

Huiqiong Zhou

List of Publications by Year in descending order

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111
papers

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times ranked

5951
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent advances in non-fullerene organic photovoltaics enabled by green solvent processing. <i>Nanotechnology</i> , 2022, 33, 072002.	1.3	20
2	High Efficiency and Stable Perovskite Solar Cells Enabled by Low-Dimensional Perovskite Surface Modifiers. <i>Solar Rrl</i> , 2022, 6, .	3.1	15
3	Light Managements and Transparent Electrodes for Semitransparent Organic and Perovskite Solar Cells. <i>Solar Rrl</i> , 2022, 6, .	3.1	14
4	High fill factor organic solar cells with increased dielectric constant and molecular packing density. <i>Joule</i> , 2022, 6, 444-457.	11.7	117
5	Adenosine Triphosphate Disodium Modified Hole Transport Layer for Efficient Inverted Perovskite Solar Cells. <i>ChemNanoMat</i> , 2022, 8, .	1.5	2
6	Recent progress in cathode interlayer materials for non-fullerene organic solar cells. <i>EcoMat</i> , 2022, 4, .	6.8	44
7	Pseudohalide-Assisted Growth of Oriented Large Grains for High-Performance and Stable 2D Perovskite Solar Cells. <i>ACS Energy Letters</i> , 2022, 7, 1842-1849.	8.8	29
8	Regulating phase separation and molecular stacking by introducing siloxane to small-molecule donors enables high efficiency all-small-molecule organic solar cells. <i>Energy and Environmental Science</i> , 2022, 15, 2937-2947.	15.6	33
9	On the Understandings of Dielectric Constant and Its Impacts on the Photovoltaic Efficiency in Organic Solar Cells. <i>Chinese Journal of Chemistry</i> , 2021, 39, 381-390.	2.6	48
10	Molecular dispersion enhances photovoltaic efficiency and thermal stability in quasi-bilayer organic solar cells. <i>Science China Chemistry</i> , 2021, 64, 116-126.	4.2	34
11	Molecular Engineering for Two-Dimensional Perovskites with Photovoltaic Efficiency Exceeding 18%. <i>Matter</i> , 2021, 4, 582-599.	5.0	123
12	Nanoscale heterogeneous distribution of surface energy at interlayers in organic bulk-heterojunction solar cells. <i>Joule</i> , 2021, 5, 3154-3168.	11.7	45
13	Efficient and Stable Quasi-2D Perovskite Solar Cells Enabled by Thermal-Aged Precursor Solution. <i>Advanced Functional Materials</i> , 2021, 31, 2107675.	7.8	14
14	Enhanced stability in perovskite solar cells via room-temperature processing. <i>Journal of Materials Chemistry C</i> , 2021, 9, 14749-14756.	2.7	8
15	Strongly Reduced Non-Radiative Voltage Losses in Organic Solar Cells Prepared with Sequential Film Deposition. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 10663-10670.	2.1	8
16	Peculiar Steric Hindrance Assists Monoclinic Phase Formation toward High-Quality All-Inorganic Perovskites. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 11228-11237.	2.1	7
17	Effect of defects on the electronic structure of a PbI ₂ /MoS ₂ van der Waals heterostructure: A first-principles study. <i>Science China: Physics, Mechanics and Astronomy</i> , 2020, 63, 1.	2.0	1
18	Sequential molecular doping of non-fullerene organic solar cells without hole transport layers. <i>Journal of Materials Chemistry C</i> , 2020, 8, 158-164.	2.7	16

