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List of Publications by Year in descending order

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92 papers	16,983 citations	50170 46 h-index	46693 89 g-index
96 all docs	96 docs citations	96 times ranked	11016 citing authors

#	Article	IF	Citations
1	Fine-Tuning Contact via Complexation for High-Performance Organic Solar Cells. CCS Chemistry, 2022, 4, 1087-1097.	4.6	12
2	Intrinsically inert hyperbranched interlayer for enhanced stability of organic solar cells. Science Bulletin, 2022, 67, 171-177.	4.3	20
3	Efficient room temperature catalytic synthesis of alternating conjugated copolymers via C-S bond activation. Nature Communications, 2022, 13, 144.	5.8	21
4	Twoâ€Dimensional Polycyclic Photovoltaic Molecule with Low Trap Density for Highâ€Performance Photocatalytic Hydrogen Evolution. Angewandte Chemie - International Edition, 2022, 61, .	7.2	25
5	Defectâ€Free Alternating Conjugated Polymers Enabled by Roomâ€Temperature Stille Polymerization. Angewandte Chemie - International Edition, 2022, 61, .	7.2	15
6	Nonâ€Radiative Recombination Energy Losses in Nonâ€Fullerene Organic Solar Cells. Advanced Functional Materials, 2022, 32, .	7.8	58
7	Exciton Binding Energy of Nonâ€Fullerene Electron Acceptors. Advanced Energy and Sustainability Research, 2022, 3, .	2.8	27
8	RÃ¼cktitelbild: Defectâ€Free Alternating Conjugated Polymers Enabled by Roomâ€Temperature Stille Polymerization (Angew. Chem. 16/2022). Angewandte Chemie, 2022, 134, .	1.6	0
9	Surface fluoride management for enhanced stability and efficiency of halide perovskite solar cells via a thermal evaporation method. Journal of Materials Chemistry A, 2022, 10, 12882-12889.	5.2	5
10	Enhancing Transition Dipole Moments of Heterocyclic Semiconductors via Rational Nitrogenâ€Substitution for Sensitive Near Infrared Detection. Advanced Materials, 2022, 34, e2201600.	11.1	19
11	Single photovoltaic material solar cells with enhanced exciton dissociation and extended electron diffusion. Cell Reports Physical Science, 2022, 3, 100895.	2.8	13
12	Revealing the Unusual Efficiency Enhancement of Organic Solar Cells with Polymer-Donor-Treated Cathode Contacts. Chinese Journal of Polymer Science (English Edition), 2022, 40, 937-943.	2.0	3
13	Organic Photovoltaic Catalyst with Extended Exciton Diffusion for High-Performance Solar Hydrogen Evolution. Journal of the American Chemical Society, 2022, 144, 12747-12755.	6.6	26
14	Revealing defective nanostructured surfaces and their impact on the intrinsic stability of hybrid perovskites. Energy and Environmental Science, 2021, 14, 1563-1572.	15.6	55
15	Crystallization in one-step solution deposition of perovskite films: Upward or downward?. Science Advances, 2021, 7, .	4.7	165
16	Organic photovoltaic electron acceptors showing aggregation-induced emission for reduced nonradiative recombination. Chemical Communications, 2021, 57, 5135-5138.	2.2	10
17	Metallic surface doping of metal halide perovskites. Nature Communications, 2021, 12, 7.	5.8	66
18	Planar heterojunctions for reduced non-radiative open-circuit voltage loss and enhanced stability of organic solar cells. Journal of Materials Chemistry C, 2021, 9, 11715-11721.	2.7	13

