Han Yan

List of Publications by Year
in descending order

38 papers	1,053 citations	430874 18 h-index	414414 32 g-index
38 all docs	38 docs citations	38 times ranked	1911 citing authors

#	Article	IF	Citations
1	Chemically Addressable Perovskite Nanocrystals for Lightâ€Emitting Applications. Advanced Materials, 2017, 29, 1701153.	21.0	139
2	Increasing Polymer Solar Cell Fill Factor by Trapâ€Filling with F4â€TCNQ at Parts Per Thousand Concentration. Advanced Materials, 2016, 28, 6491-6496.	21.0	85
3	Thionation Enhances the Electron Mobility of Perylene Diimide for High Performance nâ€Channel Organic Field Effect Transistors. Advanced Functional Materials, 2015, 25, 3321-3329.	14.9	76
4	Controlled Synthesis of Fully Ï€-Conjugated Donorâ€“Acceptor Block Copolymers Using a Ni(II) Diimine Catalyst. ACS Macro Letters, 2014, 3, 671-674.	4.8	65
5	Lewis Acid Doping Induced Synergistic Effects on Electronic and Morphological Structure for Donor and Acceptor in Polymer Solar Cells. Advanced Energy Materials, 2018, 8, 1703672.	19.5	59
6	Integrated Energy-Harvesting System by Combining the Advantages of Polymer Solar Cells and Thermoelectric Devices. Journal of Physical Chemistry C, 2013, 117, 24685-24691.	3.1	54
7	Doping Poly(3-hexylthiophene) Nanowires with Selenophene Increases the Performance of Polymer-Nanowire Solar Cells. Chemistry of Materials, 2014, 26, 4605-4611.	6.7	51
8	Increasing Quantum Efficiency of Polymer Solar Cells with Efficient Exciton Splitting and Long Carrier Lifetime by Molecular Doping at Heterojunctions. ACS Energy Letters, 2019, 4, 1356-1363.	17.4	45
9	Bis(tri-n-alkylsilyl oxide) silicon phthalocyanines: a start to establishing a structure property relationship as both ternary additives and non-fullerene electron acceptors in bulk heterojunction organic photovoltaic devices. Journal of Materials Chemistry A, 2017, 5, 12168-12182.	10.3	41
10	A facile strategy to enhance absorption coefficient and photovoltaic performance of two-dimensional benzo[1,2-b:4,5-bâ€²]dithiophene and thieno[3,4-c]pyrrole-4,6-dione polymers via subtle chemical structure variations. Organic Electronics, 2013, 14, 2652-2661.	2.6	35
11	Self-assembly of two-dimensional nanostructures of linear regioregular poly(3-hexylthiophene). RSC Advances, 2012, 2, 338-343.	3.6	34
12	Significance of Dopant/Component Miscibility to Efficient N-Doping in Polymer Solar Cells. ACS Applied Materials & Interfaces, 2020, 12, 13021-13028.	8.0	33
13	Self-Assembly of Well-Defined Poly(3-hexylthiophene) Nanostructures toward the Structureâ€“Property Relationship Determination of Polymer Solar Cells. Journal of Physical Chemistry C, 2012, 116, 23858-23863.	3.1	31
14	Adding Amorphous Content to Highly Crystalline Polymer Nanowire Solar Cells Increases Performance. Advanced Materials, 2015, 27, 3484-3491.	21.0	29
15	Selfâ€Assembly of Graphenelike ZnO Superstructured Nanosheets and Their Application in Hybrid Photoconductors. Small, 2011, 7, 3472-3478.	10.0	22
16	Improving the performance of polymer solar cells by altering polymer side chains and optimizing film morphologies. Organic Electronics, 2012, 13, 3234-3243.	2.6	19
17	Probe and Control of the Tiny Amounts of Dopants in BHJ Film Enable Higher Performance of Polymer Solar Cells. ACS Applied Materials & Interfaces, 2020, 12, 25115-25124.	8.0	19
18	Identifying the Electrostatic and Entropyâ€Related Mechanisms for Chargeâ€Transfer Exciton Dissociation at Doped Organic Heterojunctions. Advanced Functional Materials, 2021, 31, 2101892.	14.9	19

