## Zhiqun He

## List of Publications by Year in descending order

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101 papers	1,741 citations	19 h-index	330143 37 g-index
105	105	105	2521
all docs	docs citations	times ranked	citing authors

#	Article	IF	CITATIONS
1	Employing liquid crystal material as regulator to enhance performance of photomultiplication type polymer photodetectors. Chemical Engineering Journal, 2022, 427, 131802.	12.7	71
2	Molecular interactions and functionalities of an organic additive in a perovskite semiconducting device: a case study towards high performance solar cells. Journal of Materials Chemistry A, 2022, 10, 2876-2887.	10.3	14
3	Enhancing performance of organic-inorganic perovskite solar cells using super halogen additive. Organic Electronics, 2022, 108, 106548.	2.6	5
4	Tuning Molecular Interaction in Polymer Solar Cells via a Multifunctional Discotic Component to Enhance Photovoltaic Response. Solar Rrl, 2022, 6, .	5.8	0
5	Controlled Crystallization of CsRbâ€Based Multiâ€Cation Perovskite Using a Blended Sequential Process for Highâ€Performance Solar Cells. Solar Rrl, 2021, 5, 2100050.	5 <b>.</b> 8	10
6	Interface Engineering of 2D/3D Perovskite Heterojunction Improves Photovoltaic Efficiency and Stability. Solar Rrl, 2021, 5, 2100072.	5.8	21
7	Smart Strategy: Transparent Hole-Transporting Polymer as a Regulator to Optimize Photomultiplication-type Polymer Photodetectors. ACS Applied Materials & Interfaces, 2021, 13, 21565-21572.	8.0	55
8	8â€Hydroxyquinoline Metal Complexes as Cathode Interfacial Materials in Inverted Planar Perovskite Solar Cells. Advanced Materials Interfaces, 2021, 8, 2100506.	3.7	2
9	Perovskite Passivation with a Bifunctional Molecule 1,2â€Benzisothiazolinâ€3â€One for Efficient and Stable Planar Solar Cells. Solar Rrl, 2021, 5, 2100472.	5 <b>.</b> 8	5
10	Bright all-solution-processed CsPbBr3 perovskite light emitting diodes optimized by quaternary ammonium salt. Current Applied Physics, 2021, 31, 60-67.	2.4	3
11	Optimization of a SnO <sub>2</sub> -Based Electron Transport Layer Using Zirconium Acetylacetonate for Efficient and Stable Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2021, 13, 54579-54588.	8.0	11
12	Laminating Fabrication of Bifacial Organic-Inorganic Perovskite Solar Cells. International Journal of Photoenergy, 2020, 2020, 1-8.	2.5	6
13	Perovskite Solar Cells: Exploring Electron Transporting Layer in Combination with a Polyelectrolyte for nâ€iâ€p Perovskite Solar Cells (Adv. Mater. Interfaces 17/2020). Advanced Materials Interfaces, 2020, 7, 2070094.	3.7	0
14	Non-doped long-wave red electroluminescence for fumaronitrile with fluorenyl or biphenyl group. Optical Materials, 2020, 108, 110425.	3.6	1
15	Exploring Electron Transporting Layer in Combination with a Polyelectrolyte for nâ€iâ€p Perovskite Solar Cells. Advanced Materials Interfaces, 2020, 7, 2000412.	3.7	13
16	Ratiometric thermal sensing based on dual emission of YBO3:Ce3+, Tb3+. Journal of Alloys and Compounds, 2020, 833, 155011.	5.5	15
17	Secondary Grain Growth in Organic–Inorganic Perovskite Films with Ethylamine Hydrochloride Additives for Highly Efficient Solar Cells. ACS Applied Materials & Interfaces, 2020, 12, 20026-20034.	8.0	25
18	Enlarging crystal grains with ionic liquid to enhance the performance of perovskite solar cells. Organic Electronics, 2020, 84, 105805.	2.6	11