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19	Enhancing photovoltaic performance via aggregation dynamics control in fusedâ€ring electron acceptor. Aggregate, 2021, 2, e29.	5.2	10
20	An Electron Acceptor Analogue for Lowering Trap Density in Organic Solar Cells. Advanced Materials, 2021, 33, e2008134.	11.1	91
21	Co²⁺-Tuned Tin Oxide Interfaces for Enhanced Stability of Organic Solar Cells. Langmuir, 2021, 37, 3173-3179.	1.6	7
22	Perovskite solar cells with embedded homojunction via nonuniform metal ion doping. Cell Reports Physical Science, 2021, 2, 100415.	2.8	10
23	A Novel, Weakly Nâ€Doped Cathodeâ€Modifying Layer in Organic Solar Cells. Energy Technology, 2021, 9, 2100281.	1.8	10
24	Asymmetric Glycolated Substitution for Enhanced Permittivity and Ecocompatibility of High-Performance Photovoltaic Electron Acceptor. Jacs Au, 2021, 1, 1733-1742.	3.6	47
25	Pyrrolo[3,2-b]pyrrole-based fused-ring electron acceptors with strong near-infrared absorption beyond 1000Ânm. Dyes and Pigments, 2021, 195, 109705.	2.0	4
26	Stability: next focus in organic solar cells based on non-fullerene acceptors. Materials Chemistry Frontiers, 2021, 5, 2907-2930.	3.2	39
27	Low-cost materials for organic solar cells. Journal of Materials Chemistry C, 2021, 9, 15395-15406.	2.7	58
28	Lead-adsorbing ionogel-based encapsulation for impact-resistant, stable, and lead-safe perovskite modules. Science Advances, 2021, 7, eabi8249.	4.7	71
29	Passivated Metal Oxide n-Type Contacts for Efficient and Stable Organic Solar Cells. ACS Applied Energy Materials, 2020, 3, 1111-1118.	2.5	26
30	Organic Semiconductors for Vacuum-Deposited Planar Heterojunction Solar Cells. ACS Omega, 2020, 5, 24994-24999.	1.6	16
31	Selenium Heterocyclic Electron Acceptor with Small Urbach Energy for As-Cast High-Performance Organic Solar Cells. Journal of the American Chemical Society, 2020, 142, 18741-18745.	6.6	288
32	Simplified interconnection structure based on C60/SnO2-x for all-perovskite tandem solar cells. Nature Energy, 2020, 5, 657-665.	19.8	186
33	Nonfullerene Allâ€Smallâ€Molecule Organic Solar Cells: Prospect and Limitation. Solar Rrl, 2020, 4, 2000258.	3.1	43
34	An Alkoxyâ€Solubilizing Decacyclic Electron Acceptor for Efficient Ecofriendly Asâ€Cast Bladeâ€Coated Organic Solar Cells. Solar Rrl, 2020, 4, 2000108.	3.1	11
35	Fast Growth of Thin MAPbI₃ Crystal Wafers on Aqueous Solution Surface for Efficient Lateralâ€Structure Perovskite Solar Cells. Advanced Functional Materials, 2019, 29, 1807707.	7.8	62
36	Oligomeric Silica-Wrapped Perovskites Enable Synchronous Defect Passivation and Grain Stabilization for Efficient and Stable Perovskite Photovoltaics. ACS Energy Letters, 2019, 4, 1231-1240.	8.8	111

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37	Fused thienobenzene-thienothiophene electron acceptors for organic solar cells. Journal of Energy Chemistry, 2019, 37, 58-65.	7.1	7
38	Balanced Partnership between Donor and Acceptor Components in Nonfullerene Organic Solar Cells with >12% Efficiency. Advanced Materials, 2018, 30, e1706363.	11.1	172
39	Argon Plasma Treatment to Tune Perovskite Surface Composition for High Efficiency Solar Cells and Fast Photodetectors. Advanced Materials, 2018, 30, 1705176.	11.1	81
40	Bayâ€annulated indigo based nearâ€infrared sensitive polymer for organic solar cells. Journal of Polymer Science Part A, 2018, 56, 213-220.	2.5	6
41	Naphthodithiopheneâ€Based Nonfullerene Acceptor for Highâ€Performance Organic Photovoltaics: Effect of Extended Conjugation. Advanced Materials, 2018, 30, 1704713.	11.1	199
42	Enhancing the performance of a fused-ring electron acceptor via extending benzene to naphthalene. Journal of Materials Chemistry C, 2018, 6, 66-71.	2.7	38
43	Excess charge-carrier induced instability of hybrid perovskites. Nature Communications, 2018, 9, 4981.	5.8	159
44	Dual Functions of Crystallization Control and Defect Passivation Enabled by Sulfonic Zwitterions for Stable and Efficient Perovskite Solar Cells. Advanced Materials, 2018, 30, e1803428.	11.1	296
45	Alkoxy-Induced Near-Infrared Sensitive Electron Acceptor for High-Performance Organic Solar Cells. Chemistry of Materials, 2018, 30, 4150-4156.	3.2	79
46	Matching Charge Extraction Contact for Wideâ€Bandgap Perovskite Solar Cells. Advanced Materials, 2017, 29, 1700607.	11.1	178
47	Ï€â€Conjugated Lewis Base: Efficient Trapâ€Passivation and Chargeâ€Extraction for Hybrid Perovskite Solar Cells. Advanced Materials, 2017, 29, 1604545.	11.1	543
48	Unraveling the High Open Circuit Voltage and High Performance of Integrated Perovskite/Organic Bulk-Heterojunction Solar Cells. Nano Letters, 2017, 17, 5140-5147.	4.5	78
49	Discrete Iron(III) Oxide Nanoislands for Efficient and Photostable Perovskite Solar Cells. Advanced Functional Materials, 2017, 27, 1702090.	7.8	79
50	Defect passivation in hybrid perovskite solar cells using quaternary ammonium halide anions andÂcations. Nature Energy, 2017, 2, .	19.8	1,694
51	Nonfullerene acceptor with strong near-infrared absorption for polymer solar cells. Dyes and Pigments, 2017, 137, 553-559.	2.0	14
52	Mapping Polymer Donors toward Highâ€Efficiency Fullerene Free Organic Solar Cells. Advanced Materials, 2017, 29, 1604155.	11.1	360
53	Highly Sensitive Organic Photodetectors with Tunable Spectral Response under Biâ€Directional Bias. Advanced Optical Materials, 2016, 4, 1711-1717.	3.6	75
54	Effect of Alkyl Side Chains of Conjugated Polymer Donors on the Device Performance of Non-Fullerene Solar Cells. Macromolecules, 2016, 49, 6445-6454.	2.2	76

