Chenyi Yi

List of Publications by Year
in descending order

73 papers	17,076 citations	70961 41 h-index	85405 71 g-index
78 all docs	78 docs citations	78 times ranked	16549 citing authors

#	Article	IF	Citations
1	Brominated PEAI as Multiâ€Functional Passivator for Highâ€Efficiency Perovskite Solar Cell. Energy and Environmental Materials, 2023, 6, .	7.3	16
2	Bananaâ€shaped electron acceptors with an electronâ€rich core fragment and 3D packing capability. , 2023, 5, .		22
3	3D cubic framework of fluoride perovskite SEI inducing uniform lithium deposition for air-stable and dendrite-free lithium metal anodes. Chemical Engineering Journal, 2022, 431, 134266.	6.6	17
4	Engineering of the alkyl chain branching point on a lactone polymer donor yields 17.81% efficiency. Journal of Materials Chemistry A, 2022, 10, 3314-3320.	5.2	17
5	ADAâ€²DA small molecule acceptors with non-fully-fused core units. Materials Chemistry Frontiers, 2022, 6, 802-806.	3.2	3
6	2-CF3-PEAI to eliminate Pb0 traps and form a 2D perovskite layer to enhance the performance and stability of perovskite solar cells. Nano Energy, 2022, 95, 107036.	8.2	54
7	A chlorinated lactone polymer donor featuring high performance and low cost. Journal of Semiconductors, 2022, 43, 050501.	2.0	14
8	Over 24% efficient MA-free CsxFA1âˆ’xPbX3 perovskite solar cells. Joule, 2022, 6, 1344-1356.	11.7	58
9	Sequential vacuum-evaporated perovskite solar cells with more than 24% efficiency. Science Advances, 2022, 8, .	4.7	118
10	Water Stable Haloplumbate Modulation for Efficient and Stable Hybrid Perovskite Photovoltaics. Advanced Energy Materials, 2021, 11, 2101082.	10.2	21
11	Hydrophobic Organic Ammonium Halide Modification toward Highly Efficient and Stable CsPbI_{2.25}Br_{0.75} Solar Cell. Solar Rrl, 2021, 5, 2100178.	3.1	8
12	Effects of N-Positions on Pyridine Carboxylic Acid-Modified Inverted Perovskite Solar Cells. ACS Applied Energy Materials, 2021, 4, 6903-6911.	2.5	7
13	Over 16% efficiency from thick-film organic solar cells. Science Bulletin, 2020, 65, 1979-1982.	4.3	62
14	Progress of the key materials for organic solar cells. Science China Chemistry, 2020, 63, 758-765.	4.2	158
15	Raman scattering obtained from laser excitation of MAPbI3 single crystal. Applied Materials Today, 2020, 19, 100571.	2.3	2
16	Photovoltaic Performance of Porphyrinâ€Based Dyeâ€Sensitized Solar Cells with Binary Ionic Liquid Electrolytes. Energy Technology, 2020, 8, 2000092.	1.8	5
17	Ligandâ€Modulated Excess PbI₂ Nanosheets for Highly Efficient and Stable Perovskite Solar Cells. Advanced Materials, 2020, 32, e2000865.	11.1	136
18	Progress of the key materials for organic solar cells. Scientia Sinica Chimica, 2020, 50, 437-446.	0.2	8

