

ziruo Hong

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91
papers

24,995
citations

51
h-index

93
g-index

93
ext. papers

26,716
ext. citations

11.5
avg, IF

6.89
L-index

#	Paper	IF	Citations
91	Photovoltaics. Interface engineering of highly efficient perovskite solar cells. <i>Science</i> , 2014 , 345, 542-6	33.3	5272
90	Planar heterojunction perovskite solar cells via vapor-assisted solution process. <i>Journal of the American Chemical Society</i> , 2014 , 136, 622-5	16.4	1921
89	Solution-processed hybrid perovskite photodetectors with high detectivity. <i>Nature Communications</i> , 2014 , 5, 5404	17.4	1749
88	Improved air stability of perovskite solar cells via solution-processed metal oxide transport layers. <i>Nature Nanotechnology</i> , 2016 , 11, 75-81	28.7	1614
87	Low-temperature solution-processed perovskite solar cells with high efficiency and flexibility. <i>ACS Nano</i> , 2014 , 8, 1674-80	16.7	1216
86	Controllable self-induced passivation of hybrid lead iodide perovskites toward high performance solar cells. <i>Nano Letters</i> , 2014 , 14, 4158-63	11.5	1143
85	Recent Progress in Polymer Solar Cells: Manipulation of Polymer:Fullerene Morphology and the Formation of Efficient Inverted Polymer Solar Cells. <i>Advanced Materials</i> , 2009 , 21, 1434-1449	24	1142
84	25th anniversary article: a decade of organic/polymeric photovoltaic research. <i>Advanced Materials</i> , 2013 , 25, 6642-71	24	978
83	Low-Bandgap Near-IR Conjugated Polymers/Molecules for Organic Electronics. <i>Chemical Reviews</i> , 2015 , 115, 12633-65	68.1	863
82	Under the spotlight: The organic/inorganic hybrid halide perovskite for optoelectronic applications. <i>Nano Today</i> , 2015 , 10, 355-396	17.9	700
81	Moisture assisted perovskite film growth for high performance solar cells. <i>Applied Physics Letters</i> , 2014 , 105, 183902	3.4	598
80	Interface investigation and engineering in achieving high performance polymer photovoltaic devices. <i>Journal of Materials Chemistry</i> , 2010 , 20, 2575		521
79	Solution-processed small-molecule solar cells: breaking the 10% power conversion efficiency. <i>Scientific Reports</i> , 2013 , 3, 3356	4.9	511
78	High-efficiency robust perovskite solar cells on ultrathin flexible substrates. <i>Nature Communications</i> , 2016 , 7, 10214	17.4	444
77	Multifunctional Fullerene Derivative for Interface Engineering in Perovskite Solar Cells. <i>Journal of the American Chemical Society</i> , 2015 , 137, 15540-7	16.4	433
76	10.2% power conversion efficiency polymer tandem solar cells consisting of two identical sub-cells. <i>Advanced Materials</i> , 2013 , 25, 3973-8	24	403
75	Plasmonic polymer tandem solar cell. <i>ACS Nano</i> , 2011 , 5, 6210-7	16.7	304

