Ping Cai

List of Publications by Year
in descending order

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59	1,855	304743 22	265206 42
papers	citations	h-index	g-index

60	60	60	2609
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	OUP accepted manuscript. Journal of Pharmacy and Pharmacology, 2022, , .	2.4	1
2	Cyano-bridged Schottky junction of CN-TiC for enhanced photocatalytic H2 evolution and tetracycline degradation. Applied Surface Science, 2022, 583, 152515.	6.1	19
3	Solution-Processed MoCl5 and its Composites for Tailoring Hole Injection in Near-Ultraviolet Organic Light-Emitting Diodes. Journal of Electronic Materials, 2022, 51, 1850-1856.	2.2	0
4	Synthesis of orthogonal pushâ€“pull chromophores via click reaction of arylynamines. Organic and Biomolecular Chemistry, 2022, 20, 4081-4085.	2.8	4
5	A donor polymer based on 3-cyanothiophene with superior batch-to-batch reproducibility for high-efficiency organic solar cells. Energy and Environmental Science, 2021, 14, 5530-5540.	30.8	66
6	A solution-processed, ultraviolet-irradiation-derived WO3 film as anode interface layer for high-performance non-fullerene organic solar cells. Solar Energy, 2021, 216, 211-216.	6.1	12
7	Cross-Linkable and Alcohol-Soluble Pyridine-Incorporated Polyfluorene Derivative as a Cathode Interface Layer for High-Efficiency and Stable Organic Solar Cells. ACS Applied Materials & Interfaces, 2021, 13, 12296-12304.	8.0	28
8	Poly(3,4â€ethylenedioxythiophene)â€poly(styrenesulfonate) Modified by Water for Efficient Inverted Perovskite Solar Cells. Physica Status Solidi (A) Applications and Materials Science, 2021, 218, 2100066.	1.8	1
9	Design of core-shelled g-C3N4@ZIF-8 photocatalyst with enhanced tetracycline adsorption for boosting photocatalytic degradation. Chemical Engineering Journal, 2021, 416, 129148.	12.7	165
10	Constructing defect-related subband in silver indium sulfide QDs via pH-dependent oriented aggregation for boosting photocatalytic hydrogen evolution. Journal of Colloid and Interface Science, 2021, 593, 222-230.	9.4	11
11	Nâ€Type Quinoidal Polymers Based on Dipyrrolopyrazinedione for Application in Allâ€Polymer Solar Cells. Chemistry - A European Journal, 2021, 27, 13527-13533.	3.3	8
12	Alcohol-soluble fluorene derivate functionalized with pyridyl groups as a high-performance cathode interfacial material in organic solar cells. New Journal of Chemistry, 2021, 45, 4584-4591.	2.8	5
13	Sequentially Deposited Active Layer with Bulk-Heterojunction-like Morphology for Efficient Conventional and Inverted All-Polymer Solar Cells. ACS Applied Energy Materials, 2021, 4, 13307-13315.	5.1	10
14	Ti3C2Tx MXene for organic/perovskite optoelectronic devices. Journal of Central South University, 2021, 28, 3935-3958.	3.0	15
15	A new fluorinated pyran-bridged A-D-A type small molecular acceptor for organic solar cells. Dyes and Pigments, 2020, 175, 108165.	3.7	18
16	Synergetic defects boost charge separation in CN for enhanced photocatalytic water splitting. Journal of Materials Chemistry C, 2020, 8, 9366-9372.	5.5	15
17	An Ultravioletâ€Deposited MoO 3 Film as Anode Interlayer for Highâ€Performance Polymer Solar Cells. Advanced Materials Interfaces, 2020, 7, 1901912.	3.7	14
18	Preparation and Characterization of PEG4000 Palmitate/PEG8000 Palmitate-Solid Dispersion Containing the Poorly Water-Soluble Drug Andrographolide. Advances in Polymer Technology, 2020, 2020, 1-7.	1.7	4