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19	Interface engineering gifts CsPbI2.25Br0.75 solar cells high performance. Science Bulletin, 2019, 64, 1743-1746.	4.3	51
20	Alkoxythiophene and alkylthiothiophene Ï€-bridges enhance the performance of Aâ€“Dâ€“A electron acceptors. Materials Chemistry Frontiers, 2019, 3, 492-495.	3.2	21
21	Comprehensive control of voltage loss enables 11.7% efficient solid-state dye-sensitized solar cells. Energy and Environmental Science, 2018, 11, 1779-1787.	15.6	148
22	Isomerâ€Pure Bisâ€PCBMâ€Assisted Crystal Engineering of Perovskite Solar Cells Showing Excellent Efficiency and Stability. Advanced Materials, 2017, 29, 1606806.	11.1	320
23	Atomically Altered Hematite for Highly Efficient Perovskite Tandem Waterâ€Splitting Devices. ChemSusChem, 2017, 10, 2449-2456.	3.6	71
24	Over 20% PCE perovskite solar cells with superior stability achieved by novel and low-cost hole-transporting materials. Nano Energy, 2017, 41, 469-475.	8.2	232
25	Dopant-free star-shaped hole-transport materials for efficient and stable perovskite solar cells. Dyes and Pigments, 2017, 136, 273-277.	2.0	83
26	Identifying Fundamental Limitations in Halide Perovskite Solar Cells. Advanced Materials, 2016, 28, 2439-2445.	11.1	129
27	A novel one-step synthesized and dopant-free hole transport material for efficient and stable perovskite solar cells. Journal of Materials Chemistry A, 2016, 4, 16330-16334.	5.2	87
28	Molecular Engineering of Potent Sensitizers for Very Efficient Light Harvesting in Thin-Film Solid-State Dye-Sensitized Solar Cells. Journal of the American Chemical Society, 2016, 138, 10742-10745.	6.6	119
29	Dopantâ€Free Donor (D)â€“Ï€â€“Dâ€“Ï€â€“D Conjugated Holeâ€Transport Materials for Efficient and Stable Perovskite Solar Cells. ChemSusChem, 2016, 9, 2578-2585.	3.6	83
30	Polymer-templated nucleation and crystal growth of perovskite films for solar cells with efficiency greater thanÂ21%. Nature Energy, 2016, 1, .	19.8	1,719
31	Perovskite Photovoltaics with Outstanding Performance Produced by Chemical Conversion of Bilayer Mesostructured Lead Halide/TiO₂ Films. Advanced Materials, 2016, 28, 2964-2970.	11.1	144
32	A vacuum flashâ€“assisted solution process for high-efficiency large-area perovskite solar cells. Science, 2016, 353, 58-62.	6.0	1,636
33	A Novel Dopantâ€Free Triphenylamine Based Molecular â€œButterflyâ€• Holeâ€Transport Material for Highly Efficient and Stable Perovskite Solar Cells. Advanced Energy Materials, 2016, 6, 1600401.	10.2	161
34	Entropic stabilization of mixed A-cation ABX₃ metal halide perovskites for high performance perovskite solar cells. Energy and Environmental Science, 2016, 9, 656-662.	15.6	1,077
35	A hybrid electron donor comprising cyclopentadithiophene and dithiafulvenyl for dye-sensitized solar cells. Beilstein Journal of Organic Chemistry, 2015, 11, 1052-1059.	1.3	12
36	Anthanthrene dye-sensitized solar cells: influence of the number of anchoring groups and substitution motif. RSC Advances, 2015, 5, 98643-98652.	1.7	14

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37	Improved performance and stability of perovskite solar cells by crystal crosslinking with alkylphosphonic acid Ï‰-ammonium chlorides. Nature Chemistry, 2015, 7, 703-711.	6.6	1,033
38	Enhancing the Stability of Porphyrin Dyeâ€Sensitized Solar Cells by Manipulation of Electrolyte Additives. ChemSusChem, 2015, 8, 255-259.	3.6	18
39	High efficiency porphyrin sensitized mesoscopic solar cells. , 2014, , .		0
40	Extended Ï€â€Bridge in Organic Dyeâ€Sensitized Solar Cells: the Longer, the Better?. Advanced Energy Materials, 2014, 4, 1301485.	10.2	61
41	Influence of the Donor Size in Dâˆ’Ï€â€“A Organic Dyes for Dye-Sensitized Solar Cells. Journal of the American Chemical Society, 2014, 136, 5722-5730.	6.6	417
42	Quantum-Confined ZnO Nanoshell Photoanodes for Mesoscopic Solar Cells. Nano Letters, 2014, 14, 1190-1195.	4.5	42
43	A quinoxaline-fused tetrathiafulvalene-based sensitizer for efficient dye-sensitized solar cells. Chemical Communications, 2014, 50, 6540-6542.	2.2	65
44	Influence of Structural Variations in Pushâ€“Pull Zinc Porphyrins on Photovoltaic Performance of Dyeâ€Sensitized Solar Cells. ChemSusChem, 2014, 7, 1107-1113.	3.6	39
45	Regulating a Benzodifuran Single Molecule Redox Switch via Electrochemical Gating and Optimization of Molecule/Electrode Coupling. Journal of the American Chemical Society, 2014, 136, 8867-8870.	6.6	100
46	Electronic tuning effects via Ï€-linkers in tetrathiafulvalene-based dyes. New Journal of Chemistry, 2014, 38, 3269.	1.4	23
47	Thiadiazolo[3,4-c]pyridine Acceptor Based Blue Sensitizers for High Efficiency Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2014, 118, 17090-17099.	1.5	24
48	Probing Charge Transfer in Benzodifuranâ€“C₆₀ Dumbbellâ€Type Electron Donorâ€“Acceptor Conjugates: Groundâ€•and Excitedâ€State Assays. ChemPhysChem, 2013, 14, 2910-2919.	1.0	9
49	Benzo[1,2-b:4,5-bâ€²]difuran-based sensitizers for dye-sensitized solar cells. RSC Advances, 2013, 3, 19798.	1.7	14
50	Evaluating the Critical Thickness of TiO₂ Layer on Insulating Mesoporous Templates for Efficient Current Collection in Dyeâ€Sensitized Solar Cells. Advanced Functional Materials, 2013, 23, 2775-2781.	7.8	56
51	A cobalt complex redox shuttle for dye-sensitized solar cells with high open-circuit potentials. Nature Communications, 2012, 3, 631.	5.8	554
52	A Spectroscopic and Computational Study of a Photoinduced Crossâ€Dehydrogenative Coupling Reaction of a Stable Semiquinone Radical. Chemistry - A European Journal, 2012, 18, 13605-13608.	1.7	3
53	Influence of Donor Groups of Organic Dâˆ’Ï€â€“A Dyes on Open-Circuit Voltage in Solid-State Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2012, 116, 1572-1578.	1.5	69
54	Subnanometer Ga₂O₃ Tunnelling Layer by Atomic Layer Deposition to Achieve 1.1 V Open-Circuit Potential in Dye-Sensitized Solar Cells. Nano Letters, 2012, 12, 3941-3947.	4.5	188