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19	Control of Nanomorphology in Fullerene-Free Organic Solar Cells by Lewis Acid Doping with Enhanced Photovoltaic Efficiency. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 667-677.	4.0	24
20	Rational Design of 2D π -Conjugated Polysquaraines for Both Fullerene and Nonfullerene Polymer Solar Cells. <i>Macromolecular Chemistry and Physics</i> , 2020, 221, 1900439.	1.1	6
21	Long-term stable and highly efficient perovskite solar cells with a formamidinium chloride (FACl) additive. <i>Journal of Materials Chemistry A</i> , 2020, 8, 17756-17764.	5.2	38
22	Role of interface properties in organic solar cells: from substrate engineering to bulk-heterojunction interfacial morphology. <i>Materials Chemistry Frontiers</i> , 2020, 4, 2863-2880.	3.2	61
23	Water-Assisted Crystal Growth in Quasi-2D Perovskites with Enhanced Charge Transport and Photovoltaic Performance. <i>Advanced Energy Materials</i> , 2020, 10, 2001832.	10.2	52
24	Fast Field-Insensitive Charge Extraction Enables High Fill Factors in Polymer Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 38460-38469.	4.0	8
25	Revealing the Interfacial Photoreduction of MoO_3 with P3HT from the Molecular Weight-Dependent Cu -Burn-In-Degradation of P3HT:PC ₆₁ BM Solar Cells. <i>ACS Applied Energy Materials</i> , 2020, 3, 9714-9723.	2.5	13
26	A biopolymeric buffer layer improves device efficiency and stability in inverted organic solar cells. <i>Journal of Materials Chemistry C</i> , 2020, 8, 15795-15803.	2.7	18
27	A surface modifier enhances the performance of the all-inorganic CsPbI_2Br perovskite solar cells with efficiencies approaching 15%. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 17847-17856.	1.3	23
28	On the understanding of energy loss and device fill factor trade-offs in non-fullerene organic solar cells with varied energy levels. <i>Nano Energy</i> , 2020, 75, 105032.	8.2	34
29	Interfacial Chemical Bridge Constructed by Zwitterionic Sulfamic Acid for Efficient and Stable Perovskite Solar Cells. <i>ACS Applied Energy Materials</i> , 2020, 3, 3186-3192.	2.5	37
30	Mediated Non-geminate Recombination in Ternary Organic Solar Cells Through a Liquid Crystal Guest Donor. <i>Frontiers in Chemistry</i> , 2020, 8, 21.	1.8	9
31	Non-Preheating Processed Quasi-2D Perovskites for Efficient and Stable Solar Cells. <i>Small</i> , 2020, 16, e1906997.	5.2	24
32	Highly Efficient Charge Generation in Single-Donor-Component-Based π - κ - π Structure Organic Solar Cells. <i>Solar Rrl</i> , 2020, 4, 1900580.	3.1	14
33	Built-in voltage enhanced by <i>in situ</i> electrochemical polymerized undoped conjugated hole-transporting modifiers in organic solar cells. <i>Journal of Materials Chemistry C</i> , 2020, 8, 2676-2681.	2.7	16
34	Understanding Temperature-Dependent Charge Extraction and Trapping in Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2020, 30, 2000550.	7.8	31
35	Genomic and biological features of a novel orbivirus isolated from mosquitoes, in China. <i>Virus Research</i> , 2020, 285, 197990.	1.1	7
36	A Comparative Study on Hole Transfer Inversely Correlated with Driving Force in Two Non-Fullerene Organic Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 4110-4116.	2.1	21