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19	The efficient and non-hysteresis inverted non-fullerenes/CH3NH3PbI3 planar solar cells. Solar Energy, 2019, 189, 307-313.	6.1	16
20	Synthesis, characterization and device application of a novel blue-emitting copolymer incorporating fluorene and benzothiazole backbone units. Optical Materials, 2019, 98, 109443.	3.6	10
21	Novel dinuclear cyclometalated Platinum(II) complex as orange phosphorescent emitters for single-emitting-layer white polymer light-emitting diodes. Optical Materials, 2019, 88, 551-557.	3.6	7
22	Enhancing stability of red perovskite nanocrystals through copper substitution for efficient light-emitting diodes. Nano Energy, 2019, 62, 434-441.	16.0	103
23	Achieving efficient inverted planar perovskite solar cells with nondoped PTAA as a hole transport layer. Organic Electronics, 2019, 71, 106-112.	2.6	84
24	Pyran-bridged A-D-A type small molecular acceptors for organic solar cells. Solar Energy, 2019, 183, 463-468.	6.1	15
25	5,6-Difluorobenzothiazole-Based Conjugated Polymers with Large Band Gaps and Deep Highest Occupied Molecular Orbital Levels. ACS Applied Materials & Interfaces, 2018, 10, 11094-11100.	8.0	10
26	Benzoselenadiazole-based donor-acceptor small molecule: Synthesis, aggregation-induced emission and electroluminescence. Dyes and Pigments, 2018, 149, 399-406.	3.7	21
27	Facile solution-processed aqueous MoO for feasible application in organic light-emitting diode. Optics and Laser Technology, 2018, 101, 85-90.	4.6	9
28	A new wide-bandgap conjugated polymer based on imide-fused benzotriazole for highly efficient nonfullerene polymer solar cells. Dyes and Pigments, 2018, 158, 219-224.	3.7	3
29	Efficient Inverted Polymer Solar Cells with ITO Cathode Modified by Zinc Oxide and Polyethylene Oxide Bilayers. Physica Status Solidi (A) Applications and Materials Science, 2018, 215, 1800113.	1.8	2
30	Polymer with a 3D conductive network: a thickness-insensitive electron transport layer for inverted polymer solar cells. Journal of Materials Chemistry A, 2018, 6, 12969-12973.	10.3	25
31	Exceeding 4% external quantum efficiency in ultraviolet organic light-emitting diode using PEDOT:PSS/MoOx double-stacked hole injection layer. Applied Physics Letters, 2017, 110, .	3.3	47
32	An extended Ï€-conjugated area of electron-donating units in Dâ€“A structured polymers towards high-mobility field-effect transistors and highly efficient polymer solar cells. Journal of Materials Chemistry C, 2017, 5, 2786-2793.	5.5	32
33	High alcohol-soluble MoO x gel for interfacial layer in organic solar cells. Current Applied Physics, 2017, 17, 1021-1028.	2.4	12
34	Effects of including electron-withdrawing atoms on the physical and photovoltaic properties of indacenodithieno[3,2-b]thiophene-based donorâ€“acceptor polymers: towards an acceptor design for efficient polymer solar cells. RSC Advances, 2017, 7, 20440-20450.	3.6	18
35	Solution-processed aqueous composite hole injection layer of PEDOT:PSS+MoO for efficient ultraviolet organic light-emitting diode. Organic Electronics, 2017, 46, 7-13.	2.6	46
36	Efficient and stable inverted polymer solar cells prepared via air exposure. Physica Status Solidi (A) Applications and Materials Science, 2017, 214, 1600580.	1.8	0