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55	Structure Evolution of Oligomer Fusedâ€Ring Electron Acceptors toward High Efficiency of Asâ€Cast Polymer Solar Cells. Advanced Energy Materials, 2016, 6, 1600854.	10.2	152
56	Influence of Thiophene Moiety on the Excited State Properties of Pushâ€“Pull Chromophores. Journal of Physical Chemistry C, 2016, 120, 13922-13930.	1.5	14
57	Roll-coating fabrication of flexible organic solar cells: comparison of fullerene and fullerene-free systems. Journal of Materials Chemistry A, 2016, 4, 1044-1051.	5.2	84
58	High-Performance Electron Acceptor with Thienyl Side Chains for Organic Photovoltaics. Journal of the American Chemical Society, 2016, 138, 4955-4961.	6.6	915
59	Cracking perylene diimide backbone for fullerene-free polymer solar cells. Dyes and Pigments, 2016, 128, 226-234.	2.0	18
60	A Facile Planar Fused-Ring Electron Acceptor for As-Cast Polymer Solar Cells with 8.71% Efficiency. Journal of the American Chemical Society, 2016, 138, 2973-2976.	6.6	885
61	Monodisperse macromolecules based on benzodithiophene and diketopyrrolopyrrole with strong NIR absorption and high mobility. Journal of Materials Chemistry C, 2016, 4, 3781-3791.	2.7	22
62	Efficient fullerene-free organic solar cells based on fused-ring oligomer molecules. Journal of Materials Chemistry A, 2016, 4, 1486-1494.	5.2	48
63	Oligomer Molecules for Efficient Organic Photovoltaics. Accounts of Chemical Research, 2016, 49, 175-183.	7.6	560
64	Designing Efficient Nonâ€Fullerene Acceptors by Tailoring Extended Fusedâ€Rings with Electronâ€Deficient Groups. Advanced Energy Materials, 2015, 5, 1501063.	10.2	203
65	Perylene and naphthalene diimide polymers for all-polymer solar cells: a comparative study of chemical copolymerization and physical blend. Polymer Chemistry, 2015, 6, 5254-5263.	1.9	47
66	An Electron Acceptor Challenging Fullerenes for Efficient Polymer Solar Cells. Advanced Materials, 2015, 27, 1170-1174.	11.1	3,365
67	Spirobifluorene-based acceptors for polymer solar cells: Effect of isomers. Dyes and Pigments, 2015, 123, 16-25.	2.0	16
68	Oligothiophene-bridged perylene diimide dimers for fullerene-free polymer solar cells: effect of bridge length. Journal of Materials Chemistry A, 2015, 3, 13000-13010.	5.2	45
69	High-performance fullerene-free polymer solar cells with 6.31% efficiency. Energy and Environmental Science, 2015, 8, 610-616.	15.6	587
70	Perylene diimideâ€“thienylenevinylene-based small molecule and polymer acceptors for solution-processed fullerene-free organic solarÂcells. Dyes and Pigments, 2015, 114, 283-289.	2.0	28
71	Solar Cells: A Starâ€Shaped Perylene Diimide Electron Acceptor for Highâ€Performance Organic Solar Cells (Adv. Mater. 30/2014). Advanced Materials, 2014, 26, 5224-5224.	11.1	3
72	Smallâ€Molecule Solar Cells with Fill Factors up to 0.75 via a Layerâ€byâ€Layer Solution Process. Advanced Energy Materials, 2014, 4, 1300626.	10.2	90

