

Chenyi Yi

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

67

papers

14,849

citations

39

h-index

78

g-index

78

ext. papers

15,966

ext. citations

12.2

avg, IF

6.33

L-index

#	Paper	IF	Citations
67	2-CF3-PEAI to eliminate PbO traps and form a 2D perovskite layer to enhance the performance and stability of perovskite solar cells. <i>Nano Energy</i> , 2022 , 95, 107036	17.1	13
66	3D cubic framework of fluoride perovskite SEI inducing uniform lithium deposition for air-stable and dendrite-free lithium metal anodes. <i>Chemical Engineering Journal</i> , 2022 , 431, 134266	14.7	1
65	A chlorinated lactone polymer donor featuring high performance and low cost. <i>Journal of Semiconductors</i> , 2022 , 43, 050501	2.3	2
64	Water Stable Haloplumbate Modulation for Efficient and Stable Hybrid Perovskite Photovoltaics. <i>Advanced Energy Materials</i> , 2021 , 11, 2101082	21.8	6
63	Hydrophobic Organic Ammonium Halide Modification toward Highly Efficient and Stable CsPbI _{2.25} Br _{0.75} Solar Cell. <i>Solar Rrl</i> , 2021 , 5, 2100178	7.1	3
62	Effects of N-Positions on Pyridine Carboxylic Acid-Modified Inverted Perovskite Solar Cells. <i>ACS Applied Energy Materials</i> , 2021 , 4, 6903-6911	6.1	4
61	Progress of the key materials for organic solar cells. <i>Science China Chemistry</i> , 2020 , 63, 758-765	7.9	101
60	Raman scattering obtained from laser excitation of MAPbI ₃ single crystal. <i>Applied Materials Today</i> , 2020 , 19, 100571	6.6	2
59	Progress of the key materials for organic solar cells. <i>Scientia Sinica Chimica</i> , 2020 , 50, 437-446	1.6	4
58	Over 16% efficiency from thick-film organic solar cells. <i>Science Bulletin</i> , 2020 , 65, 1979-1982	10.6	41
57	Photovoltaic Performance of Porphyrin-Based Dye-Sensitized Solar Cells with Binary Ionic Liquid Electrolytes. <i>Energy Technology</i> , 2020 , 8, 2000092	3.5	2
56	Ligand-Modulated Excess PbI Nanosheets for Highly Efficient and Stable Perovskite Solar Cells. <i>Advanced Materials</i> , 2020 , 32, e2000865	24	60
55	Alkoxythiophene and alkylthiothiophene bridges enhance the performance of AD ₂ electron acceptors. <i>Materials Chemistry Frontiers</i> , 2019 , 3, 492-495	7.8	16
54	Interface engineering gifts CsPbI _{2.25} Br _{0.75} solar cells high performance. <i>Science Bulletin</i> , 2019 , 64, 1743-1746	10.6	32
53	Comprehensive control of voltage loss enables 11.7% efficient solid-state dye-sensitized solar cells. <i>Energy and Environmental Science</i> , 2018 , 11, 1779-1787	35.4	112
52	Isomer-Pure Bis-PCBM-Assisted Crystal Engineering of Perovskite Solar Cells Showing Excellent Efficiency and Stability. <i>Advanced Materials</i> , 2017 , 29, 1606806	24	276
51	Atomically Altered Hematite for Highly Efficient Perovskite Tandem Water-Splitting Devices. <i>ChemSusChem</i> , 2017 , 10, 2449-2456	8.3	62

