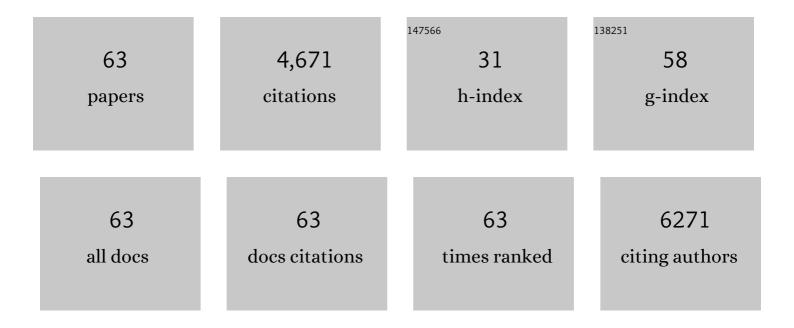
List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Semi-crystalline photovoltaic polymers with efficiency exceeding 9% in a â^¼300 nm thick conventional single-cell device. Energy and Environmental Science, 2014, 7, 3040-3051.	15.6	600
2	Versatile surface plasmon resonance of carbon-dot-supported silver nanoparticles in polymer optoelectronic devices. Nature Photonics, 2013, 7, 732-738.	15.6	501
3	Smallâ€Bandgap Polymer Solar Cells with Unprecedented Shortâ€Circuit Current Density and High Fill Factor. Advanced Materials, 2015, 27, 3318-3324.	11.1	294
4	Multipositional Silica-Coated Silver Nanoparticles for High-Performance Polymer Solar Cells. Nano Letters, 2013, 13, 2204-2208.	4.5	244
5	The role of charge recombination to triplet excitons in organic solar cells. Nature, 2021, 597, 666-671.	13.7	225
6	Capillary Printing of Highly Aligned Silver Nanowire Transparent Electrodes for High-Performance Optoelectronic Devices. Nano Letters, 2015, 15, 7933-7942.	4.5	196
7	Side-Chain Engineering of Nonfullerene Acceptors for Near-Infrared Organic Photodetectors and Photovoltaics. ACS Energy Letters, 2019, 4, 1401-1409.	8.8	182
8	Solutionâ€Processed Semitransparent Organic Photovoltaics: From Molecular Design to Device Performance. Advanced Materials, 2019, 31, e1900904.	11.1	168
9	Amineâ€Based Polar Solvent Treatment for Highly Efficient Inverted Polymer Solar Cells. Advanced Materials, 2014, 26, 494-500.	11.1	159
10	Interplay of Intramolecular Noncovalent Coulomb Interactions for Semicrystalline Photovoltaic Polymers. Chemistry of Materials, 2015, 27, 5997-6007.	3.2	150
11	Highly Efficient Polymer Light-Emitting Diodes Using Graphene Oxide as a Hole Transport Layer. ACS Nano, 2012, 6, 2984-2991.	7.3	127
12	Bandgap Narrowing in Nonâ€Fullerene Acceptors: Single Atom Substitution Leads to High Optoelectronic Response Beyond 1000 nm. Advanced Energy Materials, 2018, 8, 1801212.	10.2	125
13	Quantifying the Nongeminate Recombination Dynamics in Nonfullerene Bulk Heterojunction Organic Solar Cells. Advanced Energy Materials, 2019, 9, 1901438.	10.2	115
14	Semicrystalline D–A Copolymers with Different Chain Curvature for Applications in Polymer Optoelectronic Devices. Macromolecules, 2014, 47, 1604-1612.	2.2	95
15	Design of Nonfullerene Acceptors with Nearâ€Infrared Light Absorption Capabilities. Advanced Energy Materials, 2018, 8, 1801209.	10.2	95
16	An Organic Surface Modifier to Produce a High Work Function Transparent Electrode for High Performance Polymer Solar Cells. Advanced Materials, 2015, 27, 892-896.	11.1	94
17	Synthesis of PCDTBT-Based Fluorinated Polymers for High Open-Circuit Voltage in Organic Photovoltaics: Towards an Understanding of Relationships between Polymer Energy Levels Engineering and Ideal Morphology Control. ACS Applied Materials & Interfaces, 2014, 6, 7523-7534.	4.0	88
18	Investigation of Charge Carrier Behavior in High Performance Ternary Blend Polymer Solar Cells. Advanced Energy Materials, 2016, 6, 1600637.	10.2	85

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19	High-efficiency photovoltaic cells with wide optical band gap polymers based on fluorinated phenylene-alkoxybenzothiadiazole. Energy and Environmental Science, 2017, 10, 1443-1455.	15.6	84
20	Redox-active charge carriers of conducting polymers as a tuner of conductivity and its potential window. Scientific Reports, 2013, 3, 2454.	1.6	70
21	Highly efficient plasmonic organic optoelectronic devices based on a conducting polymer electrode incorporated with silver nanoparticles. Energy and Environmental Science, 2013, 6, 1949.	15.6	69
