Haichang Zhang

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/1546748/publications.pdf

Version: 2024-02-01

49 papers	1,387 citations	304743 22 h-index	345221 36 g-index
50 all docs	50 docs citations	50 times ranked	1779 citing authors

#	Article	IF	Citations
1	High-Performance Transition Metal Phosphide Alloy Catalyst for Oxygen Evolution Reaction. ACS Nano, 2018, 12, 158-167.	14.6	321
2	N-Monoalkylated 1,4-diketo-3,6-diphenylpyrrolo[3,4-c]pyrroles as effective one- and two-photon fluorescence chemosensors for fluoride anions. Journal of Materials Chemistry A, 2013, 1, 5172.	10.3	68
3	Crystalline Organic Pigment-Based Field-Effect Transistors. ACS Applied Materials & Interfaces, 2017, 9, 21891-21899.	8.0	55
4	Touch-sensitive mechanoluminescence crystals comprising a simple purely organic molecule emit bright blue fluorescence regardless of crystallization methods. Chemical Communications, 2018, 54, 5225-5228.	4.1	42
5	Room Temperature Phosphorescent (RTP) Thermoplastic Elastomers with Dual and Variable RTP Emission, Photoâ€Patterning Memory Effect, and Dynamic Deformation RTP Response. Advanced Science, 2022, 9, e2103402.	11.2	40
6	Thionating iso-diketopyrrolopyrrole-based polymers: from p-type to ambipolar field effect transistors with enhanced charge mobility. Polymer Chemistry, 2018, 9, 1807-1814.	3.9	39
7	Unusual mechanohypsochromic luminescence and unique bidirectional thermofluorochromism of long-alkylated simple DPP dyes. Journal of Materials Chemistry C, 2017, 5, 5994-5998.	5.5	38
8	Synthesis and remarkable mechano- and thermo-hypsochromic luminescence of a new type of DPP-based derivative. Journal of Materials Chemistry C, 2018, 6, 1377-1383.	5.5	37
9	Hydrogen-Bonded Dopant-Free Hole Transport Material Enables Efficient and Stable Inverted Perovskite Solar Cells. CCS Chemistry, 2022, 4, 3084-3094.	7.8	37
10	9,10-Bis((Z)-2-phenyl-2-(pyridin-2-yl)vinyl)anthracene: Aggregation-induced emission, mechanochromic luminescence, and reversible volatile acids-amines switching. Dyes and Pigments, 2018, 149, 407-414.	3.7	36
11	Thionation Enhances the Performance of Polymeric Dopantâ€Free Holeâ€Transporting Materials for Perovskite Solar Cells. Advanced Materials Interfaces, 2019, 6, 1901036.	3.7	36
12	Ï€-Conjugated oligomers based on aminobenzodifuranone and diketopyrrolopyrrole. Dyes and Pigments, 2020, 181, 108552.	3.7	35
13	One-coat epoxy coating development for the improvement of UV stability by DPP pigments. Dyes and Pigments, 2018, 151, 157-164.	3.7	33
14	A simple and versatile strategy for realizing bright multicolor mechanoluminescence. Chemical Communications, 2018, 54, 8206-8209.	4.1	33
15	Advances in the Stability of Halide Perovskite Nanocrystals. Materials, 2019, 12, 3733.	2.9	33
16	Polymers Based on Benzodipyrrolidone and Naphthodipyrrolidone with Latent Hydrogenâ€Bonding on the Main Chain. Macromolecular Chemistry and Physics, 2017, 218, 1600617.	2.2	30
17	Dibutylaminophenyl- and/or Pyridinyl-Capped 2,6,9,10-Tetravinylanthracene Cruciforms: Synthesis and Aggregation-Enhanced One- and Two-Photon Excited Fluorescence. Journal of Physical Chemistry C, 2013, 117, 8404-8410.	3.1	28
18	Synthesis and characterization of 1,3,4,6-tetraarylpyrrolo[3,2-b]-pyrrole-2,5-dione (isoDPP)-based donorâ€“acceptor polymers with low band gap. Polymer Chemistry, 2013, 4, 4682.	3.9	27