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37	Fine Multi-Phase Alignments in 2D Perovskite Solar Cells with Efficiency over 17% via Slow Post-Annealing. <i>Advanced Materials</i> , 2019, 31, e1903889.	11.1	178
38	Polydopamine/ZnO electron transport layers enhance charge extraction in inverted non-fullerene organic solar cells. <i>Journal of Materials Chemistry C</i> , 2019, 7, 10795-10801.	2.7	38
39	Air-stable formamidinium/methylammonium mixed lead iodide perovskite integral microcrystals with low trap density and high photo-responsivity. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 3106-3113.	1.3	16
40	Exquisite modulation of ZnO nanoparticle electron transporting layer for high-performance fullerene-free organic solar cell with inverted structure. <i>Journal of Materials Chemistry A</i> , 2019, 7, 3570-3576.	5.2	58
41	A polyaspartic acid sodium interfacial layer enhances surface trap passivation in perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2019, 7, 23895-23903.	5.2	37
42	Cathode interfacial layer-free all small-molecule solar cells with efficiency over 12%. <i>Journal of Materials Chemistry A</i> , 2019, 7, 15944-15950.	5.2	36
43	Facile development of CoAl-LDHs/RGO nanocomposites as photocatalysts for efficient hydrogen generation from water splitting under visible-light irradiation. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 1753-1760.	3.0	44
44	Similar or different: the same Spiro-core but different alkyl chains with apparently improved device performance of perovskite solar cells. <i>Science China Chemistry</i> , 2019, 62, 739-745.	4.2	27
45	Regulating Bulk-Heterojunction Molecular Orientations through Surface Free Energy Control of Hole-Transporting Layers for High-Performance Organic Solar Cells. <i>Advanced Materials</i> , 2019, 31, e1806921.	11.1	86
46	Community based serosurvey of naïve population indicate no local circulation of Zika virus in an hyper endemic area of China 2016. <i>Journal of Infection</i> , 2019, 79, 61-74.	1.7	1
47	Management of the crystallization in two-dimensional perovskite solar cells with enhanced efficiency within a wide temperature range and high stability. <i>Nano Energy</i> , 2019, 58, 706-714.	8.2	52
48	Understanding the Impact of Bismuth Heterovalent Doping on the Structural and Photophysical Properties of $\text{CH}_3\text{NH}_3\text{PbBr}_3$ Halide Perovskite Crystals with Near-IR Photoluminescence. <i>Chemistry - A European Journal</i> , 2019, 25, 5480-5488.	1.7	42
49	The Positive Function of Incorporation of Small Molecules into Perovskite Materials for High-Efficient Stable Solar Cells. <i>Solar Rrl</i> , 2019, 3, 1800327.	3.1	16
50	Halogen bonding reduces intrinsic traps and enhances charge mobilities in halide perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2019, 7, 6840-6848.	5.2	41
51	A universal approach for optimizing charge extraction in electron transporting layer-free organic solar cells via Lewis base doping. <i>Journal of Materials Chemistry A</i> , 2019, 7, 25808-25817.	5.2	11
52	Interfacial Modification in Organic and Perovskite Solar Cells. <i>Advanced Materials</i> , 2019, 31, e1805708.	11.1	106
53	Fluorination with an enlarged dielectric constant prompts charge separation and reduces bimolecular recombination in non-fullerene organic solar cells with a high fill factor and efficiency > 13%. <i>Nano Energy</i> , 2019, 56, 494-501.	8.2	59
54	The effect of one- or two-dimensional conjugated benzodithiophene in polymeric donors on the device performance of non-fullerene organic solar cells. <i>Dyes and Pigments</i> , 2019, 163, 221-226.	2.0	2

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55	Effects of processing additives in non-fullerene organic bulk heterojunction solar cells with efficiency >11%. Chinese Chemical Letters, 2019, 30, 217-221.	4.8	17
56	Synthesis, structure and material properties of thiopyranylidene-based asymmetrical squaraines. Dyes and Pigments, 2018, 154, 137-144.	2.0	7
57	A Biopolymer Heparin Sodium Interlayer Anchoring TiO ₂ and MAPbI ₃ Enhances Trap Passivation and Device Stability in Perovskite Solar Cells. Advanced Materials, 2018, 30, e1706924.	11.1	199
58	Interrater reliability and radiation dosage of oblique coronal computed tomography for sacroiliitis in comparison with axial computed tomography. British Journal of Radiology, 2018, 91, 20150700.	1.0	6
59	Improved Electron Transport with Reduced Contact Resistance in N-Doped Polymer Field-Effect Transistors with a Dimeric Dopant. Macromolecular Rapid Communications, 2018, 39, e1700726.	2.0	9
60	Effects of Nonradiative Losses at Charge Transfer States and Energetic Disorder on the Open-Circuit Voltage in Nonfullerene Organic Solar Cells. Advanced Functional Materials, 2018, 28, 1705659.	7.8	77
61	Ambipolar charge transport in a bis-diketopyrrolopyrrole small molecule semiconductor with tunable energetic disorder. Physical Chemistry Chemical Physics, 2018, 20, 1787-1793.	1.3	6
62	Ultra-narrow bandgap non-fullerene organic solar cells with low voltage losses and a large photocurrent. Journal of Materials Chemistry A, 2018, 6, 19934-19940.	5.2	33
63	Understanding the Passivation Mechanisms and Opto-Electronic Spectral Response in Methylammonium Lead Halide Perovskite Single Crystals. ACS Applied Materials & Interfaces, 2018, 10, 35580-35588.	4.0	19
64	Retardation of Trap-Assisted Recombination in Lead Halide Perovskite Solar Cells by a Dimethylbiguanide Anchor Layer. Chemistry - A European Journal, 2018, 25, 1076-1082.	1.7	9
65	Polyamino acid interlayer facilitates electron extraction in narrow band gap fullerene-free organic solar cells with an outstanding short-circuit current. Nano Energy, 2018, 50, 169-175.	8.2	50
66	Understanding the temperature-dependent charge transport, structural variation and photoluminescent properties in methylammonium lead halide perovskite single crystals. Journal of Materials Chemistry C, 2018, 6, 6556-6564.	2.7	13
67	On the understanding of energetic disorder, charge recombination and voltage losses in all-polymer solar cells. Journal of Materials Chemistry C, 2018, 6, 7855-7863.	2.7	26
68	The epidemiological characteristics and molecular phylogeny of the dengue virus in Guangdong, China, 2015. Scientific Reports, 2018, 8, 9976.	1.6	11
69	Serologic and behavioral risk survey of workers with wildlife contact in China. PLoS ONE, 2018, 13, e0194647.	1.1	8
70	A conjugated microporous polymer film fabricated by <i>in situ</i> electro-chemical deposition as a hole transporting layer in organic photovoltaics. Journal of Materials Chemistry C, 2018, 6, 9044-9048.	2.7	27
71	High efficiency non-fullerene organic solar cells without electron transporting layers enabled by Lewis base anion doping. Nano Energy, 2018, 51, 736-744.	8.2	28
72	A Highly Efficient Non-Fullerene Organic Solar Cell with a Fill Factor over 0.80 Enabled by a Fine-Tuned Hole-Transporting Layer. Advanced Materials, 2018, 30, e1801801.	11.1	360