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73	A Twisted Dimeric Perylene Diimide Electron Acceptor for Efficient Organic Solar Cells. Advanced Energy Materials, 2014, 4, 1400420.	10.2	126
74	Comparison of additive amount used in spin-coated and roll-coated organic solar cells. Journal of Materials Chemistry A, 2014, 2, 19542-19549.	5.2	36
75	Non-fullerene acceptors for organic photovoltaics: an emerging horizon. Materials Horizons, 2014, 1, 470.	6.4	694
76	A Starâ€Shaped Perylene Diimide Electron Acceptor for Highâ€Performance Organic Solar Cells. Advanced Materials, 2014, 26, 5137-5142.	11.1	390
77	Ambient roll-to-roll fabrication of flexible solar cells based on small molecules. Journal of Materials Chemistry C, 2013, 1, 8007.	2.7	59
78	One, two and three-branched triphenylamineâ€“oligothiophene hybrids for solution-processed solar cells. Journal of Materials Chemistry A, 2013, 1, 5128.	5.2	41
79	A star-shaped electron acceptor based on 5,5â€²-bibenzothiadiazole for solution processed solar cells. Journal of Materials Chemistry A, 2013, 1, 14627.	5.2	38
80	Evolved structure of thiazolothiazole based small molecules towards enhanced efficiency in organic solar cells. Organic Electronics, 2013, 14, 599-606.	1.4	45
81	A Solutionâ€Processable Electron Acceptor Based on Dibenzosilole and Diketopyrrolopyrrole for Organic Solar Cells. Advanced Energy Materials, 2013, 3, 724-728.	10.2	161
82	A Solutionâ€Processable Small Molecule Based on Benzodithiophene and Diketopyrrolopyrrole for Highâ€Performance Organic Solar Cells. Advanced Energy Materials, 2013, 3, 1166-1170.	10.2	203
83	A star-shaped oligothiophene end-capped with alkyl cyanoacetate groups for solution-processed organic solar cells. Chemical Communications, 2012, 48, 9655.	2.2	70
84	A 3D star-shaped non-fullerene acceptor for solution-processed organic solar cells with a high open-circuit voltage of 1.18 V. Chemical Communications, 2012, 48, 4773.	2.2	281
85	Small molecule semiconductors for high-efficiency organic photovoltaics. Chemical Society Reviews, 2012, 41, 4245.	18.7	1,601
86	Thiazoleâ€Based Organic Semiconductors for Organic Electronics. Advanced Materials, 2012, 24, 3087-3106.	11.1	288
87	Small molecules based on bithiazole for solution-processed organic solar cells. Organic Electronics, 2012, 13, 673-680.	1.4	36
88	Conjugated Polymers Based on a New Building Block: Dithienophthalimide. Macromolecules, 2011, 44, 4213-4221.	2.2	36
89	Defectâ€Free Alternating Conjugated Polymers Enabled by Roomâ€Temperature Stille Polymerization. Angewandte Chemie, 0, , .	1.6	0
90	Twoâ€Dimensional Polycyclic Photovoltaic Molecule with Low Trap Density for Highâ€Performance Photocatalytic Hydrogen Evolution. Angewandte Chemie, 0, , .	1.6	4

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91	Vacuumâ€Assisted Thermal Annealing of CsPbI ₃ for Highly Stable and Efficient Inorganic Perovskite Solar Cells. Angewandte Chemie, 0, , .	1.6	0
92	Effects of Thieno[3,2-b]thiophene Number on Narrow-Bandgap Fused-Ring Electron Acceptors. Chinese Journal of Polymer Science (English Edition), 0, , .	2.0	1