22	Quantifying and Understanding Voltage Losses Due to Nonradiative Recombination in Bulk Heterojunction Organic Solar Cells with Low Energetic Offsets. Advanced Energy Materials, 2019, 9, 1901077.	10.2	69
23	Improved Performance in Polymer Solar Cells Using Mixed PC ₆₁ BM/PC ₇₁ BM Acceptors. Advanced Energy Materials, 2015, 5, 1401687.	10.2	63
24	Measuring the competition between bimolecular charge recombination and charge transport in organic solar cells under operating conditions. Energy and Environmental Science, 2018, 11, 3019-3032.	15.6	59
25	A universal processing additive for high-performance polymer solar cells. RSC Advances, 2017, 7, 7476-7482.	1.7	58
26	Boosting the efficiency of quasi-2D perovskites light-emitting diodes by using encapsulation growth method. Nano Energy, 2021, 80, 105511.	8.2	54
27	Design of narrow bandgap non-fullerene acceptors for photovoltaic applications and investigation of non-geminate recombination dynamics. Journal of Materials Chemistry C, 2020, 8, 15175-15182.	2.7	50
28	Quinoxaline–thiophene based thick photovoltaic devices with an efficiency of â^1⁄48%. Journal of Materials Chemistry A, 2016, 4, 9967-9976.	5.2	49
29	Photocurrent Extraction Efficiency near Unity in a Thick Polymer Bulk Heterojunction. Advanced Functional Materials, 2016, 26, 3324-3330.	7.8	48
30	Plasmonic Transition via Interparticle Coupling of Au@Ag Core–Shell Nanostructures Sheathed in Double Hydrophilic Block Copolymer for High-Performance Polymer Solar Cell. Chemistry of Materials, 2015, 27, 4789-4798.	3.2	39
31	High-yield synthesis of single-crystal silicon nanoparticles as anode materials of lithium ion batteries via photosensitizer-assisted laser pyrolysis. Journal of Materials Chemistry A, 2014, 2, 18070-18075.	5.2	32
32	Effective Dark Current Suppression for High-Detectivity Organic Near-Infrared Photodetectors Using a Non-Fullerene Acceptor. ACS Applied Materials & Interfaces, 2021, 13, 11144-11150.	4.0	32
33	Multifunctional quinoxaline containing small molecules with multiple electron-donating moieties: Solvatochromic and optoelectronic properties. Synthetic Metals, 2012, 162, 1169-1176.	2.1	31
34	Optimal top electrodes for inverted polymer solar cells. Physical Chemistry Chemical Physics, 2015, 17, 2152-2159.	1.3	27
35	Acid-functionalized fullerenes used as interfacial layer materials in inverted polymer solar cells. Organic Electronics, 2013, 14, 3138-3145.	1.4	25
36	Aesthetic and colorful: Dichroic polymer solar cells using high-performance Fabry-Pérot etalon electrodes with a unique Sb2O3 cavity. Nano Energy, 2020, 77, 105146.	8.2	25

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37	Temperature and Light Modulated Open ircuit Voltage in Nonfullerene Organic Solar Cells with Different Effective Bandgaps. Advanced Energy Materials, 2021, 11, 2003091.	10.2	23
38	Recent progress of ultra-narrow-bandgap polymer donors for NIR-absorbing organic solar cells. Nanoscale Advances, 2021, 3, 4306-4320.	2.2	22
39	Size tailoring of aqueous germanium nanoparticle dispersions. Nanoscale, 2014, 6, 10156-10160.	2.8	21
40	Hall of Fame Article: Solution-Processed Semitransparent Organic Photovoltaics: From Molecular Design to Device Performance (Adv. Mater. 30/2019). Advanced Materials, 2019, 31, 1970219.	11.1	21
41	Synergistic photocurrent addition in hybrid quantum dot: Bulk heterojunction solar cells. Nano Energy, 2015, 13, 491-499.	8.2	18
42	Composite Interlayer Consisting of Alcohol-Soluble Polyfluorene and Carbon Nanotubes for Efficient Polymer Solar Cells. ACS Applied Materials & Interfaces, 2020, 12, 14244-14253.	4.0	17