74	Highly efficient tandem polymer photovoltaic cells. <i>Advanced Materials</i> , 2010 , 22, 380-3	24	304
73	Efficient Polymer Solar Cells with Thin Active Layers Based on Alternating Polyfluorene Copolymer/Fullerene Bulk Heterojunctions. <i>Advanced Materials</i> , 2009 , 21, 4238-4242	24	240
72	Recent trends in polymer tandem solar cells research. <i>Progress in Polymer Science</i> , 2013 , 38, 1909-1928	29.6	232
71	Perovskite Solar Cells Employing Dopant-Free Organic Hole Transport Materials with Tunable Energy Levels. <i>Advanced Materials</i> , 2016 , 28, 440-6	24	217
70	A robust inter-connecting layer for achieving high performance tandem polymer solar cells. <i>Advanced Materials</i> , 2011 , 23, 3465-70	24	214
69	A dopant-free organic hole transport material for efficient planar heterojunction perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 11940-11947	13	182
68	Tandem polymer photovoltaic cells current status, challenges and future outlook. <i>Energy and Environmental Science</i> , 2011 , 4, 1606	35.4	179
67	Squaraine dyes for organic photovoltaic cells. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 14517-14534	13	167
66	A metal-oxide interconnection layer for polymer tandem solar cells with an inverted architecture. <i>Advanced Materials</i> , 2011 , 23, 1282-6	24	159
65	Pure Formamidinium-Based Perovskite Light-Emitting Diodes with High Efficiency and Low Driving Voltage. <i>Advanced Materials</i> , 2017 , 29, 1603826	24	145
64	Co-evaporated bulk heterojunction solar cells with >6.0% efficiency. <i>Advanced Materials</i> , 2012 , 24, 2768-77	24	143
63	A bis-salicylaldiminato Schiff base and its zinc complex as new highly fluorescent red dopants for high performance organic electroluminescence devices. <i>Chemical Communications</i> , 2003 , 1664-1665	5.8	141
62	Integrated perovskite/bulk-heterojunction toward efficient solar cells. <i>Nano Letters</i> , 2015 , 15, 662-8	11.5	129
61	Effect of Carbon Chain Length in the Substituent of PCBM-like Molecules on Their Photovoltaic Properties. <i>Advanced Functional Materials</i> , 2010 , 20, 1480-1487	15.6	128
60	Perovskite/polymer monolithic hybrid tandem solar cells utilizing a low-temperature, full solution process. <i>Materials Horizons</i> , 2015 , 2, 203-211	14.4	127
59	High-efficiency polymer tandem solar cells with three-terminal structure. <i>Advanced Materials</i> , 2010 , 22, E77-80	24	119
58	Toward Highly Sensitive Polymer Photodetectors by Molecular Engineering. <i>Advanced Materials</i> , 2015 , 27, 6496-503	24	114
57	High efficiency polymer solar cells with vertically modulated nanoscale morphology. <i>Nanotechnology</i> , 2009 , 20, 165202	3.4	111

56	A Series of Squaraine Dyes: Effects of Side Chain and the Number of Hydroxyl Groups on Material Properties and Photovoltaic Performance. <i>Chemistry of Materials</i> , 2014 , 26, 1356-1364	9.6	97
55	Solution-processed small molecules using different electron linkers for high-performance solar cells. <i>Advanced Materials</i> , 2013 , 25, 4657-62	24	92
54	Low-Temperature TiOx Compact Layer for Planar Heterojunction Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 11076-83	9.5	91
53	Synthesis, crystal structure and electroluminescent properties of a Schiff base zinc complex. <i>Inorganica Chimica Acta</i> , 2006 , 359, 2246-2251	2.7	90
52	Multi-source/component spray coating for polymer solar cells. <i>ACS Nano</i> , 2010 , 4, 4744-52	16.7	87
51	A New Family of Isophorone-Based Dopants for Red Organic Electroluminescent Devices. <i>Chemistry of Materials</i> , 2003 , 15, 1486-1490	9.6	84
50	Working Mechanism for Flexible Perovskite Solar Cells with Simplified Architecture. <i>Nano Letters</i> , 2015 , 15, 6514-20	11.5	82
49	J-aggregation of a squaraine dye and its application in organic photovoltaic cells. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 6547	7.1	75
48	Anthracene derivative for a non-doped blue-emitting organic electroluminescence device with both excellent color purity and high efficiency. <i>Chemical Physics Letters</i> , 2004 , 397, 1-4	2.5	73
47	Synthesis, photoluminescence and electroluminescence of new 1H-pyrazolo[3,4-b]quinoxaline derivatives. <i>Journal of Materials Chemistry</i> , 2003 , 13, 1894		66
46	The study of solvent additive effects in efficient polymer photovoltaics via impedance spectroscopy. <i>Solar Energy Materials and Solar Cells</i> , 2014 , 130, 20-26	6.4	65
45	Unraveling the High Open Circuit Voltage and High Performance of Integrated Perovskite/Organic Bulk-Heterojunction Solar Cells. <i>Nano Letters</i> , 2017 , 17, 5140-5147	11.5	61
44	Solution-processed organic photovoltaic cells based on a squaraine dye. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 14661-6	3.6	61
43	Infrared and visible emission from organic electroluminescent devices based on praseodymium complex. <i>Applied Physics Letters</i> , 2001 , 79, 1942-1944	3.4	58
42	High-efficiency simple planar heterojunction organic thin-film photovoltaics with horizontally oriented amorphous donors. <i>Solar Energy Materials and Solar Cells</i> , 2012 , 98, 472-475	6.4	56
41	Highly efficient organic p-i-n photovoltaic cells based on tetraphenyldibenzoperiflanthene and fullerene C70. <i>Energy and Environmental Science</i> , 2013 , 6, 249-255	35.4	53
40	White light emitting organic electroluminescent devices using lanthanide dinuclear complexes. <i>Journal of Luminescence</i> , 1999 , 82, 105-109	3.8	51
39	Spectrally-narrow blue light-emitting organic electroluminescent devices utilizing thulium complexes. <i>Synthetic Metals</i> , 1999 , 104, 165-168	3.6	50