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19	Additional Organicâ€Solventâ€Rinsing Process to Enhance Perovskite Photovoltaic Performance. Advanced Electronic Materials, 2019, 5, 1900244.	5.1	10
20	Exploring alkylthiol additives in PBDB-T:ITIC blended active layers for solar cell applications*. Chinese Physics B, 2019, 28, 088802.	1.4	3
21	Perovskite Solar Cells: Additional Organicâ€Solventâ€Rinsing Process to Enhance Perovskite Photovoltaic Performance (Adv. Electron. Mater. 10/2019). Advanced Electronic Materials, 2019, 5, 1970053.	5.1	1
22	Improved fill factor in inverted planar perovskite solar cells with zirconium acetate as the hole-and-ion-blocking layer. Physical Chemistry Chemical Physics, 2018, 20, 7395-7400.	2.8	7
23	Synthesis and investigation on optoelectronic properties of mesogenic triphenylene–perylene dyads linked by ethynylphenyl bridges. New Journal of Chemistry, 2018, 42, 3211-3221.	2.8	11
24	Effective approach for reducing the migration of ions and improving the stability of organic–inorganic perovskite solar cells. Journal of Alloys and Compounds, 2018, 741, 489-494.	5.5	20
25	Tailoring a dynamic crystalline process during the conversion of lead-halide perovskite layer to achieve high performance solar cells. Journal of Materials Chemistry A, 2018, 6, 24793-24804.	10.3	24
26	C60-assisted crystal engineering for perovskite solar cells with enhanced efficiency and stability. Organic Electronics, 2018, 63, 276-282.	2.6	15
27	Exploring photophysical processes in a ternary-blended polymer solar cell. Polymer, 2018, 153, 398-407.	3.8	9
28	Synthesis and investigation on liquid crystal and optical properties of dyads based on triphenylene and perylene. RSC Advances, 2017, 7, 17030-17037.	3.6	11
29	Effects of surface morphology on the ionic capacitance and performance of perovskite solar cells. Japanese Journal of Applied Physics, 2017, 56, 090305.	1.5	7
30	CH <sub>3</sub> NH <sub>3</sub> I post-treatment improves the performance of perovskite solar cells via eliminating the impure phases. Functional Materials Letters, 2017, 10, 1750049.	1.2	4
31	Non-doped red-green-blue electroluminescence for fumaronitrile and fluorene bridge with pyrenyl or phenanthrylamino group. Thin Solid Films, 2016, 619, 166-173.	1.8	1
32	Structural, electronic, and magnetic properties of 3D metal trioxide and tetraoxide superhalogen cluster-doped monolayer BN. Physics Letters, Section A: General, Atomic and Solid State Physics, 2016, 380, 2300-2306.	2.1	17
33	Electronic and magnetic properties of MnF3(4) superhalogen cluster-sandwiched bilayer graphene: First-principles calculations. Computational Materials Science, 2016, 124, 316-322.	3.0	7
34	Understanding the phase behavior from multiple-step isothermally crystallized poly(3-hexylthiophene)s. Polymer, 2016, 98, 61-69.	3.8	11
35	Orange and white electrophosphorescence based on triphenylamine-fluorenyl trifluoromethylpyridine iridium complexes. Synthetic Metals, 2016, 215, 95-103.	3.9	5
36	Electron transporting organic materials with an exceptional large scale homeotropic molecular orientation. Physical Chemistry Chemical Physics, 2016, 18, 8554-8560.	2.8	12

