

ziruo Hong

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	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
90	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
89	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
88	Pure Formamidinium-Based Perovskite Light-Emitting Diodes with High Efficiency and Low Driving Voltage. <i>Advanced Materials</i> , 2017 , 29, 1603826	24	145
87	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
86	High-efficiency robust perovskite solar cells on ultrathin flexible substrates. <i>Nature Communications</i> , 2016 , 7, 10214	17.4	444
85	Perovskite Solar Cells Employing Dopant-Free Organic Hole Transport Materials with Tunable Energy Levels. <i>Advanced Materials</i> , 2016 , 28, 440-6	24	217
84	Low-Temperature TiOx Compact Layer for Planar Heterojunction Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 11076-83	9.5	91
83	Inverted Planar Structure of Perovskite Solar Cells 2016 , 307-324		1
82	10.5% efficient polymer and amorphous silicon hybrid tandem photovoltaic cell. <i>Nature Communications</i> , 2015 , 6, 6391	17.4	38
81	Under the spotlight: The organic/inorganic hybrid halide perovskite for optoelectronic applications. <i>Nano Today</i> , 2015 , 10, 355-396	17.9	700
80	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
79	Tandem Solar Cell Concept and Practice in Organic Solar Cells. <i>Topics in Applied Physics</i> , 2015 , 315-346	0.5	6
78	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
77	Working Mechanism for Flexible Perovskite Solar Cells with Simplified Architecture. <i>Nano Letters</i> , 2015 , 15, 6514-20	11.5	82
76	Low-Bandgap Near-IR Conjugated Polymers/Molecules for Organic Electronics. <i>Chemical Reviews</i> , 2015 , 115, 12633-65	68.1	863
75	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

74	Integrated perovskite/bulk-heterojunction toward efficient solar cells. <i>Nano Letters</i> , 2015 , 15, 662-8	11.5	129
73	Toward Highly Sensitive Polymer Photodetectors by Molecular Engineering. <i>Advanced Materials</i> , 2015 , 27, 6496-503	24	114
72	Squaraine dyes for organic photovoltaic cells. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 14517-14534	13	167
71	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
70	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
69	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
68	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
67	Low-temperature solution-processed perovskite solar cells with high efficiency and flexibility. <i>ACS Nano</i> , 2014 , 8, 1674-80	16.7	1216
66	Solution-processed hybrid perovskite photodetectors with high detectivity. <i>Nature Communications</i> , 2014 , 5, 5404	17.4	1749
65	Soluble squaraine derivatives for 4.9% efficient organic photovoltaic cells. <i>RSC Advances</i> , 2014 , 4, 42804-42807	3.7	26
64	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
63	Photovoltaics. Interface engineering of highly efficient perovskite solar cells. <i>Science</i> , 2014 , 345, 542-6	33.3	5272
62	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
61	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
60	Fullerene C70 as a p-type donor in organic photovoltaic cells. <i>Applied Physics Letters</i> , 2014 , 105, 093301	3.4	12
59	Moisture assisted perovskite film growth for high performance solar cells. <i>Applied Physics Letters</i> , 2014 , 105, 183902	3.4	598
58	Dicyano-functionalized chlorophyll derivatives with ambipolar characteristic for organic photovoltaics. <i>Organic Electronics</i> , 2013 , 14, 1972-1979	3.5	18
57	Solution-processed small-molecule solar cells: breaking the 10% power conversion efficiency. <i>Scientific Reports</i> , 2013 , 3, 3356	4.9	511

56	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
55	25th anniversary article: a decade of organic/polymeric photovoltaic research. <i>Advanced Materials</i> , 2013 , 25, 6642-71	24	978
54	Fullerene derivatives as electron donor for organic photovoltaic cells. <i>Applied Physics Letters</i> , 2013 , 103, 203301	3.4	21
53	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
52	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
51	Recent trends in polymer tandem solar cells research. <i>Progress in Polymer Science</i> , 2013 , 38, 1909-1928	29.6	232
50	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
49	Solution-processed small molecules using different electron linkers for high-performance solar cells. <i>Advanced Materials</i> , 2013 , 25, 4657-62	24	92
48	Indoline-based donor molecule for efficient co-evaporated organic photovoltaics. <i>Organic Electronics</i> , 2013 , 14, 2210-2215	3.5	2
47	Chloroboron (III) subnaphthalocyanine as an electron donor in bulk heterojunction photovoltaic cells. <i>Nanotechnology</i> , 2013 , 24, 484007	3.4	16
46	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
45	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
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	Optical and electrical properties of a squaraine dye in photovoltaic cells. <i>Applied Physics Letters</i> , 2012 , 101, 083904	3.4	46
42	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
41	Co-evaporated bulk heterojunction solar cells with >6.0% efficiency. <i>Advanced Materials</i> , 2012 , 24, 2768-73	3.7	143
40	Tandem polymer photovoltaic cells: current status, challenges and future outlook. <i>Energy and Environmental Science</i> , 2011 , 4, 1606	35.4	179
39	Plasmonic polymer tandem solar cell. <i>ACS Nano</i> , 2011 , 5, 6210-7	16.7	304

