

# Haichang Zhang

## List of Publications by Year in descending order

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49  
papers

1,387  
citations

304743

22  
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345221

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50  
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50  
docs citations

50  
times ranked

1779  
citing authors

#	ARTICLE	IF	CITATIONS
1	Hydrogen-Bonded Dopant-Free Hole Transport Material Enables Efficient and Stable Inverted Perovskite Solar Cells. <i>CCS Chemistry</i> , 2022, 4, 3084-3094.	7.8	37
2	Room Temperature Phosphorescent (RTP) Thermoplastic Elastomers with Dual and Variable RTP Emission, Photo-Patterning Memory Effect, and Dynamic Deformation RTP Response. <i>Advanced Science</i> , 2022, 9, e2103402.	11.2	40
3	Effectively Unlocking the Potential Molecular Room Temperature Phosphorescence of Pure Carbazole Derivatives. <i>Advanced Optical Materials</i> , 2022, 10, .	7.3	13
4	Evoking ultra-long molecular room temperature phosphorescence of pure carbazole derivatives. <i>Chemical Engineering Journal</i> , 2022, 447, 137458.	12.7	13
5	Side-chain engineering by thymine groups enables hydrogen bond in P-type donor-acceptor polymers with enhanced optoelectronic properties. <i>Dyes and Pigments</i> , 2022, 205, 110565.	3.7	5
6	Hydrogen bonding drives the self-assembling of carbazole-based hole-transport material for enhanced efficiency and stability of perovskite solar cells. <i>Nano Energy</i> , 2022, 101, 107604.	16.0	16
7	Manipulating matrix stacking modes for ultralong-duration organic room-temperature phosphorescence in trace isomer doping systems. <i>Journal of Materials Chemistry C</i> , 2021, 9, 8302-8307.	5.5	10
8	Benzo/Naphthodifuranone-Based Polymers: Effect of Perpendicular-Extended Main Chain $\pi$ -Conjugation on Organic Field-Effect Transistor Performances. <i>Macromolecular Rapid Communications</i> , 2021, 42, e2000703.	3.9	16
9	Exposure to different fractions of diesel exhaust PM <sub>2.5</sub> induces different levels of pulmonary inflammation and acute phase response. <i>Ecotoxicology and Environmental Safety</i> , 2021, 210, 111871.	6.0	14
10	Hydrogen-Bonded Colorimetric and Fluorescence Chemosensor for Fluoride Anion With High Selectivity and Sensitivity: A Review. <i>Frontiers in Chemistry</i> , 2021, 9, 666450.	3.6	8
11	Sulfonated Dopant-Free Hole-Transport Material Promotes Interfacial Charge Transfer Dynamics for Highly Stable Perovskite Solar Cells. <i>Advanced Sustainable Systems</i> , 2021, 5, 2100244.	5.3	27
12	Persistent Organic White-Emitting Afterglow from Ultralong Thermally Activated Delayed Fluorescence and Room-Temperature Phosphorescence. <i>Advanced Optical Materials</i> , 2021, 9, 2101075.	7.3	20
13	Editorial: Design, Synthesis, and Application of Novel $\pi$ -Conjugated Materials”Part â…j. <i>Frontiers in Chemistry</i> , 2021, 9, 771438.	3.6	0
14	Gaining New Insights into Trace Guest Doping Role in Manipulating Organic Crystal Phosphorescence. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 11616-11621.	4.6	11
15	$\pi$ -Conjugated oligomers based on aminobenzodifuranone and diketopyrrolopyrrole. <i>Dyes and Pigments</i> , 2020, 181, 108552.	3.7	35
16	Editorial: Design, Synthesis, and Application of Novel $\pi$ -Conjugated Materials. <i>Frontiers in Chemistry</i> , 2020, 8, 634698.	3.6	3
17	Thionation Enhances the Performance of Polymeric Dopant-Free Hole-Transporting Materials for Perovskite Solar Cells. <i>Advanced Materials Interfaces</i> , 2019, 6, 1901036.	3.7	36
18	Advances in the Stability of Halide Perovskite Nanocrystals. <i>Materials</i> , 2019, 12, 3733.	2.9	33