50	Over 20% PCE perovskite solar cells with superior stability achieved by novel and low-cost hole-transporting materials. <i>Nano Energy</i> , 2017 , 41, 469-475	17.1	191
49	Dopant-free star-shaped hole-transport materials for efficient and stable perovskite solar cells. <i>Dyes and Pigments</i> , 2017 , 136, 273-277	4.6	73
48	Dopant-Free Donor (D)-ED-ED Conjugated Hole-Transport Materials for Efficient and Stable Perovskite Solar Cells. <i>ChemSusChem</i> , 2016 , 9, 2578-2585	8.3	75
47	Polymer-templated nucleation and crystal growth of perovskite films for solar cells with efficiency greater than 21%. <i>Nature Energy</i> , 2016 , 1,	62.3	1422
46	Perovskite Photovoltaics with Outstanding Performance Produced by Chemical Conversion of Bilayer Mesostructured Lead Halide/TiO ₂ Films. <i>Advanced Materials</i> , 2016 , 28, 2964-70	24	140
45	A vacuum flash-assisted solution process for high-efficiency large-area perovskite solar cells. <i>Science</i> , 2016 , 353, 58-62	33.3	1406
44	A Novel Dopant-Free Triphenylamine Based Molecular Butterfly Hole-Transport Material for Highly Efficient and Stable Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2016 , 6, 1600401	21.8	152
43	Entropic stabilization of mixed A-cation ABX ₃ metal halide perovskites for high performance perovskite solar cells. <i>Energy and Environmental Science</i> , 2016 , 9, 656-662	35.4	882
42	Identifying Fundamental Limitations in Halide Perovskite Solar Cells. <i>Advanced Materials</i> , 2016 , 28, 2439-45	24	103
41	A novel one-step synthesized and dopant-free hole transport material for efficient and stable perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 16330-16334	13	78
40	Molecular Engineering of Potent Sensitizers for Very Efficient Light Harvesting in Thin-Film Solid-State Dye-Sensitized Solar Cells. <i>Journal of the American Chemical Society</i> , 2016 , 138, 10742-5	16.4	100
39	Improved performance and stability of perovskite solar cells by crystal crosslinking with alkylphosphonic acid ammonium chlorides. <i>Nature Chemistry</i> , 2015 , 7, 703-11	17.6	898
38	Enhancing the stability of porphyrin dye-sensitized solar cells by manipulation of electrolyte additives. <i>ChemSusChem</i> , 2015 , 8, 255-9	8.3	17
37	A hybrid electron donor comprising cyclopentadithiophene and dithiafulvenyl for dye-sensitized solar cells. <i>Beilstein Journal of Organic Chemistry</i> , 2015 , 11, 1052-9	2.5	10
36	Anthanthrene dye-sensitized solar cells: influence of the number of anchoring groups and substitution motif. <i>RSC Advances</i> , 2015 , 5, 98643-98652	3.7	10
35	Influence of the donor size in D- π -A organic dyes for dye-sensitized solar cells. <i>Journal of the American Chemical Society</i> , 2014 , 136, 5722-30	16.4	381
34	Quantum-confined ZnO nanoshell photoanodes for mesoscopic solar cells. <i>Nano Letters</i> , 2014 , 14, 1190-5	5.5	40
33	A quinoxaline-fused tetrathiafulvalene-based sensitizer for efficient dye-sensitized solar cells. <i>Chemical Communications</i> , 2014 , 50, 6540-2	5.8	59

32	Influence of structural variations in push-pull zinc porphyrins on photovoltaic performance of dye-sensitized solar cells. <i>ChemSusChem</i> , 2014 , 7, 1107-13	8.3	35
31	Regulating a benzodifuran single molecule redox switch via electrochemical gating and optimization of molecule/electrode coupling. <i>Journal of the American Chemical Society</i> , 2014 , 136, 8867-70	16.4	84
30	Electronic tuning effects via linkers in tetrathiafulvalene-based dyes. <i>New Journal of Chemistry</i> , 2014 , 38, 3269	3.6	19
29	Thiadiazolo[3,4-c]pyridine Acceptor Based Blue Sensitizers for High Efficiency Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 17090-17099	3.8	20
28	Extended Bridge in Organic Dye-Sensitized Solar Cells: the Longer, the Better?. <i>Advanced Energy Materials</i> , 2014 , 4, 1301485	21.8	55
27	Probing charge transfer in benzodifuran-C60 dumbbell-type electron donor-acceptor conjugates: ground- and excited-state assays. <i>ChemPhysChem</i> , 2013 , 14, 2910-9	3.2	8
26	Benzo[1,2-b:4,5-b']difuran-based sensitizers for dye-sensitized solar cells. <i>RSC Advances</i> , 2013 , 3, 19798	3.7	14
25	Evaluating the Critical Thickness of TiO ₂ Layer on Insulating Mesoporous Templates for Efficient Current Collection in Dye-Sensitized Solar Cells. <i>Advanced Functional Materials</i> , 2013 , 23, 2775-2781	15.6	55
24	A cobalt complex redox shuttle for dye-sensitized solar cells with high open-circuit potentials. <i>Nature Communications</i> , 2012 , 3, 631	17.4	498
23	A spectroscopic and computational study of a photoinduced cross-dehydrogenative coupling reaction of a stable semiquinone radical. <i>Chemistry - A European Journal</i> , 2012 , 18, 13605-8	4.8	3
22	Influence of Donor Groups of Organic Dye Sensitizers on Open-Circuit Voltage in Solid-State Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 1572-1578	3.8	59
21	Subnanometer Ga ₂ O ₃ tunnelling layer by atomic layer deposition to achieve 1.1 V open-circuit potential in dye-sensitized solar cells. <i>Nano Letters</i> , 2012 , 12, 3941-7	11.5	175
20	Avoiding diffusion limitations in cobalt(III/II)-tris(2,2'-bipyridine)-based dye-sensitized solar cells by tuning the mesoporous TiO ₂ film properties. <i>ChemPhysChem</i> , 2012 , 13, 2976-81	3.2	69
19	A new generation of platinum and iodine free efficient dye-sensitized solar cells. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 10631-9	3.6	77
18	Influence of the interfacial charge-transfer resistance at the counter electrode in dye-sensitized solar cells employing cobalt redox shuttles. <i>Energy and Environmental Science</i> , 2011 , 4, 4921	35.4	178
17	Tris(2-(1H-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. <i>Journal of the American Chemical Society</i> , 2011 , 133, 18042-5	16.4	630
16	Porphyrin-sensitized solar cells with cobalt (II/III)-based redox electrolyte exceed 12 percent efficiency. <i>Science</i> , 2011 , 334, 629-34	33.3	5284
15	Cyclopentadithiophene bridged donor-acceptor dyes achieve high power conversion efficiencies in dye-sensitized solar cells based on the tris-cobalt bipyridine redox couple. <i>ChemSusChem</i> , 2011 , 4, 591-4	8.3	307