38	A metal-oxide interconnection layer for polymer tandem solar cells with an inverted architecture. <i>Advanced Materials</i> , 2011 , 23, 1282-6	24	159
37	A robust inter-connecting layer for achieving high performance tandem polymer solar cells. <i>Advanced Materials</i> , 2011 , 23, 3465-70	24	214
36	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
35	Multi-source/component spray coating for polymer solar cells. <i>ACS Nano</i> , 2010 , 4, 4744-52	16.7	87
34	Interface investigation and engineering for achieving high performance polymer photovoltaic devices. <i>Journal of Materials Chemistry</i> , 2010 , 20, 2575		521
33	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
32	Highly efficient tandem polymer photovoltaic cells. <i>Advanced Materials</i> , 2010 , 22, 380-3	24	304
31	High-efficiency polymer tandem solar cells with three-terminal structure. <i>Advanced Materials</i> , 2010 , 22, E77-80	24	119
30	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
29	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
28	High efficiency polymer solar cells with vertically modulated nanoscale morphology. <i>Nanotechnology</i> , 2009 , 20, 165202	3.4	111
27	Electroluminescence from Singlet Excited-State of the Exciplex between (2,3-Dicarbonitriropyrazino[2,3-f][1,10]phenanthroline)Re(CO) ₃ Cl and CBP. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 3920-3925	3.8	22
26	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
25	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
24	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
23	A terbium (III) complex with triphenylamine-functionalized ligand for organic electroluminescent device. <i>Journal of Luminescence</i> , 2008 , 128, 620-624	3.8	19
22	Soluble dendrimers europium(III) diketonate complex for organic memory devices. <i>Thin Solid Films</i> , 2008 , 516, 3123-3127	2.2	6
21	A schiff base zinc complex and its electroluminescent properties. <i>Thin Solid Films</i> , 2007 , 515, 4080-4084	2.2	42

20	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
19	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
18	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
17	Synthesis, crystal structure and electroluminescent properties of a Schiff base zinc complex. <i>Inorganica Chimica Acta</i> , 2006 , 359, 2246-2251	2.7	90
16	Observation of red intraligand electrophosphorescence from a stilbene-containing Re(I) complex. <i>Applied Physics Letters</i> , 2004 , 85, 4786-4788	3.4	33
15	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
14	Synthesis, photoluminescence and electroluminescence of new 1H-pyrazolo[3,4-b]quinoxaline derivatives. <i>Journal of Materials Chemistry</i> , 2003 , 13, 1894		66
13	A New Family of Isophorone-Based Dopants for Red Organic Electroluminescent Devices. <i>Chemistry of Materials</i> , 2003 , 15, 1486-1490	9.6	84
12	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
11	Infrared and visible emission from organic electroluminescent devices based on praseodymium complex. <i>Applied Physics Letters</i> , 2001 , 79, 1942-1944	3.4	58
10	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
9	White light emission from OEL devices based on organic dysprosium-complex. <i>Synthetic Metals</i> , 2000 , 111-112, 43-45	3.6	32
8	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
7	White light emitting organic electroluminescent devices using lanthanide dinuclear complexes. <i>Journal of Luminescence</i> , 1999 , 82, 105-109	3.8	51
6	Spectrally-narrow blue light-emitting organic electroluminescent devices utilizing thulium complexes. <i>Synthetic Metals</i> , 1999 , 104, 165-168	3.6	50
5	Energy transfer process from polymer to rare earth complexes. <i>Synthetic Metals</i> , 1997 , 91, 151-154	3.6	48
4	Organic electroluminescent devices using terbium chelates as the emitting layers. <i>Synthetic Metals</i> , 1997 , 91, 263-265	3.6	33
3	Europium complexes as emitters in organic electroluminescent devices. <i>Synthetic Metals</i> , 1997 , 91, 267-269		45

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| 2 | Electron-transport properties of rare earth chelates in organic electroluminescent devices. <i>Synthetic Metals</i> , 1997 , 91, 271-273 | 3.6 | 13 |
| 1 | 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 |