , 2017, 7, .	19.5	0