Chengmei Zhong

List of Publications by Citations

48 papers	9,049 citations	31 h-index	53 g-index
53 ext. papers	9,432 ext. citations	12.5 avg, IF	5.89 L-index

#	Paper	IF	Citations
48	Enhanced power-conversion efficiency in polymer solar cells using an inverted device structure. *Nature Photonics*, **2012**, 6, 591-595	33.9	3384
47	Simultaneous enhancement of open-circuit voltage, short-circuit current density, and fill factor in polymer solar cells. *Advanced Materials*, **2011**, 23, 4636-43	24	1860
46	High-Performance Solution-Processed Non-Fullerene Organic Solar Cells Based on Selenophene-Containing Perylene Bisimide Acceptor. *Journal of the American Chemical Society*, **2016**, 138, 375-80	16.4	579
45	Recent advances in water/alcohol-soluble π-conjugated materials: new materials and growing applications in solar cells. *Chemical Society Reviews*, **2013**, 42, 9071-104	58.5	400
44	Materials and Devices toward Fully Solution Processable Organic Light-Emitting Diodes. *Chemistry of Materials*, **2011**, 23, 326-340	9.6	368
43	Origin of the enhanced open-circuit voltage in polymer solar cells via interfacial modification using conjugated polyelectrolytes. *Journal of Materials Chemistry*, **2010**, 20, 2617		214
42	Simultaneous optimization of charge-carrier balance and luminous efficacy in highly efficient white polymer light-emitting devices. *Advanced Materials*, **2011**, 23, 2976-80	24	195
41	Electrochemical route to fabricate film-like conjugated microporous polymers and application for organic electronics. *Advanced Materials*, **2013**, 25, 3443-8	24	179
40	Highly efficient inverted polymer solar cells based on a cross-linkable water-/alcohol-soluble conjugated polymer interlayer. *ACS Applied Materials & Interfaces*, **2014**, 6, 10429-35	9.5	144
39	Toward green solvent processable photovoltaic materials for polymer solar cells: the role of highly polar pendant groups in charge carrier transport and photovoltaic behavior. *Energy and Environmental Science*, **2013**, 6, 3022	35.4	142
38	Novel Silafluorene-Based Conjugated Polymers with Pendant Acceptor Groups for High Performance Solar Cells. *Macromolecules*, **2010**, 43, 5262-5268	5.5	125
37	Synthesis of Quinoxaline-Based Donor−Acceptor Narrow-Band-Gap Polymers and Their Cyclized Derivatives for Bulk-Heterojunction Polymer Solar Cell Applications. *Macromolecules*, **2011**, 44, 894-901	5.5	123
36	Conjugated zwitterionic polyelectrolyte-based interface modification materials for high performance polymer optoelectronic devices. *Chemical Science*, **2013**, 4, 1298	9.4	108
35	Highly Efficient Electron Injection from Indium Tin Oxide/Cross-Linkable Amino-Functionalized Polyfluorene Interface in Inverted Organic Light Emitting Devices. *Chemistry of Materials*, **2011**, 23, 4870-4876	9.6	106
34	Highly Efficient Inverted Polymer Solar Cells Based on an Alcohol Soluble Fullerene Derivative Interfacial Modification Material. *Chemistry of Materials*, **2012**, 24, 1682-1689	9.6	100
33	Achieving High Efficiency of PTB7-Based Polymer Solar Cells via Integrated Optimization of Both Anode and Cathode Interlayers. *Advanced Energy Materials*, **2014**, 4, 1301771	21.8	92
32	Investigation of Charge Carrier Behavior in High Performance Ternary Blend Polymer Solar Cells. *Advanced Energy Materials*, **2016**, 6, 1600637	21.8	79