#	Article	IF	Citations
19	Self-Assembling Branched and Hyperbranched Nanostructures of Poly(3-hexylthiophene) by a Solution Process. Journal of Physical Chemistry C, 2011, 115, 3257-3262.	3.1	18
20	A facile strategy to enhance the fill factor of ternary blend solar cells by increasing charge carrier mobility. New Journal of Chemistry, 2013, 37, 1728.	2.8	18
21	Molecular Doping Efficiency in Organic Semiconductors: Fundamental Principle and Promotion Strategy. Advanced Functional Materials, 2022, 32, .	14.9	18
22	Achieving High Doping Concentration by Dopant Vapor Deposition in Organic Solar Cells. ACS Applied Materials & Interfaces, 2019, 11, 4178-4184.	8.0	17
23	Rational Design of Ternary-Phase Polymer Solar Cells by Controlling Polymer Phase Separation. Journal of Physical Chemistry C, 2014, 118, 10552-10559.	3.1	16
24	Conjugated Polymers with Switchable Carrier Polarity. Macromolecules, 2015, 48, 5587-5595.	4.8	15
25	Unusual Performance Increase in Polymer Solar Cells by Cooling a Hot Donor/Acceptor Ink in a Good Solvent. ACS Applied Materials & Interfaces, 2018, 10, 979-984.	8.0	14
26	Molecular Doping Increases the Semitransparent Photovoltaic Performance of Dilute Bulk Heterojunction Film with Discontinuous Polymer Donor Networks. Small Methods, 2022, 6, e2101570.	8.6	14
27	A material combination principle for highly efficient polymer solar cells investigated by mesoscopic phase heterogeneity. Nanoscale, 2013, 5, 11649.	5.6	11
28	Bridging mesoscopic blend structure and property to macroscopic device performance via in situ optoelectronic characterization. Journal of Materials Chemistry, 2012, 22, 4349.	6.7	10
29	X-Ray Multispectrum CT Imaging by Projection Sequences Blind Separation Based on Basis-Effect Decomposition. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-8.	4.7	9
30	Evolution of polymer photovoltaic performances from subtle chemical structure variations. Physical Chemistry Chemical Physics, 2012, 14, 15127.	2.8	7
31	Rationalization of the Selectivity in the Optimization of Processing Conditions for High-Performance Polymer Solar Cells Based on the Polymer Self-Assembly Ability. Journal of Physical Chemistry C, 2014, 118, 29473-29481.	3.1	7
32	Improved contrast of materials based on multi-voltage images decomposition in X-ray CT. Measurement Science and Technology, 2016, 27, 025402.	2.6	7
33	Making weak dopants strong. Nature Materials, 2019, 18, 1269-1270.	27.5	7
34	Narrow-Energy-Width CT Based on Multivoltage X-Ray Image Decomposition. International Journal of Biomedical Imaging, 2017, 2017, 1-9.	3.9	5
35	Nanoscale structural and electronic evolution for increased efficiency in polymer solar cells monitored by electric scanning probe microscopy. Science Bulletin, 2014, 59, 360-368.	1.7	2
36	Magnetic Field Positioning Technology of Indoor Sports Bodies. IEEE Sensors Journal, 2022, 22, 219-228.	4.7	1

#	Article	IF	Citations
37	Heat Transfer Enhancement of n-Type Organic Semiconductors by an Insulator Blend Approach. ACS Applied Materials & Interfaces, 0, , .	8.0	1
38	Statistical iterative spectral CT imaging method based on blind separation of polychromatic projections. Optics Express, 2022, 30, 18219.	3.4	0