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37	Organic–Inorganic Perovskite Lightâ€Emitting Electrochemical Cells with a Large Capacitance. Advanced Functional Materials, 2015, 25, 7226-7232.	14.9	87
38	Solid Electrolytes: Organic-Inorganic Perovskite Light-Emitting Electrochemical Cells with a Large Capacitance (Adv. Funct. Mater. 46/2015). Advanced Functional Materials, 2015, 25, 7243-7243.	14.9	1
39	Stable orange and white electrophosphorescence based on spirobifluorenyltrifluoromethylpyridine iridium complexes. Synthetic Metals, 2015, 210, 214-222.	3.9	8
40	A convenient one-step reaction leading to a key discotic intermediate: mono-hydroxy-triphenylene at multi-gram scale. Tetrahedron Letters, 2015, 56, 700-705.	1.4	10
41	Anomalously large interface charge in polarity-switchable photovoltaic devices: an indication of mobile ions in organic–inorganic halide perovskites. Energy and Environmental Science, 2015, 8, 1256-1260.	30.8	202
42	Dynamic interface charge governing the current–voltage hysteresis in perovskite solar cells. Physical Chemistry Chemical Physics, 2015, 17, 9613-9618.	2.8	88
43	Spatially separated charge densities of electrons and holes in organic-inorganic halide perovskites. Journal of Applied Physics, 2015, 117, 074901.	2.5	12
44	Exploring photocurrent output from donor/acceptor bulk-heterojunctions by monitoring exciton quenching. Chinese Physics B, 2015, 24, 063301.	1.4	3
45	Efficient organic solar cells using copper(I) iodide (CuI) hole transport layers. Applied Physics Letters, 2015, 106, .	3.3	73
46	A π-Extended Donor–Acceptor–Donor Triphenylene Twin Linked via a Pyrazine Bridge. Organic Letters, 2015, 17, 3286-3289.	4.6	17
47	Enhancement of polymer photovoltaic performances by doping with modified carbon black nanoparticles. Applied Physics A: Materials Science and Processing, 2015, 120, 601-607.	2.3	0
48	Effect of Crystallinity of Fullerene Derivatives on Doping Density in the Organic Bulk Heterojunction Layer in Polymer Solar Cells. Chinese Physics Letters, 2015, 32, 056801.	3.3	2
49	Solution-processable phosphorescence based on iridium-cored small molecules with the trifluoromethyl group. Optical Materials, 2015, 42, 137-143.	3.6	8
50	A preliminary investigation into hybrid photovoltaic cells with organic phthalocyanines and amorphous silicon heterojunction. Journal Physics D: Applied Physics, 2015, 48, 195102.	2.8	9
51	Spirobifluorene and biphenylaminophenyl fluorene with dimesitylboron as multifunctional electroluminescent materials. Optical Materials, 2015, 50, 154-161.	3.6	4
52	Improved Performance of Hybrid White Organic Light-emitting Diodes via Adjusting The Mixing Ratio in Spacer Layer. Chinese Journal of Luminescence, 2015, 36, 685-691.	0.5	0
53	Recent Developments of Azatriphenylene Materials as <em>n</em> -Type Organic Semiconductors. Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica, 2014, 30, 1001-1016.	4.9	1
54	Manipulating hybrid structures of polymer/ <i>a</i> -Si for thin film solar cells. Applied Physics Letters, 2014, 104, .	3.3	14

