

# ziruo Hong

## List of Publications by Year in descending order

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91  
papers

28,234  
citations

31902

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43802

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all docs

93  
docs citations

93  
times ranked

23441  
citing authors

#	ARTICLE	IF	CITATIONS
1	Interface engineering of highly efficient perovskite solar cells. <i>Science</i> , 2014, 345, 542-546.	6.0	5,936
2	Solution-processed hybrid perovskite photodetectors with high detectivity. <i>Nature Communications</i> , 2014, 5, 5404.	5.8	2,214
3	Planar Heterojunction Perovskite Solar Cells via Vapor-Assisted Solution Process. <i>Journal of the American Chemical Society</i> , 2014, 136, 622-625.	6.6	2,091
4	Improved air stability of perovskite solar cells via solution-processed metal oxide transport layers. <i>Nature Nanotechnology</i> , 2016, 11, 75-81.	15.6	1,890
5	Controllable Self-Induced Passivation of Hybrid Lead Iodide Perovskites toward High Performance Solar Cells. <i>Nano Letters</i> , 2014, 14, 4158-4163.	4.5	1,343
6	Low-Temperature Solution-Processed Perovskite Solar Cells with High Efficiency and Flexibility. <i>ACS Nano</i> , 2014, 8, 1674-1680.	7.3	1,320
7	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.	11.1	1,211
8	25th Anniversary Article: A Decade of Organic/Polymeric Photovoltaic Research. <i>Advanced Materials</i> , 2013, 25, 6642-6671.	11.1	1,055
9	Low-Bandgap Near-IR Conjugated Polymers/Molecules for Organic Electronics. <i>Chemical Reviews</i> , 2015, 115, 12633-12665.	23.0	1,029
10	Under the spotlight: The organic-inorganic hybrid halide perovskite for optoelectronic applications. <i>Nano Today</i> , 2015, 10, 355-396.	6.2	891
11	Moisture assisted perovskite film growth for high performance solar cells. <i>Applied Physics Letters</i> , 2014, 105, .	1.5	667
12	Interface investigation and engineering achieving high performance polymer photovoltaic devices. <i>Journal of Materials Chemistry</i> , 2010, 20, 2575.	6.7	542
13	Solution-processed small-molecule solar cells: breaking the 10% power conversion efficiency. <i>Scientific Reports</i> , 2013, 3, 3356.	1.6	542
14	High-efficiency robust perovskite solar cells on ultrathin flexible substrates. <i>Nature Communications</i> , 2016, 7, 10214.	5.8	534
15	Multifunctional Fullerene Derivative for Interface Engineering in Perovskite Solar Cells. <i>Journal of the American Chemical Society</i> , 2015, 137, 15540-15547.	6.6	490
16	10.2% Power Conversion Efficiency Polymer Tandem Solar Cells Consisting of Two Identical Subcells. <i>Advanced Materials</i> , 2013, 25, 3973-3978.	11.1	419
17	Plasmonic Polymer Tandem Solar Cell. <i>ACS Nano</i> , 2011, 5, 6210-6217.	7.3	326
18	Highly Efficient Tandem Polymer Photovoltaic Cells. <i>Advanced Materials</i> , 2010, 22, 380-383.	11.1	320

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19	Perovskite Solar Cells Employing Dopant-Free Organic Hole Transport Materials with Tunable Energy Levels. <i>Advanced Materials</i> , 2016, 28, 440-446.	11.1	249
20	Recent trends in polymer tandem solar cells research. <i>Progress in Polymer Science</i> , 2013, 38, 1909-1928.	11.8	246
21	Efficient Polymer Solar Cells with Thin Active Layers Based on Alternating Polyfluorene Copolymer/Fullerene Bulk Heterojunctions. <i>Advanced Materials</i> , 2009, 21, 4238-4242.	11.1	242
22	A Robust Interconnecting Layer for Achieving High Performance Tandem Polymer Solar Cells. <i>Advanced Materials</i> , 2011, 23, 3465-3470.	11.1	224
23	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.	5.2	213
24	Squaraine dyes for organic photovoltaic cells. <i>Journal of Materials Chemistry A</i> , 2015, 3, 14517-14534.	5.2	201
25	Tandem polymer photovoltaic cells—current status, challenges and future outlook. <i>Energy and Environmental Science</i> , 2011, 4, 1606.	15.6	190
26	Pure Formamidinium-Based Perovskite Light-Emitting Diodes with High Efficiency and Low Driving Voltage. <i>Advanced Materials</i> , 2017, 29, 1603826.	11.1	179
27	A Metal-Oxide Interconnection Layer for Polymer Tandem Solar Cells with an Inverted Architecture. <i>Advanced Materials</i> , 2011, 23, 1282-1286.	11.1	165
28	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.	2.2	152
29	Co-Evaporated Bulk Heterojunction Solar Cells with >6.0% Efficiency. <i>Advanced Materials</i> , 2012, 24, 2768-2773.	11.1	149
30	Perovskite/polymer monolithic hybrid tandem solar cells utilizing a low-temperature, full solution process. <i>Materials Horizons</i> , 2015, 2, 203-211.	6.4	148
31	Integrated Perovskite/Bulk-Heterojunction toward Efficient Solar Cells. <i>Nano Letters</i> , 2015, 15, 662-668.	4.5	145
32	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.	7.8	137
33	Toward Highly Sensitive Polymer Photodetectors by Molecular Engineering. <i>Advanced Materials</i> , 2015, 27, 6496-6503.	11.1	136
34	High-Efficiency Polymer Tandem Solar Cells with Three-Terminal Structure. <i>Advanced Materials</i> , 2010, 22, E77-80.	11.1	123
35	High efficiency polymer solar cells with vertically modulated nanoscale morphology. <i>Nanotechnology</i> , 2009, 20, 165202.	1.3	122
36	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.	3.2	119