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37	Electroluminescent Performances of Iridium Complexes with Dibenzo-18-crown-6. Journal of Inorganic and Organometallic Polymers and Materials, 2017, 27, 941-947.	3.7	0
38	Sky-blue phosphorescent organic light-emitting diodes with dibenzo-24-crown-8 substituted iridium(III) complexes as the dopants. Dyes and Pigments, 2017, 138, 77-82.	3.7	9
39	A wide temperature tolerance, solution-processed MoOx interface layer for efficient and stable organic solar cells. Solar Energy Materials and Solar Cells, 2017, 159, 136-142.	6.2	31
40	Solution-processed MoOx hole injection layer towards efficient organic light-emitting diode. Organic Electronics, 2016, 39, 43-49.	2.6	42
41	Nanowires of indigo and isoindigo-based molecules with thermally removable groups. Dyes and Pigments, 2016, 125, 54-63.	3.7	23
42	Organic/Organic Cathode Bi-Interlayers Based on a Water-Soluble Nonconjugated Polymer and an Alcohol-Soluble Conjugated Polymer for High Efficiency Inverted Polymer Solar Cells. ACS Applied Materials & Interfaces, 2015, 7, 27871-27877.	8.0	21
43	Donorâ€“Acceptor Copolymers Based on Thermally Cleavable Indigo, Isoindigo, and DPP Units: Synthesis, Field Effect Transistors, and Polymer Solar Cells. ACS Applied Materials & Interfaces, 2015, 7, 9038-9051.	8.0	69
44	Using d-limonene as the non-aromatic and non-chlorinated solvent for the fabrications of high performance polymer light-emitting diodes and field-effect transistors. Organic Electronics, 2015, 23, 193-198.	2.6	23
45	Low Bandâ€Gap Conjugated Polymers with Strong Interchain Aggregation and Very High Hole Mobility Towards Highly Efficient Thickâ€Film Polymer Solar Cells. Advanced Materials, 2014, 26, 2586-2591.	21.0	375
46	A water-processable organic electron-selective layer for solution-processed inverted organic solar cells. Applied Physics Letters, 2014, 104, 053304.	3.3	12
47	D-A copolymers based on 5,6-difluorobenzotriazole and oligothiophenes: Synthesis, field effect transistors, and polymer solar cells. Polymer, 2014, 55, 1707-1715.	3.8	26
48	Narrow-Band-Gap Conjugated Polymers Based on 2,7-Dioctyl-Substituted Dibenzo[a,c]phenazine Derivatives for Polymer Solar Cells. Macromolecules, 2014, 47, 2921-2928.	4.8	62
49	Using ultra-high molecular weight hydrophilic polymer as cathode interlayer for inverted polymer solar cells: Enhanced efficiency and excellent air-stability. Solar Energy Materials and Solar Cells, 2014, 123, 104-111.	6.2	18
50	Substantial Performance Improvement in Inverted Polymer Light-Emitting Diodes via Surface Plasmon Resonance Induced Electrode Quenching Control. ACS Applied Materials & Interfaces, 2014, 6, 11001-11006.	8.0	51
51	Small molecular non-fullerene electron acceptors for P3HT-based bulk-heterojunction solar cells. Science China Chemistry, 2014, 57, 973-981.	8.2	14
52	Dibenzothiophene- S,S -dioxide based medium-band-gap polymers for efficient bulk heterojunction solar cells. Organic Electronics, 2014, 15, 2950-2958.	2.6	8
53	Low bandâ€gap Dâ€“A conjugated copolymers based on anthradithiophene and diketopyrrolopyrrole for polymer solar cells and fieldâ€effect transistors. Journal of Polymer Science Part A, 2014, 52, 1652-1661.	2.3	12
54	Synthesis and characterization of thieno[3,2â€b]thiopheneâ€isoindigoâ€based copolymers as electron donor and hole transport materials for bulkâ€heterojunction polymer solar cells. Journal of Polymer Science Part A, 2013, 51, 424-434.	2.3	34

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55	Synthesis of a Novel Lowâ€Bandgap Polymer Based on a Ladderâ€Type Heptacyclic Arene Consisting of Outer Thieno[3,2â€b]thiophene Units for Efficient Photovoltaic Application. Macromolecular Rapid Communications, 2013, 34, 681-688.	3.9	26
56	Efficient Single-Layer White Light-Emitting Devices Based on Silole-Containing Polymers. Journal of Display Technology, 2013, 9, 490-496.	1.2	26
57	Donorâ€“acceptor copolymers based on phenanthrene as electronâ€donating unit: Synthesis and photovoltaic performances. Journal of Polymer Science Part A, 2013, 51, 4966-4974.	2.3	9
58	High Efficiency and High V_{oc} Inverted Polymer Solar Cells Based on a Low-Lying HOMO Polycarbazole Donor and a Hydrophilic Polycarbazole Interlayer on ITO Cathode. Journal of Physical Chemistry C, 2012, 116, 14188-14198.	3.1	105
59	Chlorination converting one efficient polymeric donor to an effective electron acceptor in organic solar cells. Nano Select, 0, , .	3.7	3