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55	Effect of doping on the short-circuit current and open-circuit voltage of polymer solar cells. Journal of Applied Physics, 2014, 116, .	2.5	19
56	Modeling and simulation of bulk heterojunction polymer solar cells. Solar Energy Materials and Solar Cells, 2014, 127, 67-86.	6.2	60
57	Non-doped red–green–blue electroluminescent devices based on fluorenyl and phenanthryl phenylamino derivatives. Thin Solid Films, 2014, 562, 299-306.	1.8	11
58	A preliminary development in hybrid a-silicon/polymer solar cells. Renewable Energy, 2014, 63, 145-152.	8.9	9
59	Electronic and magnetic properties of 3d-metal trioxides superhalogen cluster-doped monolayer MoS2: A first-principles study. Physics Letters, Section A: General, Atomic and Solid State Physics, 2014, 378, 1651-1656.	2.1	20
60	Formation and Suppression of Multi-Component Exciplex in White Organic Light Emitting Devices. Guangxue Xuebao/Acta Optica Sinica, 2014, 34, 0823002.	1.2	1
61	Effect of multiple temperature-step annealing on the performances of polymer solar cells. Wuli Xuebao/Acta Physica Sinica, 2014, 63, 048801.	0.5	1
62	Expanded Porphyrin-like Structures Based on Twinned Triphenylenes. Journal of Organic Chemistry, 2013, 78, 9505-9511.	3.2	32
63	Trap-induced light enhancement from a polymer light emitting device. Applied Physics Letters, 2013, 103, 043306.	3.3	4
64	Optimization of a poly(p -phenylene benzobisoxazole)-based light-emitting device with a complex cathode structure. Chinese Physics B, 2013, 22, 117805.	1.4	0
65	Non-doped red or blue electroluminescent materials based on fluorenyl-triarylamines with fumaronitrile or fluorene bridge. Thin Solid Films, 2012, 520, 2794-2799.	1.8	8
66	Towards Color Stable Three-band White Organic Light-emitting Diodes. Chinese Journal of Luminescence, 2012, 33, 1095-1100.	0.5	0
67	A Mesogenic Triphenyleneâ^'Peryleneâ^'Triphenylene Triad. Organic Letters, 2011, 13, 764-767.	4.6	71
68	Towards Color Stable Blue Primary for Displays: Suppress Field-Dependent Color Change in a Multilayered Electroluminescent Device. Journal of Display Technology, 2011, 7, 96-104.	1.2	5
69	Synthesis and liquid crystal properties of triphenylene liquid crystals bearing polymerisable acrylate and methacrylate groups. Liquid Crystals, 2011, 38, 943-955.	2.2	10
70	Multifunctional electroluminescent material based on dimesitylboron and $\hat{l}_{\pm}$ -naphthylamino fluorene bridge. Synthetic Metals, 2011, 161, 2323-2328.	3.9	14
71	Improved synthesis of monohydroxytriphenylenes (MHTs)â€"important precursors to discotic liquid crystal families. Tetrahedron Letters, 2011, 52, 77-79.	1.4	21
72	A DIONE APPROACH TO MODIFY THE OPTICAL AND MESOPHASE PROPERTIES OF DISCOTIC TRIPHENYLENE DERIVATIVES. Functional Materials Letters, 2011, 04, 345-349.	1.2	0