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19	Conjugated Polymers Containing Building Blocks 1,3,4,6-Tetraarylpyrrolo[3,2-b]pyrrole-2,5-dione (isoDPP), Benzodipyrrolidone (BDP) or Naphthodipyrrolidone (NDP): A Review. <i>Polymers</i> , 2019, 11, 1683.	4.5	18
20	Hydrogen-Bonding-Mediated Solid-State Self-Assembled Isoepindolidiones (isoEpi) Crystal for Organic Field-Effect Transistor. <i>Journal of Physical Chemistry C</i> , 2018, 122, 5888-5895.	3.1	25
21	Thionating iso-diketopyrrolopyrrole-based polymers: from p-type to ambipolar field effect transistors with enhanced charge mobility. <i>Polymer Chemistry</i> , 2018, 9, 1807-1814.	3.9	39
22	Touch-sensitive mechanoluminescence crystals comprising a simple purely organic molecule emit bright blue fluorescence regardless of crystallization methods. <i>Chemical Communications</i> , 2018, 54, 5225-5228.	4.1	42
23	One-coat epoxy coating development for the improvement of UV stability by DPP pigments. <i>Dyes and Pigments</i> , 2018, 151, 157-164.	3.7	33
24	9,10-Bis((Z)-2-phenyl-2-(pyridin-2-yl)vinyl)anthracene: Aggregation-induced emission, mechanochromic luminescence, and reversible volatile acids-amines switching. <i>Dyes and Pigments</i> , 2018, 149, 407-414.	3.7	36
25	Synthesis and remarkable mechano- and thermo-hypsochromic luminescence of a new type of DPP-based derivative. <i>Journal of Materials Chemistry C</i> , 2018, 6, 1377-1383.	5.5	37
26	High-Performance Transition Metal Phosphide Alloy Catalyst for Oxygen Evolution Reaction. <i>ACS Nano</i> , 2018, 12, 158-167.	14.6	321
27	A simple and versatile strategy for realizing bright multicolor mechanoluminescence. <i>Chemical Communications</i> , 2018, 54, 8206-8209.	4.1	33
28	N-Alkylcarbazoles: homolog manipulating long-lived room-temperature phosphorescence. <i>Journal of Materials Chemistry C</i> , 2018, 6, 8984-8989.	5.5	23
29	1,4-Diketo-pyrrolo[3,4-c]pyrroles (DPPs) based insoluble polymer films with lactam hydrogens as renewable fluoride anion chemosensor. <i>Polymer</i> , 2018, 149, 266-272.	3.8	23
30	Thionating iso-diketopyrrolopyrrole-based polymers: from p-type to ambipolar field effect transistors with enhanced charge mobility. <i>Polymer Chemistry</i> , 2018, 9, 1807-1814.	3.9	3
31	Naphthodipyrrolidone (NDP) based conjugated polymers with high electron mobility and ambipolar transport properties. <i>Polymer Chemistry</i> , 2017, 8, 3255-3260.	3.9	21
32	Unusual mechanohypsochromic luminescence and unique bidirectional thermofluorochromism of long-alkylated simple DPP dyes. <i>Journal of Materials Chemistry C</i> , 2017, 5, 5994-5998.	5.5	38
33	Crystalline Organic Pigment-Based Field-Effect Transistors. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 21891-21899.	8.0	55
34	Phenothiazin-N-yl-capped 1,4-diketo-3,6-diphenylpyrrolo[3,4-c]pyrrole exhibiting strong two-photon absorption and aggregation-enhanced one- and two-photon excitation red fluorescence. <i>RSC Advances</i> , 2017, 7, 30610-30617.	3.6	8
35	Polymers Based on Benzodipyrrolidone and Naphthodipyrrolidone with Latent Hydrogen Bonding on the Main Chain. <i>Macromolecular Chemistry and Physics</i> , 2017, 218, 1600617.	2.2	30
36	1,6-Naphthodipyrrolidone-based donor-acceptor polymers with low bandgap. <i>Polymer</i> , 2015, 60, 215-220.	3.8	12

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37	A comparative study of polymers containing naphthodifuranone and benzodifuranone units in the main chain. <i>Polymer Chemistry</i> , 2014, 5, 646-652.	3.9	13
38	Conjugated polymers containing benzo- and naphthodione units in the main chain. <i>Polymer Chemistry</i> , 2014, 5, 6391-6406.	3.9	18
39	1,6-Naphthodione-based monomers and polymers. <i>Polymer Chemistry</i> , 2014, 5, 3754-3757.	3.9	17
40	Aminobenzodione-based polymers with low bandgaps and solvatochromic behavior. <i>Polymer Chemistry</i> , 2014, 5, 3817.	3.9	16
41	Naphthodifuranone-Based Monomers and Polymers. <i>Macromolecules</i> , 2013, 46, 5842-5849.	4.8	16
42	Synthesis and characterization of 1,3,4,6-tetraarylpyrrolo[3,2-b]-pyrrole-2,5-dione (isoDPP)-based donor-acceptor polymers with low band gap. <i>Polymer Chemistry</i> , 2013, 4, 4682.	3.9	27
43	Dibutylaminophenyl- and/or Pyridinyl-Capped 2,6,9,10-Tetravinylanthracene Cruciforms: Synthesis and Aggregation-Enhanced One- and Two-Photon Excited Fluorescence. <i>Journal of Physical Chemistry C</i> , 2013, 117, 8404-8410.	3.1	28
44	N-Monoalkylated 1,4-diketo-3,6-diphenylpyrrolo[3,4-c]pyrroles as effective one- and two-photon fluorescence chemosensors for fluoride anions. <i>Journal of Materials Chemistry A</i> , 2013, 1, 5172.	10.3	68
45	Synthesis, characterization, and large two-photon absorption cross-sections of solid red-emitting 1,4-diketo-3,6-diphenylpyrrolo [3,4-c]pyrrole/3,6-carbazole/terfluorene copolymers. <i>Journal of Polymer Science Part A</i> , 2011, 49, 3048-3057.	2.3	22
46	Synthesis, one- and two-photon properties of poly[9,10-bis(3,4-bis(2-ethylhexyloxy)phenyl)-2,6-anthracenevinylene-co-2,7-bis(2-octyl-3,6-carbazolevinylene)]. <i>Journal of Polymer Science Part A</i> , 2010, 48, 463-470.	2.7	22
47	Synthesis and Electrooptic Properties of Poly(2,6-anthracenevinylene)s. <i>Macromolecular Rapid Communications</i> , 2008, 29, 1415-1420.	3.9	11
48	From Transistors to Phototransistors by Tailoring the Polymer Stacking. <i>Advanced Electronic Materials</i> , 0, , 2200019.	5.1	5
49	Flexible Organic Photovoltaics with Star-Shaped Nonfullerene Acceptors End Capped with Indene Malononitrile and Barbiturate Derivatives. <i>Energy Technology</i> , 0, , 2200264.	3.8	1