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73	Evolutionary and phylodynamic analyses of Dengue virus serotype I in Guangdong Province, China, between 1985 and 2015. <i>Virus Research</i> , 2018, 256, 201-208.	1.1	12
74	8-Hydroquinolotolithium as a Highly Effective Solution-Processable Cathode Interfacial Material in Inverted Perovskite Solar Cells with an Efficiency Over 19%. <i>Solar Rrl</i> , 2018, 2, 1800084.	3.1	6
75	Electron Transport and Nanomorphology in Solution-Processed Polymeric Semiconductor n-Doped with an Air-Stable Organometallic Dimer. <i>Advanced Electronic Materials</i> , 2017, 3, 1600546.	2.6	15
76	Improved electron extraction by a ZnO nanoparticle interlayer for solution-processed polymer solar cells. <i>RSC Advances</i> , 2017, 7, 12400-12406.	1.7	17
77	Evaluation of a real-time impedance analysis platform on fungal infection. <i>Journal of Microbiological Methods</i> , 2017, 136, 88-93.	0.7	0
78	Rapid Production of Virus Protein Microarray Using Protein Microarray Fabrication through Gene Synthesis (PAGES). <i>Molecular and Cellular Proteomics</i> , 2017, 16, 288-299.	2.5	8
79	Temperature-dependent charge transport in solution-processed perovskite solar cells with tunable trap concentration and charge recombination. <i>Journal of Materials Chemistry C</i> , 2017, 5, 9376-9382.	2.7	44
80	Understanding charge transport and recombination losses in high performance polymer solar cells with non-fullerene acceptors. <i>Journal of Materials Chemistry A</i> , 2017, 5, 17230-17239.	5.2	66
81	Returning ex-patriot Chinese to Guangdong, China, increase the risk for local transmission of Zika virus. <i>Journal of Infection</i> , 2017, 75, 356-367.	1.7	15
82	Incorporating an Inert Polymer into the Interlayer Passivates Surface Defects in Methylammonium Lead Halide Perovskite Solar Cells. <i>Chemistry - A European Journal</i> , 2017, 23, 14650-14657.	1.7	28
83	Identification and genetic characterization of Zika virus isolated from an imported case in China. <i>Infection, Genetics and Evolution</i> , 2017, 48, 40-46.	1.0	4
84	Transformation of Tourism in Beijing after the 2008 Summer Olympics: An Analysis of the Impacts in 2014. <i>International Journal of Tourism Research</i> , 2016, 18, 277-285.	2.1	15
85	A family cluster of imported ZIKV cases: Viremia period may be longer than previously reported. <i>Journal of Infection</i> , 2016, 73, 300-303.	1.7	10
86	The epidemiological characteristics and genetic diversity of dengue virus during the third largest historical outbreak of dengue in Guangdong, China, in 2014. <i>Journal of Infection</i> , 2016, 72, 80-90.	1.7	37
87	Temperature Tunable Self-Doping in Stable Diradicaloid Thin-Film Devices. <i>Advanced Materials</i> , 2015, 27, 7412-7419.	11.1	63
88	Polymer Homo-Tandem Solar Cells with Best Efficiency of 11.3%. <i>Advanced Materials</i> , 2015, 27, 1767-1773.	11.1	408
89	Solution-Processed pH-Neutral Conjugated Polyelectrolyte Improves Interfacial Contact in Organic Solar Cells. <i>ACS Nano</i> , 2015, 9, 371-377.	7.3	73
90	High-Performance Solution-Processed Small-Molecule Solar Cells Based on a Dithienogermole-Containing Molecular Donor. <i>Advanced Energy Materials</i> , 2015, 5, 1400987.	10.2	45