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73	Homeotropic alignment through charge-transfer-induced columnar mesophase formation in an unsymmetrically substituted triphenylene derivative. Pure and Applied Chemistry, 2010, 82, 1993-2003.	1.9	21
74	Exploring Reversible Quenching of Fluorescence from a Pyrazolo[3,4â€∢i>b⟨/i>]quinoline Derivative by Protonation. ChemPhysChem, 2010, 11, 2623-2629.	2.1	9
75	The driving force for homeotropic alignment of a triphenylene derivative in a hexagonal columnar mesophase on single substrates. Thin Solid Films, 2010, 518, 1973-1979.	1.8	24
76	Red non-doped electroluminescent dyes based on arylamino fumaronitrile derivatives. Dyes and Pigments, 2010, 85, 86-92.	3.7	26
77	Synthesis and preliminary photovoltaic behavior study of a soluble polyimide containing ruthenium complexes. Polymer Chemistry, 2010, 1, 1048.	3.9	19
78	Synthesis of Crown Ether-Linked Discotic Triphenylenes. Organic Letters, 2010, 12, 472-475.	4.6	44
79	Efficient electrophosphorescence based on 2-(9,9-diethylfluoren-2-yl)-5-trifluoromethylpyridine iridium complexes. Synthetic Metals, 2010, 160, 354-360.	3.9	19
80	Synthesis and light-emitting properties of 2-(N-phenyl-α-naphthylamino) and 2-dimesitylboron-7-(N-phenyl-α-naphthylamino)-9,9-diethylfluorene. Science in China Series B: Chemistry, 2009, 52, 952-960.	0.8	12
81	Nanotubes and Columnar Phase Formation from a Polymer/Discotic Molecule Composite Induced by Geometric Confinement. Molecular Crystals and Liquid Crystals, 2009, 512, 179/[2025]-187/[2033].	0.9	2
82	Study of mesogenic properties and molecular conformation from a heterogeneous tetramer with a triphenylene centre core and three cyanobiphenyl tails. Journal of Molecular Liquids, 2008, 138, 93-99.	4.9	7
83	A Color Stable Blue Light-Emitting Device Using a Pyrazolo[3,4-b]Quinoline Derivative as an Emitter. IEEE Photonics Technology Letters, 2008, 20, 1781-1783.	2.5	14
84	Photoluminescence and Electroluminescence from a Hybrid of Lumogen Red in Nanoporous-Silica. Journal of Nanoscience and Nanotechnology, 2008, 8, 1336-1340.	0.9	10
85	Preliminary photovoltaic response from a polymer containing p-vinylenephenylene amine backbone. Solar Energy Materials and Solar Cells, 2007, 91, 1289-1298.	6.2	11
86	Optical properties of BBOT-doped silica films prepared via sol–gel processing. Journal of Luminescence, 2007, 122-123, 268-271.	3.1	4
87	Thin-layer photoluminescence and electroluminescence observed from pyrazoloquinoline-doped polymer matrices. Journal of Luminescence, 2007, 122-123, 605-609.	3.1	11
88	Observation of disorder effects on charged carrier mobility in triphenylene-based discotic materials. Journal of Luminescence, 2007, 122-123, 931-935.	3.1	10
89	A discotic triphenylene dimer as organic hole transporting material for electroluminescence devices. Journal of Luminescence, 2007, 122-123, 942-945.	3.1	16
90	Electron drift mobility in polystyrene doped with bispyrazolopyridine derivatives. Applied Physics Letters, 2002, 81, 969-971.	3.3	17

## ZHIQUN HE

#	ARTICLE	IF	CITATIONS
91	Phase behaviour and non-periodic crystallisation of random aromatic copolyesters and their side chain bearing systems. Polymer, 2001, 42, 5351-5363.	3.8	6
92	On spherulitic forms in an aromatic polyesteramide. Polymer, 2000, 41, 1157-1165.	3.8	10
93	The efficient blue photoluminescence of pyrazolo-[3,4-b]-quinoline derivatives and the energy transfer in polymer matrices. Journal of Luminescence, 2000, 86, 1-14.	3.1	68
94	An integrated 16/spl times/16 PVDF pyroelectric sensor array. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2000, 47, 1413-1420.	3.0	33
95	Electroluminescence from novel pyrazole-based polymer systems. Journal of Materials Chemistry, 1999, 9, 339-342.	6.7	56
96	Influence of side-chain bearing units on the phase behaviour of a series of copoly(ester ether)s. European Polymer Journal, 1996, 32, 735-746.	5 <b>.</b> 4	7
97	High performance polymers prepared by transformation of processable polyamides. Polymer, 1994, 35, 2218-2221.	3.8	2
98	Crystallization of random aromatic copolyesters containing flexible spacer chains and side-groups. Polymer, 1994, 35, 1322-1325.	3.8	6
99	Discotic liquid crystals with aggregation-induced emission properties based on tetraphenylethylene and triphenylene derivatives. Molecular Crystals and Liquid Crystals, 0, , 1-12.	0.9	2
100	Tuning Molecular Interaction in Polymer Solar Cells via a Multifunctional Discotic Component to Enhance Photovoltaic Response. Solar Rrl, 0, , 2200101.	<b>5.</b> 8	1
101	Multifunctional Organic Additive for Improving the Open Circuit Voltage of Perovskite Solar Cells. Solar Rrl, 0, , .	5.8	5