38	Energy transfer process from polymer to rare earth complexes. <i>Synthetic Metals</i> , 1997 , 91, 151-154	3.6	48
37	A triphenylamine derivative as an efficient organic light color-conversion material for white LEDs. <i>Journal of Luminescence</i> , 2008 , 128, 67-73	3.8	47
36	Optical and electrical properties of a squaraine dye in photovoltaic cells. <i>Applied Physics Letters</i> , 2012 , 101, 083904	3.4	46
35	Europium complexes as emitters in organic electroluminescent devices. <i>Synthetic Metals</i> , 1997 , 91, 267-269	3.6	45
34	Enhanced electroluminescence of europium(III) complex by terbium(III) substitution in organic light emitting diodes. <i>Thin Solid Films</i> , 2000 , 363, 208-210	2.2	43
33	A schiff base zinc complex and its electroluminescent properties. <i>Thin Solid Films</i> , 2007 , 515, 4080-4084	2.2	42
32	10.5% efficient polymer and amorphous silicon hybrid tandem photovoltaic cell. <i>Nature Communications</i> , 2015 , 6, 6391	17.4	38
31	Triphenylamine-functionalized rhenium (I) complex as a highly efficient yellow-green emitter in electrophosphorescent devices. <i>Applied Physics Letters</i> , 2006 , 89, 243511	3.4	36
30	The Critical Role of Processing and Morphology in Determining Degradation Rates in Polymer Solar Cells. <i>Advanced Energy Materials</i> , 2011 , 1, 124-131	21.8	35
29	Natural Photosynthetic Carotenoids for Solution-Processed Organic Bulk-Heterojunction Solar Cells. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 804-811	3.8	34
28	Organic electroluminescent devices using terbium chelates as the emitting layers. <i>Synthetic Metals</i> , 1997 , 91, 263-265	3.6	33
27	Observation of red intraligand electrophosphorescence from a stilbene-containing Re(I) complex. <i>Applied Physics Letters</i> , 2004 , 85, 4786-4788	3.4	33
26	White light emission from OEL devices based on organic dysprosium-complex. <i>Synthetic Metals</i> , 2000 , 111-112, 43-45	3.6	32
25	Soluble squaraine derivatives for 4.9% efficient organic photovoltaic cells. <i>RSC Advances</i> , 2014 , 4, 42804-42807	3.7	26
24	Improved performance of electrophosphorescent devices based on Re(CO)3Cl-dipyrido[3,2-a:2',3'-c]phenazine. <i>Applied Physics Letters</i> , 2006 , 88, 093507	3.4	24
23	Electroluminescence from Singlet Excited-State of the Exciplex between (2,3-Dicarbonitriropyrazino[2,3-f][1,10]phenanthroline)Re(CO)3Cl and CBP. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 3920-3925	3.8	22
22	Fullerene derivatives as electron donor for organic photovoltaic cells. <i>Applied Physics Letters</i> , 2013 , 103, 203301	3.4	21
21	The effect of processing solvent dependent film aggregation on the photovoltaic performance of squaraine:PC71BM bulk heterojunction solar cells. <i>Organic Electronics</i> , 2017 , 51, 62-69	3.5	20

