

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	Impact of fluorine substitution in organic functional materials for perovskite solar cell. Dyes and Pigments, 2022, 198, 110029.	3.7	22
2	Enhancing the performance of perovskite solar cells through simple bilateral active site molecule assisted surface defect passivation. Chemical Engineering Journal, 2022, 432, 134223.	12.7	17
3	Bi(trifluoromethyl) Benzoic Acid-Assisted Shallow Defect Passivation for Perovskite Solar Cells with an Efficiency Exceeding 21%. ACS Applied Materials & Interfaces, 2022, 14, 3930-3938.	8.0	21
4	Electron transport interface engineering with pyridine functionalized perylene diimide-based material for inverted perovskite solar cell. Chemical Engineering Journal, 2022, 438, 135410.	12.7	21
5	Constructing Efficient Hole-Transporting Materials by Tuning Fluorine Substitution for Inverted Perovskite Solar Cells with Efficiency Exceeding 20%. ACS Applied Energy Materials, 2022, 5, 5901-5908.	5.1	15
6	Construction of Efficient and Stable FAPbI ₃ Perovskite Solar Cells through Bifunctional Ionic Liquid-Assisted Crystallization and Defect Passivation. Solar Rrl, 2022, 6, .	5.8	12
7	Spatial configuration engineering of perylenediimide-based non-fullerene electron transport materials for efficient inverted perovskite solar cells. Journal of Energy Chemistry, 2021, 56, 374-382.	12.9	20
8	Surface Defect Passivation and Energy Level Alignment Engineering with a Fluorine-Substituted Hole Transport Material for Efficient Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2021, 13, 13470-13477.	8.0	26
9	In-situ secondary annealing treatment assisted effective surface passivation of shallow defects for efficient perovskite solar cells. Journal of Power Sources, 2021, 492, 229621.	7.8	23
10	Passivation functionalized phenothiazine-based hole transport material for highly efficient perovskite solar cell with efficiency exceeding 22%. Chemical Engineering Journal, 2021, 410, 128328.	12.7	83
11	Interfacial Molecular Doping and Energy Level Alignment Regulation for Perovskite Solar Cells with Efficiency Exceeding 23%. ACS Energy Letters, 2021, 6, 2690-2696.	17.4	96
12	Construct efficient CsPbI ₂ Br solar cells by minimizing the open-circuit voltage loss through controlling the peripheral substituents of hole-transport materials. Chemical Engineering Journal, 2021, 425, 131675.	12.7	34
13	Construction of efficient perovskite solar cell through small-molecule synergistically assisted surface defect passivation and fluorescence resonance energy transfer. Chemical Engineering Journal, 2021, 426, 131358.	12.7	22
14	Highly efficient perovskite solar cells based on symmetric hole transport material constructed with indaceno[1,2-b:5,6-b']dithiophene core building block. Journal of Energy Chemistry, 2020, 43, 98-103.	12.9	31
15	Fluorine-Substituted Benzotriazole Core Building Block-Based Highly Efficient Hole-Transporting Materials for Mesoporous Perovskite Solar Cells. Solar Rrl, 2020, 4, 1900362.	5.8	16
16	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. ACS Applied Energy Materials, 2020, 3, 10333-10339.	5.1	3
17	Bipolar Organic Material Assisted Surface and Boundary Defects Passivation for Highly Efficient MAPbI ₃ -Based Inverted Perovskite Solar Cells. Solar Rrl, 2020, 4, 2000369.	5.8	5
18	Dual effective dopant based hole transport layer for stable and efficient perovskite solar cells. Nano Energy, 2020, 72, 104673.	16.0	78

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	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
22	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
23	Kernel Sparse Representation with Hybrid Regularization for On-Road Traffic Sensor Data Imputation. <i>Sensors</i> , 2018, 18, 2884.	3.8	4
24	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
25	Molecular engineering of ionic type perylene-dimide dimer-based electron transport materials for efficient planar perovskite solar cells. <i>Materials Today Energy</i> , 2018, 9, 264-270.	4.7	19
26	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
27	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
28	Highly Efficient Integrated Perovskite Solar Cells Containing a Small Molecule-PC ₇₀ BM Bulk Heterojunction Layer with an Extended Photovoltaic Response Up to 900 nm. <i>Chemistry of Materials</i> , 2016, 28, 8631-8639.	6.7	41
29	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
30	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
31	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
32	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
33	Highly efficient organic dyes containing a benzopyran ring as a bridge for DSSCs. <i>RSC Advances</i> , 2013, 3, 12688.	3.6	5
34	Efficient Panchromatic Organic Sensitizers with Dihydrothiazole Derivative as Bridge for Dye-Sensitized Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 10960-10965.	8.0	35
35	Degradation of Cyanoacrylic Acid-Based Organic Sensitizers in Dye-Sensitized Solar Cells. <i>ChemSusChem</i> , 2013, 6, 1270-1275.	6.8	56