43	Multifunctional Conjugated Polymers with Main hain Donors and Side hain Acceptors for Dye Sensitized Solar Cells (DSSCs) and Organic Photovoltaic Cells (OPVs). Macromolecular Rapid Communications, 2011, 32, 1809-1814.	2.0	16
44	Benzodithiophene-thiophene-based photovoltaic polymers with different side-chains. Journal of Polymer Science Part A, 2015, 53, 854-862.	2.5	15
45	Roll-to-roll compatible quinoxaline-based polymers toward high performance polymer solar cells. Journal of Materials Chemistry A, 2020, 8, 25208-25216.	5.2	14
46	Synthesis of the pyrrolo[3,2-b]pyrrole-based copolymer with enhanced open circuit voltage. Synthetic Metals, 2012, 162, 2288-2293.	2.1	13
47	Improved photovoltaic performance of quinoxaline-based polymers by systematic modulation of electron-withdrawing substituents. Journal of Materials Chemistry C, 2022, 10, 10338-10346.	2.7	10
48	Modeling and implementation of tandem polymer solar cells using wideâ€bandgap front cells. , 2020, 2, 131-142.		9
49	Dithieno[3,2â€ <i>b</i> :2′,3′â€ <i>d</i>]pyrrole and Benzothiadiazoleâ€Based Semicrystalline Copolymer fc Photovoltaic Devices with Indene ₆₀ Bisadduct. Macromolecular Chemistry and Physics, 2013, 214, 2083-2090.	or 1.1	7
50	Molecular engineering of conjugated polymers for solar cells and fieldâ€effect transistors: Sideâ€chain versus mainâ€chain electron acceptors. Journal of Polymer Science Part A, 2012, 50, 271-279.	2.5	6
51	Semi-crystalline A1–D–A2-type copolymers for efficient polymer solar cells. Polymer Journal, 2017, 49, 141-148.	1.3	6
52	Morphological and Optical Engineering for High-Performance Polymer Solar Cells. ACS Applied Materials & Interfaces, 2019, 11, 4705-4711.	4.0	6
53	Eco-compatible and highly efficient organic solar cells with an aggregation-controlled terpolymer strategy. Journal of Materials Chemistry A, 2021, 9, 27551-27559.	5.2	6
54	Vapor Coating Method Using Small-Molecule Organic Surface Modifiers to Replace N-Type Metal Oxide Layers in Inverted Polymer Solar Cells. ACS Applied Materials & Interfaces, 2014, 6, 6504-6509.	4.0	4

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55	Microwave-Assisted Synthesis of Non-Fullerene Acceptors and Their Photovoltaic Studies for High-Performance Organic Solar Cells. ACS Applied Energy Materials, 2021, 4, 9816-9826.	2.5	3
56	Low Voltage‣oss Organic Solar Cells Light the Way for Efficient Semitransparent Photovoltaics. Solar Rrl, 2022, 6, .	3.1	3
57	Synthesis of a conjugated copolymer with benzodithiophene and benzimidazole units. Polymer Journal, 2013, 45, 555-559.	1.3	1
58	Synthesis of the Copolymer Based on Diketopyrrolopyrrole with Didecyl Chain for OPVs. Molecular Crystals and Liquid Crystals, 2014, 600, 88-98.	0.4	1
59	New 3, 8â€difluoro indoloindoleâ€based copolymers for organic solar cell. International Journal of Energy Research, 2021, 45, 7806-7813.	2.2	1
60	Influence of an Amide-Functionalized Monomeric Unit on the Morphology and Electronic Properties of Non-Fullerene Polymer Solar Cells. International Journal of Precision Engineering and Manufacturing - Green Technology, 0, , 1.	2.7	1
61	Solar Cells: Investigation of Charge Carrier Behavior in High Performance Ternary Blend Polymer Solar Cells (Adv. Energy Mater. 19/2016). Advanced Energy Materials, 2016, 6, .	10.2	0
62	Pyrrolo[3,2-b]pyrrole-Based Copolymers as Donor Materials for Organic Photovoltaics. Bulletin of the Korean Chemical Society, 2013, 34, 3399-3404.	1.0	0
63	Significant Dark Current Suppression in Organic Photodetectors Using Side Chain Fluorination of Conjugated Polymer (Adv. Funct. Mater. 4/2022). Advanced Functional Materials, 2022, 32, .	7.8	Ο