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91	Enhancement of the Photoresponse in Organic Field-Effect Transistors by Incorporating Thin DNA Layers. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 244-249.	7.2	17
92	Entecavir-associated myopathy: A case report and literature review. <i>Muscle and Nerve</i> , 2014, 49, 610-614.	1.0	10
93	Conductive Conjugated Polyelectrolyte as Hole-Transporting Layer for Organic Bulk Heterojunction Solar Cells. <i>Advanced Materials</i> , 2014, 26, 780-785.	11.1	193
94	Molecular Doping Enhances Photoconductivity in Polymer Bulk Heterojunction Solar Cells. <i>Advanced Materials</i> , 2013, 25, 7038-7044.	11.1	173
95	High-Efficiency Polymer Solar Cells Enhanced by Solvent Treatment. <i>Advanced Materials</i> , 2013, 25, 1646-1652.	11.1	455
96	Facile Doping of Anionic Narrow-Band-Gap Conjugated Polyelectrolytes During Dialysis. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 12874-12878.	7.2	129
97	High-Hole-Mobility Field-Effect Transistors Based on <i>Co</i> -Benzobisthiadiazole-Quaterthiophene. <i>Advanced Materials</i> , 2012, 24, 6164-6168.	11.1	105
98	Chikungunya Outbreak in Guangdong Province, China, 2010. <i>Emerging Infectious Diseases</i> , 2012, 18, 493-495.	2.0	60
99	New Configuration of Solid-State Neutron Detector Made Possible with Solution-Based Semiconductor Processing. <i>Advanced Functional Materials</i> , 2012, 22, 3279-3283.	7.8	3
100	Solution-Based In Situ Synthesis and Fabrication of Ultrasensitive CdSe Photoconductors. <i>Advanced Materials</i> , 2010, 22, 5366-5369.	11.1	14
101	Enhanced Photoelectrochemical Detection of Bioaffinity Reactions by Vertically Oriented Au Nanobranches Complexed with a Biotinylated Polythiophene Derivative. <i>Sensors</i> , 2009, 9, 1094-1107.	2.1	15
102	An inorganic-organic intercalated nanocomposite, BEDT-TTF into layered MnPS ₃ . <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2008, 62, 293-296.	1.6	8
103	Synthesis and Luminescent Properties of Two Copolymers Containing Dithienothiophene and Fluorene. <i>Chemistry Letters</i> , 2007, 36, 1206-1207.	0.7	9
104	Synthesis, characterization and magnetic properties of transition metal salen complexes intercalated into layered MnPS ₃ . <i>Journal of Alloys and Compounds</i> , 2007, 432, 247-252.	2.8	31
105	The intercalation of C ₆₀ -containing PEO into layered MnPS ₃ . <i>Polymer</i> , 2007, 48, 3256-3261.	1.8	13
106	Intercalation of amino acids into layered MnPS ₃ : Synthesis, characterization and magnetic properties. <i>Materials Research Bulletin</i> , 2006, 41, 2161-2167.	2.7	9
107	A New Organic-Inorganic Hybrid Nanocomposite, BEDT-TTF Intercalated into Layered FePS ₃ . <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2005, 53, 205-209.	1.6	6
108	Synthesis and characterization of intercalation compounds of stilbazolium chromophores into layered vanadyl phosphate. <i>Journal of Materials Chemistry</i> , 2005, 15, 1637.	6.7	3

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109	Synthesis and Magnetic Characterization of TTM-TTF intercalated into Lamellar MnPS ₃ . Synthetic Metals, 2005, 152, 485-488.	2.1	5
110	The Role of Ending Groups in Non-Fullerene Acceptors for Interfacial Modification in Perovskite Solar Cells. Solar Rrl, 0, , .	3.1	1
111	Interfacial Molecular Doping at Donor and Acceptor Interface in Bilayer Organic Solar Cells. Solar Rrl, 0, , .	3.1	1