

Chenyi Yi

List of Publications by Citations

Source: <https://exaly.com/author-pdf/662040/chenyi-yi-publications-by-citations.pdf>

Version: 2024-04-25

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	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
66	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
65	A vacuum flash-assisted solution process for high-efficiency large-area perovskite solar cells. <i>Science</i> , 2016 , 353, 58-62	33.3	1406
64	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
63	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
62	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
61	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
60	Influence of the donor size in D-πA organic dyes for dye-sensitized solar cells. <i>Journal of the American Chemical Society</i> , 2014 , 136, 5722-30	16.4	381
59	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
58	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
57	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
56	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
55	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
54	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
53	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
52	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
51	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

50	Identifying Fundamental Limitations in Halide Perovskite Solar Cells. <i>Advanced Materials</i> , 2016 , 28, 2439-2445	10.3	103
49	Progress of the key materials for organic solar cells. <i>Science China Chemistry</i> , 2020 , 63, 758-765	7.9	101
48	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
47	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
46	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
45	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
44	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
43	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
42	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
41	Atomically Altered Hematite for Highly Efficient Perovskite Tandem Water-Splitting Devices. <i>ChemSusChem</i> , 2017 , 10, 2449-2456	8.3	62
40	Ligand-Modulated Excess PbI ₂ Nanosheets for Highly Efficient and Stable Perovskite Solar Cells. <i>Advanced Materials</i> , 2020 , 32, e2000865	24	60
39	A quinoxaline-fused tetrathiafulvalene-based sensitizer for efficient dye-sensitized solar cells. <i>Chemical Communications</i> , 2014 , 50, 6540-2	5.8	59
38	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
37	Extended π-Bridge in Organic Dye-Sensitized Solar Cells: the Longer, the Better?. <i>Advanced Energy Materials</i> , 2014 , 4, 1301485	21.8	55
36	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
35	Benzodifuran-Based π-Conjugated Copolymers for Bulk Heterojunction Solar Cells. <i>Macromolecules</i> , 2010 , 43, 8058-8062	5.5	50
34	Versatile strategy to access fully functionalized benzodifurans: redox-active chromophores for the construction of extended π-conjugated materials. <i>Journal of Organic Chemistry</i> , 2010 , 75, 3350-7	4.2	48
33	Over 16% efficiency from thick-film organic solar cells. <i>Science Bulletin</i> , 2020 , 65, 1979-1982	10.6	41

32	Quantum-confined ZnO nanoshell photoanodes for mesoscopic solar cells. <i>Nano Letters</i> , 2014 , 14, 1190-1195	5.5	40
31	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
30	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
29	An efficient palladium-catalyzed Heck coupling of aryl chlorides with alkenes. <i>Tetrahedron Letters</i> , 2006 , 47, 2573-2576	2	39
28	Influence of structural variations in push-pull zinc porphyrins on photovoltaic performance of dye-sensitized solar cells. <i>ChemSusChem</i> , 2014 , 7, 1107-113	8.3	35
27	Interface engineering gifts CsPbI ₂ . ₂₅ Br _{0.75} solar cells high performance. <i>Science Bulletin</i> , 2019 , 64, 1743-1746	10.746	32
26	An efficient and facile synthesis of highly substituted 2,6-dicyanoanilines. <i>Journal of Organic Chemistry</i> , 2008 , 73, 3596-9	4.2	28
25	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
24	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
23	Electronic tuning effects via linkers in tetrathiafulvalene-based dyes. <i>New Journal of Chemistry</i> , 2014 , 38, 3269	3.6	19
22	Enhancing the stability of porphyrin dye-sensitized solar cells by manipulation of electrolyte additives. <i>ChemSusChem</i> , 2015 , 8, 255-9	8.3	17
21	Alkoxythiophene and alkylthiothiophene bridges enhance the performance of AD ₂ electron acceptors. <i>Materials Chemistry Frontiers</i> , 2019 , 3, 492-495	7.8	16
20	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
19	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
18	2-CF ₃ -PEAI to eliminate Pb ⁰ 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
17	A Layered Red-Emitting Chromophoric Organic Salt. <i>Crystal Growth and Design</i> , 2008 , 8, 3004-3009	3.5	11
16	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
15	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

14	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
13	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
12	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
11	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
10	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
9	Water Stable Haloplumbate Modulation for Efficient and Stable Hybrid Perovskite Photovoltaics. <i>Advanced Energy Materials</i> , 2021 , 11, 2101082	21.8	6
8	Progress of the key materials for organic solar cells. <i>Scientia Sinica Chimica</i> , 2020 , 50, 437-446	1.6	4
7	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
6	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
5	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
4	Raman scattering obtained from laser excitation of MAPbI ₃ single crystal. <i>Applied Materials Today</i> , 2020 , 19, 100571	6.6	2
3	Photovoltaic Performance of Porphyrin-Based Dye-Sensitized Solar Cells with Binary Ionic Liquid Electrolytes. <i>Energy Technology</i> , 2020 , 8, 2000092	3.5	2
2	A chlorinated lactone polymer donor featuring high performance and low cost. <i>Journal of Semiconductors</i> , 2022 , 43, 050501	2.3	2
1	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