31	High-Performance Inverted Organic Photovoltaics with Over 1-μm Thick Active Layers. *Advanced Energy Materials*, **2014**, 4, 1400378	21.8	76
30	In situ electrochemical deposition and doping of C60 films applied to high-performance inverted organic photovoltaics. *Advanced Materials*, **2012**, 24, 5727-31	24	60
29	CdS-Nanoparticle-Doped Liquid Crystal Displays Showing Low Threshold Voltage. *Japanese Journal of Applied Physics*, **2009**, 48, 055002	1.4	55
28	A Fluorene–Oxadiazole Copolymer for White Light-Emitting Electrochemical Cells. *Macromolecules*, **2010**, 43, 1714-1718	5.5	54
27	The influence of binary processing additives on the performance of polymer solar cells. *Nanoscale*, **2014**, 6, 14297-304	7.7	48
26	5,6-Bis(decyloxy)-2,1,3-benzooxadiazole-Based Polymers with Different Electron Donors for Bulk-Heterojunction Solar Cells. *Journal of Physical Chemistry C*, **2011**, 115, 16211-16219	3.8	45
25	Ultrafast Charge Generation in an Organic Bilayer Film. *Journal of Physical Chemistry Letters*, **2014**, 5, 2000-6	6.4	43
24	Mechanisms of Ultrafast Charge Separation in a PTB7/Monolayer MoS van der Waals Heterojunction. *Journal of Physical Chemistry Letters*, **2018**, 9, 2484-2491	6.4	42
23	Highly efficient green-emitting electrophosphorescent hyperbranched polymers using a bipolar carbazole-3,6-diyl-co-2,8-octyldibenzothiophene-S,S-dioxide-3,7-diyl unit as the branch. *RSC Advances*, **2012**, 2, 689-696	3.7	42
22	Ordered polymer nanofibers enhance output brightness in bilayer light-emitting field-effect transistors. *ACS Nano*, **2013**, 7, 2344-51	16.7	41
21	Toward High Efficiency Polymer Solar Cells: Influence of Local Chemical Environment and Morphology. *Advanced Energy Materials*, **2017**, 7, 1601081	21.8	40
20	High efficiency solution processed inverted white organic light emitting diodes with a cross-linkable amino-functionalized polyfluorene as a cathode interlayer. *Journal of Materials Chemistry C*, **2014**, 2, 3270-3277	7.1	39
19	A novel crosslinkable electron injection/transporting material for solution processed polymer light-emitting diodes. *Science China Chemistry*, **2011**, 54, 1745-1749	7.9	38
18	Synthesis of novel narrow-band-gap copolymers based on [1,2,5]thiadiazolo[3,4-f]benzotriazole and their application in bulk-heterojunction photovoltaic devices. *Polymer*, **2012**, 53, 1465-1472	3.9	37
17	Stimulated Emission from Rhodamine 6G Aggregates Self-Assembled on Amyloid Protein Fibrils. *ACS Photonics*, **2015**, 2, 1755-1762	6.3	27
16	Ultrafast charge transfer in operating bulk heterojunction solar cells. *Advanced Materials*, **2015**, 27, 2036-41	24	26
15	Bandgap engineering of indenofluorene-based conjugated copolymers with pendant donor–acceptor chromophores for photovoltaic applications. *Journal of Polymer Science Part A*, **2011**, 49, 4406-4415	2.5	20
14	Influence of Intermixed Donor and Acceptor Domains on the Ultrafast Charge Generation in Bulk Heterojunction Materials. *Journal of Physical Chemistry C*, **2015**, 119, 26889-26894	3.8	19

13	Solution-processed bulk heterojunction photovoltaic cells from gradient pi-conjugated thienylene vinylene dendrimers. *Chemistry - an Asian Journal*, **2010**, 5, 105-13	4.5	16
12	Hot Carrier and Surface Recombination Dynamics in Layered InSe Crystals. *Journal of Physical Chemistry Letters*, **2019**, 10, 493-499	6.4	15
11	The influence of amino group on PCDTBT-based and P3HT-based polymer solar cells: Hole trapping processes. *Applied Physics Letters*, **2015**, 106, 233302	3.4	13
10	Molecular-Scale Characterization of Photoinduced Charge Separation in Mixed-Dimensional InSe-Organic van der Waals Heterostructures. *ACS Nano*, **2020**, 14, 3509-3518	16.7	12
9	Novel aminoalkyl-functionalized blue-, green- and red-emitting polyfluorenes. *Organic Electronics*, **2014**, 15, 850-857	3.5	10
8	Role of Localized States on Carrier Transport in Bulk Heterojunction Materials Comprised of Organic Small Molecule Donors. *Advanced Materials*, **2014**, 26, 2341-2345	24	9
7	Alkali metal salts doped pluronic block polymers as electron injection/transport layers for high performance polymer light-emitting diodes. *Science China Chemistry*, **2012**, 55, 766-771	7.9	8
6	Fluorene-Benzothiadiazole Copolymer for Single Component Green Light-Emitting Electrochemical Cells. *Journal of Display Technology*, **2013**, 9, 476-482		7
5	Interface Engineering for High Performance Bulk-Heterojunction Polymeric Solar Cells. *Green Energy and Technology*, **2013**, 43-79	0.6	5
4	Synthesis and characterization of alternating copolymers derived from indeno[1,2-b]fluorene for blue light-emitting diodes. *Journal of Applied Polymer Science*, **2012**, 125, 1409-1417	2.9	3
3	Organic Optoelectronic Devices Containing Water/Alcohol-Soluble Conjugated Polymers and Conjugated Polyelectrolytes* **2013**, 345-388		1
2	Water/Alcohol-Soluble Conjugated Polymer-Based Interlayers for Polymer Solar Cells **2014**, 301-318		0
1	Development of Active Materials and Interface Materials for High Performance Bulk-Heterojunction Polymer Solar Cells. *Topics in Applied Physics*, **2015**, 191-219	0.5	