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37	Synthesis, crystal structure and electroluminescent properties of a Schiff base zinc complex. <i>Inorganica Chimica Acta</i> , 2006, 359, 2246-2251.	1.2	100
38	Low-Temperature TiO <sub>2</sub> Compact Layer for Planar Heterojunction Perovskite Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 11076-11083.	4.0	100
39	Multi-Source/Component Spray Coating for Polymer Solar Cells. <i>ACS Nano</i> , 2010, 4, 4744-4752.	7.3	99
40	Solution-Processed Small Molecules Using Different Electron Linkers for High-Performance Solar Cells. <i>Advanced Materials</i> , 2013, 25, 4657-4662.	11.1	96
41	J-aggregation of a squaraine dye and its application in organic photovoltaic cells. <i>Journal of Materials Chemistry C</i> , 2013, 1, 6547.	2.7	91
42	Working Mechanism for Flexible Perovskite Solar Cells with Simplified Architecture. <i>Nano Letters</i> , 2015, 15, 6514-6520.	4.5	91
43	A New Family of Isophorone-Based Dopants for Red Organic Electroluminescent Devices. <i>Chemistry of Materials</i> , 2003, 15, 1486-1490.	3.2	88
44	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.	1.2	78
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.	4.5	78
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.	3.0	75
47	Synthesis, photoluminescence and electroluminescence of new 1H-pyrazolo[3,4-b]quinoxaline derivatives. <i>Journal of Materials Chemistry</i> , 2003, 13, 1894.	6.7	70
48	Solution-processed organic photovoltaic cells based on a squaraine dye. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 14661.	1.3	69
49	Infrared and visible emission from organic electroluminescent devices based on praseodymium complex. <i>Applied Physics Letters</i> , 2001, 79, 1942-1944.	1.5	61
50	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.	3.0	57
51	Highly efficient organic p-i-n photovoltaic cells based on tetraphenylidibenzoperiflanthene and fullerene C <sub>70</sub> . <i>Energy and Environmental Science</i> , 2013, 6, 249-255.	15.6	57
52	Spectrally-narrow blue light-emitting organic electroluminescent devices utilizing thulium complexes. <i>Synthetic Metals</i> , 1999, 104, 165-168.	2.1	56
53	White light emitting organic electroluminescent devices using lanthanide dinuclear complexes. <i>Journal of Luminescence</i> , 1999, 82, 105-109.	1.5	55
54	Europium complexes as emitters in organic electroluminescent devices. <i>Synthetic Metals</i> , 1997, 91, 267-269.	2.1	51

