Lingpeng Yan

List of Publications by Year
in descending order

31 papers	1,477 citations	516710 16 h-index	434195 31 g-index
32 all docs	32 docs citations	32 times ranked	1547 citing authors

#	Article	IF	Citations
1	Simultaneously Achieving Highly Efficient and Stable Polymer:Nonâ€Fullerene Solar Cells Enabled By Molecular Structure Optimization and Surface Passivation. Advanced Science, 2022, 9, e2104588.	11.2	28
2	Recent progress in organic solar cells (Part I material science). Science China Chemistry, 2022, 65, 224-268.	8.2	349
3	Recent progress in organic solar cells (Part II device engineering). Science China Chemistry, 2022, 65, 1457-1497.	8.2	157
4	High Power Conversion Efficiency of 13.61% for 1 cm² Flexible Polymer Solar Cells Based on Patternable and Massâ€Producible Gravureâ€Printed Silver Nanowire Electrodes. Advanced Functional Materials, 2021, 31, 2007276.	14.9	55
5	Degradation of Polymer Solar Cells: Knowledge Learned from the Polymer:Fullerene Solar Cells. Energy Technology, 2021, 9, 2000920.	3.8	10
6	Synthesis, molecular structure and photovoltaic performance for polythiophenes with Î²-carboxylate side chains. Journal of Polymer Research, 2021, 28, 1.	2.4	1
7	Cyclopentadithiophene cored A-Ï€-D-Ï€-A non-fullerene electron acceptor in ternary polymer solar cells to extend the light absorption up to 900â€¯nm. Organic Electronics, 2020, 77, 105530.	2.6	5
8	Hybrid Hole Extraction Layer Enabled High Efficiency in Polymer Solar Cells. ACS Applied Materials & Interfaces, 2020, 12, 55342-55348.	8.0	3
9	Revealing the Interfacial Photoreduction of MoO₃ with P3HT from the Molecular Weight-Dependent â€œBurn-Inâ€• Degradation of P3HT:PC₆₁BM Solar Cells. ACS Applied Energy Materials, 2020, 3, 9714-9723.	5.1	13
10	Simultaneous Performance and Stability Improvement of Ternary Polymer Solar Cells Enabled by Modulating the Molecular Packing of Acceptors. Solar Rrl, 2020, 4, 2000374.	5.8	15
11	Zinc Oxide Coated Carbon Dot Nanoparticles as Electron Transport Layer for Inverted Polymer Solar Cells. ACS Applied Energy Materials, 2020, 3, 11388-11397.	5.1	16
12	Organic Amines as Targeting Stabilizer at the Polymer/Fullerene Interface for Polymer:PC 61 BM Solar Cells. Energy Technology, 2020, 8, 2000266.	3.8	8
13	The Role of the Hydrogen Bond between Piperazine and Fullerene Molecules in Stabilizing Polymer:Fullerene Solar Cell Performance. ACS Applied Materials & Interfaces, 2020, 12, 15472-15481.	8.0	15
14	The interfacial degradation mechanism of polymer:fullerene bis-adduct solar cells and their stability improvement. Materials Advances, 2020, 1, 1307-1317.	5.4	9
15	Efficiency above 12% for 1 cm² Flexible Organic Solar Cells with Ag/Cu Grid Transparent Conducting Electrode. Advanced Science, 2019, 6, 1901490.	11.2	58
16	12.88% efficiency in doctor-blade coated organic solar cells through optimizing the surface morphology of a ZnO cathode buffer layer. Journal of Materials Chemistry A, 2019, 7, 212-220.	10.3	70
17	Simultaneous performance and stability improvement of polymer:fullerene solar cells by doping with piperazine. Journal of Materials Chemistry A, 2019, 7, 7099-7108.	10.3	20
18	Synthesis of N,S-Doped Carbon Quantum Dots for Use in Organic Solar Cells as the ZnO Modifier To Eliminate the Light-Soaking Effect. ACS Applied Materials & Interfaces, 2019, 11, 2243-2253.	8.0	94

#	Article	IF	Citations
19	Fluorescent carbon quantum dots synthesized by chemical vapor deposition: An alternative candidate for electron acceptor in polymer solar cells. Optical Materials, 2018, 75, 166-173.	3.6	40
20	Fully solution processed semi-transparent perovskite solar cells with spray-coated silver nanowires/ZnO composite top electrode. Solar Energy Materials and Solar Cells, 2018, 185, 399-405.	6.2	111
21	Silane-Capped ZnO Nanoparticles for Use as the Electron Transport Layer in Inverted Organic Solar Cells. ACS Nano, 2018, 12, 5518-5529.	14.6	101
22	External load-dependent degradation of P3HT:PC₆₁BM solar cells: behavior, mechanism, and method of suppression. Journal of Materials Chemistry A, 2017, 5, 10010-10020.	10.3	26
23	Effect of the Ï€-conjugation length on the properties and photovoltaic performance of Aâ€“Ï€â€“Dâ€“Ï€â€“A type oligothiophenes with a 4,8-bis(thienyl)benzo[1,2-<i>b</i>:4,5-<i>b</i>â€²]dithiophene core. Beilstein Journal of Organic Chemistry, 2016, 12, 1788-1797.	2.2	23
24	Deposition of Ag nanoparticles on carbon microspheres surface: Evaluation of structures, electrochemical and optical properties. Journal Wuhan University of Technology, Materials Science Edition, 2016, 31, 743-749.	1.0	0
25	Synthesis of carbon quantum dots by chemical vapor deposition approach for use in polymer solar cell as the electrode buffer layer. Carbon, 2016, 109, 598-607.	10.3	70
26	Photoluminescent carbon quantum dots as a directly film-forming phosphor towards white LEDs. Nanoscale, 2016, 8, 8618-8632.	5.6	129
27	Optical properties of the composite film from P3HT and hydrothermally synthesized porous carbon nanospheres. Journal of Materials Research, 2015, 30, 1599-1610.	2.6	1
28	P3HT/Dodecylamine Functioned Carbon Microspheres Composite Films for Polymer Solar Cells. Fullerenes Nanotubes and Carbon Nanostructures, 2015, 23, 549-556.	2.1	9
29	Low-Temperature Hydrothermal Synthesis of Green Luminescent Carbon Quantum Dots (CQD), and Optical Properties of Blends of the CQD with Poly(3-hexylthiophene). Journal of Electronic Materials, 2015, 44, 3436-3443.	2.2	30
30	Synthesis and optical properties of composite films from P3HT and sandwich-like Agâ€“Câ€“Ag nanoparticles. RSC Advances, 2015, 5, 79860-79867.	3.6	7
31	Spin-coated P3HT:Aminated carbon microsphere composite films for polymer solar cells. Journal of Materials Research, 2014, 29, 492-500.	2.6	3