14	Synthesis, structures, redox and photophysical properties of benzodifuran-functionalised pyrene and anthracene fluorophores. <i>Organic and Biomolecular Chemistry</i> , 2011 , 9, 6410-6	3.9	22
13	Versatile strategy to access fully functionalized benzodifurans: redox-active chromophores for the construction of extended pi-conjugated materials. <i>Journal of Organic Chemistry</i> , 2010 , 75, 3350-7	4.2	48
12	Benzodifuran-Based π -Conjugated Copolymers for Bulk Heterojunction Solar Cells. <i>Macromolecules</i> , 2010 , 43, 8058-8062	5.5	50
11	Isolable zwitterionic pyridinio-semiquinone pi-radicals. Mild and efficient single-step access to stable radicals. <i>Organic Letters</i> , 2009 , 11, 2261-4	6.2	8
10	Preparation of zwitterionic hydroquinone-fused [1,4]oxazinium derivatives via a photoinduced intramolecular dehydrogenative-coupling reaction. <i>Organic Letters</i> , 2009 , 11, 5530-3	6.2	9
9	Efficient and selective nickel(II)-catalyzed tail-to-head dimerization of styrenes affording 1,3-diaryl-1-butenes. <i>Catalysis Communications</i> , 2008 , 9, 85-88	3.2	16
8	An efficient and facile synthesis of highly substituted 2,6-dicyanoanilines. <i>Journal of Organic Chemistry</i> , 2008 , 73, 3596-9	4.2	28
7	A Layered Red-Emitting Chromophoric Organic Salt. <i>Crystal Growth and Design</i> , 2008 , 8, 3004-3009	3.5	11
6	An efficient one-pot synthesis of strongly fluorescent (hetero)arenes polysubstituted with amino and cyano groups. <i>Tetrahedron</i> , 2008 , 64, 9437-9441	2.4	7
5	Palladium-Catalyzed Efficient and One-Pot Synthesis of Diarylacetylenes from the Reaction of Aryl Chlorides with 2-Methyl-3-butyn-2-ol. <i>Advanced Synthesis and Catalysis</i> , 2007 , 349, 1738-1742	5.6	39
4	A copper-free efficient palladium (II)-catalyzed coupling of aryl bromides with terminal alkynes. <i>Catalysis Communications</i> , 2006 , 7, 377-379	3.2	39
3	Efficient copper-free PdCl ₂ (PCy ₃) ₂ -catalyzed Sonogashira coupling of aryl chlorides with terminal alkynes. <i>Journal of Organic Chemistry</i> , 2006 , 71, 2535-7	4.2	152
2	An efficient palladium-catalyzed Heck coupling of aryl chlorides with alkenes. <i>Tetrahedron Letters</i> , 2006 , 47, 2573-2576	2	39
1	Engineering of the alkyl chain branching point on a lactone polymer donor yields 17.81% efficiency. <i>Journal of Materials Chemistry A</i> ,	13	6