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55	A triphenylamine derivative as an efficient organic light color-conversion material for white LEDs. <i>Journal of Luminescence</i> , 2008, 128, 67-73.	1.5	51
56	Optical and electrical properties of a squaraine dye in photovoltaic cells. <i>Applied Physics Letters</i> , 2012, 101, 083904.	1.5	51
57	Energy transfer process from polymer to rare earth complexes. <i>Synthetic Metals</i> , 1997, 91, 151-154.	2.1	49
58	A schiff base zinc complex and its electroluminescent properties. <i>Thin Solid Films</i> , 2007, 515, 4080-4084.	0.8	48
59	Enhanced electroluminescence of europium(III) complex by terbium(III) substitution in organic light emitting diodes. <i>Thin Solid Films</i> , 2000, 363, 208-210.	0.8	45
60	10.5% efficient polymer and amorphous silicon hybrid tandem photovoltaic cell. <i>Nature Communications</i> , 2015, 6, 6391.	5.8	45
61	Natural Photosynthetic Carotenoids for Solution-Processed Organic Bulk-Heterojunction Solar Cells. <i>Journal of Physical Chemistry C</i> , 2013, 117, 804-811.	1.5	40
62	Organic electroluminescent devices using terbium chelates as the emitting layers. <i>Synthetic Metals</i> , 1997, 91, 263-265.	2.1	38
63	Triphenylamine-functionalized rhenium (I) complex as a highly efficient yellow-green emitter in electrophosphorescent devices. <i>Applied Physics Letters</i> , 2006, 89, 243511.	1.5	38
64	The Critical Role of Processing and Morphology in Determining Degradation Rates in Polymer Solar Cells. <i>Advanced Energy Materials</i> , 2011, 1, 124-131.	10.2	35
65	White light emission from OEL devices based on organic dysprosium-complex. <i>Synthetic Metals</i> , 2000, 111-112, 43-45.	2.1	34
66	Observation of red intraligand electrophosphorescence from a stilbene-containing Re(I) complex. <i>Applied Physics Letters</i> , 2004, 85, 4786-4788.	1.5	33
67	Soluble squaraine derivatives for 4.9% efficient organic photovoltaic cells. <i>RSC Advances</i> , 2014, 4, 42804-42807.	1.7	31
68	Fullerene derivatives as electron donor for organic photovoltaic cells. <i>Applied Physics Letters</i> , 2013, 103, 203301.	1.5	27
69	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.	1.4	26
70	Electroluminescence from Singlet Excited-State of the Exciplex between (2,3-Dicarbonitrilopyrazino[2,3-f][1,10]phenanthroline)Re(CO) <sub>3</sub> Cl and CBP. <i>Journal of Physical Chemistry C</i> , 2008, 112, 3920-3925.	1.5	25
71	Improved performance of electrophosphorescent devices based on Re(CO) <sub>3</sub> Clâ€¦dipyrido[3,2â€¦:2â€¦,3â€¦]phenazine. <i>Applied Physics Letters</i> , 2006, 88, 093507.	1.5	24
72	A terbium (III) complex with triphenylamine-functionalized ligand for organic electroluminescent device. <i>Journal of Luminescence</i> , 2008, 128, 620-624.	1.5	23

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73	Chloroboron (III) subnaphthalocyanine as an electron donor in bulk heterojunction photovoltaic cells. <i>Nanotechnology</i> , 2013, 24, 484007.	1.3	23
74	A squaraine dye as molecular sensitizer for increasing light harvesting in polymer solar cells. <i>Synthetic Metals</i> , 2014, 192, 10-14.	2.1	22
75	Dicyano-functionalized chlorophyll derivatives with ambipolar characteristic for organic photovoltaics. <i>Organic Electronics</i> , 2013, 14, 1972-1979.	1.4	21
76	High fill factor and thermal stability of bilayer organic photovoltaic cells with an inverted structure. <i>Applied Physics Letters</i> , 2015, 106, 053305.	1.5	21
77	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.	1.5	18
78	Fullerene C70 as a p-type donor in organic photovoltaic cells. <i>Applied Physics Letters</i> , 2014, 105, 093301.	1.5	16
79	Electron-transport properties of rare earth chelates in organic electroluminescent devices. <i>Synthetic Metals</i> , 1997, 91, 271-273.	2.1	14
80	Solution-Processed Organic Photovoltaics Based on Indoline Dye Molecules Developed in Dye-Sensitized Solar Cells. <i>Molecules</i> , 2013, 18, 3107-3117.	1.7	14
81	Organic Light-Emitting Diode Using Eu <sup>3+</sup> Polymer Complex as an Emitter. <i>Japanese Journal of Applied Physics</i> , 1999, 38, L46-L48.	0.8	13
82	Comparison of the Solution and Vacuum-Processed Squaraine:Fullerene Small-Molecule Bulk Heterojunction Solar Cells. <i>Frontiers in Chemistry</i> , 2018, 6, 412.	1.8	11
83	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.	1.3	10
84	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.	2.7	10
85	Rhenium(I) complex as an electron acceptor in a photovoltaic device. <i>Journal of Alloys and Compounds</i> , 2007, 432, L15-L17.	2.8	9
86	Tandem Solar Cell—Concept and Practice in Organic Solar Cells. <i>Topics in Applied Physics</i> , 2015, , 315-346.	0.4	8
87	Soluble dendrimers europium(III) $\beta^2$ -diketonate complex for organic memory devices. <i>Thin Solid Films</i> , 2008, 516, 3123-3127.	0.8	6
88	Redistribution of carriers in OEL devices by inserting a thin charge-carrier blocking layer. <i>Synthetic Metals</i> , 1997, 91, 275-277.	2.1	5
89	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, 654-658.	2.0	3
90	Indoline-based donor molecule for efficient co-evaporated organic photovoltaics. <i>Organic Electronics</i> , 2013, 14, 2210-2215.	1.4	2

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91	Inverted Planar Structure of Perovskite Solar Cells. , 2016, , 307-324.		2