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55	Avoiding Diffusion Limitations in Cobalt(III/II)â€<i>Tris</i>(2,2â€²â€Bipyridine)â€Based Dyeâ€Sensitized Solar Cells by Tuning the Mesoporous TiO₂ Film Properties. ChemPhysChem, 2012, 13, 2976-2981.	1.0	75
56	A new generation of platinum and iodine free efficient dye-sensitized solar cells. Physical Chemistry Chemical Physics, 2012, 14, 10631.	1.3	89
57	Synthesis, structures, redox and photophysical properties of benzodifuran-functionalised pyrene and anthracene fluorophores. Organic and Biomolecular Chemistry, 2011, 9, 6410.	1.5	26
58	Influence of the interfacial charge-transfer resistance at the counter electrode in dye-sensitized solar cells employing cobalt redox shuttles. Energy and Environmental Science, 2011, 4, 4921.	15.6	196
59	Tris(2-(1<i>H</i>-pyrazol-1-yl)pyridine)cobalt(III) as p-Type Dopant for Organic Semiconductors and Its Application in Highly Efficient Solid-State Dye-Sensitized Solar Cells. Journal of the American Chemical Society, 2011, 133, 18042-18045.	6.6	698
60	Porphyrin-Sensitized Solar Cells with Cobalt (II/III)â€"Based Redox Electrolyte Exceed 12 Percent Efficiency. Science, 2011, 334, 629-634.	6.0	5,637
61	Cyclopentadithiophene Bridged Donorâ€"Acceptor Dyes Achieve High Power Conversion Efficiencies in Dyeâ€Sensitized Solar Cells Based on the <i>tris</i>â€Cobalt Bipyridine Redox Couple. ChemSusChem, 2011, 4, 591-594.	3.6	327
62	Versatile Strategy To Access Fully Functionalized Benzodifurans: Redox-Active Chromophores for the Construction of Extended Ï€-Conjugated Materials. Journal of Organic Chemistry, 2010, 75, 3350-3357.	1.7	51
63	Benzodifuran-Based Ï€-Conjugated Copolymers for Bulk Heterojunction Solar Cells. Macromolecules, 2010, 43, 8058-8062.	2.2	51
64	Isolable Zwitterionic Pyridinio-semiquinone Ï€-Radicals. Mild and Efficient Single-Step Access to Stable Radicals. Organic Letters, 2009, 11, 2261-2264.	2.4	8
65	Preparation of Zwitterionic Hydroquinone-Fused [1,4]Oxazinium Derivatives via a Photoinduced Intramolecular Dehydrogenative-Coupling Reaction. Organic Letters, 2009, 11, 5530-5533.	2.4	11
66	An efficient one-pot synthesis of strongly fluorescent (hetero)arenes polysubstituted with amino and cyano groups. Tetrahedron, 2008, 64, 9437-9441.	1.0	11
67	Efficient and selective nickel(II)-catalyzed tail-to-head dimerization of styrenes affording 1,3-diaryl-1-butenes. Catalysis Communications, 2008, 9, 85-88.	1.6	18
68	An Efficient and Facile Synthesis of Highly Substituted 2,6-Dicyanoanilines. Journal of Organic Chemistry, 2008, 73, 3596-3599.	1.7	31
69	A Layered Red-Emitting Chromophoric Organic Salt. Crystal Growth and Design, 2008, 8, 3004-3009.	1.4	11
70	Palladiumâ€Catalyzed Efficient and Oneâ€Pot Synthesis of Diarylacetylenes from the Reaction of Aryl Chlorides with 2â€Methylâ€3â€butynâ€2â€ol. Advanced Synthesis and Catalysis, 2007, 349, 1738-1742.	2.1	42
71	A copper-free efficient palladium (II)-catalyzed coupling of aryl bromides with terminal alkynes. Catalysis Communications, 2006, 7, 377-379.	1.6	40
72	Efficient Copper-Free PdCl2(PCy3)2-Catalyzed Sonogashira Coupling of Aryl Chlorides with Terminal Alkynes. Journal of Organic Chemistry, 2006, 71, 2535-2537.	1.7	163

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73	An efficient palladium-catalyzed Heck coupling of aryl chlorides with alkenes. Tetrahedron Letters, 2006, 47, 2573-2576.	0.7	43