20	A terbium (III) complex with triphenylamine-functionalized ligand for organic electroluminescent device. <i>Journal of Luminescence</i> , 2008 , 128, 620-624	3.8	19
19	Dicyano-functionalized chlorophyll derivatives with ambipolar characteristic for organic photovoltaics. <i>Organic Electronics</i> , 2013 , 14, 1972-1979	3.5	18
18	A squaraine dye as molecular sensitizer for increasing light harvesting in polymer solar cells. <i>Synthetic Metals</i> , 2014 , 192, 10-14	3.6	17
17	Development of Solar Cells Based on Synthetic Near-Infrared Absorbing Purpurins 2: Use of Fullerene and Its Derivative As Electron Acceptors for Favorable Charge Separation. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 21244-21254	3.8	17
16	High fill factor and thermal stability of bilayer organic photovoltaic cells with an inverted structure. <i>Applied Physics Letters</i> , 2015 , 106, 053305	3.4	16
15	Chloroboron (III) subnaphthalocyanine as an electron donor in bulk heterojunction photovoltaic cells. <i>Nanotechnology</i> , 2013 , 24, 484007	3.4	16
14	Electron-transport properties of rare earth chelates in organic electroluminescent devices. <i>Synthetic Metals</i> , 1997 , 91, 271-273	3.6	13
13	Fullerene C70 as a p-type donor in organic photovoltaic cells. <i>Applied Physics Letters</i> , 2014 , 105, 093301	3.4	12
12	Solution-processed organic photovoltaics based on indoline dye molecules developed in dye-sensitized solar cells. <i>Molecules</i> , 2013 , 18, 3107-17	4.8	12
11	Organic Light-Emitting Diode Using Eu ³⁺ Polymer Complex as an Emitter. <i>Japanese Journal of Applied Physics</i> , 1999 , 38, L46-L48	1.4	12
10	A morphology control layer of a pyrene dimer enhances the efficiency in small molecule organic photovoltaic cells. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 501-509	7.1	10
9	Highly efficient electrophosphorescence devices based on iridium complexes with high efficiency over a wide range of current densities. <i>Journal Physics D: Applied Physics</i> , 2008 , 41, 245101	3	10
8	Rhenium(I) complex as an electron acceptor in a photovoltaic device. <i>Journal of Alloys and Compounds</i> , 2007 , 432, L15-L17	5.7	9
7	Comparison of the Solution and Vacuum-Processed Squaraine:Fullerene Small-Molecule Bulk Heterojunction Solar Cells. <i>Frontiers in Chemistry</i> , 2018 , 6, 412	5	8
6	Tandem Solar Cell Concept and Practice in Organic Solar Cells. <i>Topics in Applied Physics</i> , 2015 , 315-346	0.5	6
5	Soluble dendrimers europium(III) diketonate complex for organic memory devices. <i>Thin Solid Films</i> , 2008 , 516, 3123-3127	2.2	6
4	Redistribution of carriers in OEL devices by inserting a thin charge-carrier blocking layer. <i>Synthetic Metals</i> , 1997 , 91, 275-277	3.6	4
3	Indoline-based donor molecule for efficient co-evaporated organic photovoltaics. <i>Organic Electronics</i> , 2013 , 14, 2210-2215	3.5	2

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| 2 | Preparation, photo- and electro-luminescent properties of a novel complex of Tb (III) with a tripod ligand. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2008 , 69, 654-8 | 4-4 | 2 |
| 1 | Inverted Planar Structure of Perovskite Solar Cells 2016 , 307-324 | | 1 |