#	Article	IF	Citations
19	Sulfonated Dopantâ€Free Holeâ€Transport Material Promotes Interfacial Charge Transfer Dynamics for Highly Stable Perovskite Solar Cells. Advanced Sustainable Systems, 2021, 5, 2100244.	5.3	27
20	Hydrogen-Bonding-Mediated Solid-State Self-Assembled Isoepindolidiones (isoEpi) Crystal for Organic Field-Effect Transistor. Journal of Physical Chemistry C, 2018, 122, 5888-5895.	3.1	25
21	N-Alkylcarbazoles: homolog manipulating long-lived room-temperature phosphorescence. Journal of Materials Chemistry C, 2018, 6, 8984-8989.	5.5	23
22	1,4-Diketo-pyrrolo[3,4-c]pyrroles (DPPs) based insoluble polymer films with lactam hydrogens as renewable fluoride anion chemosensor. Polymer, 2018, 149, 266-272.	3.8	23
23	Synthesis, characterization, and large twoâ€photon absorption crossâ€sections of solid redâ€emitting 1,4â€diketoâ€3,6â€diphenylpyrrolo [3,4â€c]pyrrole/3,6â€carbazole/terfluorene copolymers. Journal of Polymer Science Part A, 2011, 49, 3048-3057.	2.3	22
24	Naphthodipyrrolidone (NDP) based conjugated polymers with high electron mobility and ambipolar transport properties. Polymer Chemistry, 2017, 8, 3255-3260.	3.9	21
25	Persistent Organic Whiteâ€Emitting Afterglow from Ultralong Thermally Activated Delayed Fluorescence and Roomâ€Temperature Phosphorescence. Advanced Optical Materials, 2021, 9, 2101075.	7.3	20
26	Conjugated polymers containing benzo- and naphthodione units in the main chain. Polymer Chemistry, 2014, 5, 6391-6406.	3.9	18
27	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. Polymers, 2019, 11, 1683.	4.5	18
28	1,6-Naphthodione-based monomers and polymers. Polymer Chemistry, 2014, 5, 3754-3757.	3.9	17
29	Naphthodifuranone-Based Monomers and Polymers. Macromolecules, 2013, 46, 5842-5849.	4.8	16
30	Aminobenzodione-based polymers with low bandgaps and solvatochromic behavior. Polymer Chemistry, 2014, 5, 3817.	3.9	16
31	Benzo/NaphthodifuranoneâBased Polymers: Effect of Perpendicularâ€Extended Main Chain Ï€â€Conjugation on Organic Fieldâ€Effect Transistor Performances. Macromolecular Rapid Communications, 2021, 42, e2000703.	3.9	16
32	Hydrogen bonding drives the self-assembling of carbazole-based hole-transport material for enhanced efficiency and stability of perovskite solar cells. Nano Energy, 2022, 101, 107604.	16.0	16
33	Exposure to different fractions of diesel exhaust PM2.5 induces different levels of pulmonary inflammation and acute phase response. Ecotoxicology and Environmental Safety, 2021, 210, 111871.	6.0	14
34	A comparative study of polymers containing naphthodifuranone and benzodifuranone units in the main chain. Polymer Chemistry, 2014, 5, 646-652.	3.9	13
35	Effectively Unlocking the Potential Molecular Room Temperature Phosphorescence of Pure Carbazole Derivatives. Advanced Optical Materials, 2022, 10, .	7.3	13
36	Evoking ultra-long molecular room temperature phosphorescence of pure carbazole derivatives. Chemical Engineering Journal, 2022, 447, 137458.	12.7	13

#	Article	IF	Citations
37	1,6-Naphthodipyrrolidone-based donorâ€“acceptor polymers with low bandgap. Polymer, 2015, 60, 215-220.	3.8	12
38	Synthesis and Electrooptic Properties of Poly(2,6â€anthracenevinylene)s. Macromolecular Rapid Communications, 2008, 29, 1415-1420.	3.9	11
39	Synthesis, oneâ€and twoâ€photon properties of poly[9,10â€bis(3,4â€bis(2â€ethylhexylâ€oxy)phenyl)â€2,6â€anthracenevinyleneâ€altâ€Nâ€octylâ€3,6â€/2,7â€carbazolevinylen Journal of Polymer Science Part A, 2010, 48, 463-470.	2.9	11
40	Gaining New Insights into Trace Guest Doping Role in Manipulating Organic Crystal Phosphorescence. Journal of Physical Chemistry Letters, 2021, 12, 11616-11621.	4.6	11
41	Manipulating matrix stacking modes for ultralong-duration organic room-temperature phosphorescence in trace isomer doping systems. Journal of Materials Chemistry C, 2021, 9, 8302-8307.	5.5	10
42	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. RSC Advances, 2017, 7, 30610-30617.	3.6	8
43	Hydrogen-Bonded Colorimetric and Fluorescence Chemosensor for Fluoride Anion With High Selectivity and Sensitivity: A Review. Frontiers in Chemistry, 2021, 9, 666450.	3.6	8
44	From Transistors to Phototransistors by Tailoring the Polymer Stacking. Advanced Electronic Materials, 0, , 2200019.	5.1	5
45	Side-chain engineering by thymine groups enables hydrogen bond in P-type donor-acceptor polymers with enhanced optoelectronic properties. Dyes and Pigments, 2022, 205, 110565.	3.7	5
46	Editorial: Design, Synthesis, and Application of Novel Ï€-Conjugated Materials. Frontiers in Chemistry, 2020, 8, 634698.	3.6	3
47	Thionating iso-diketopyrrolopyrrole-based polymers: from p-type to ambipolar field effect transistors with enhanced charge mobility. Polymer Chemistry, 2018, 9, 1807-1814.	3.9	3
48	Flexible Organic Photovoltaics with Starâ€Shaped Nonfullerene Acceptors End Capped with Indene Malononitrile and Barbiturate Derivatives. Energy Technology, 0, , 2200264.	3.8	1
49	Editorial: Design, Synthesis, and Application of Novel Ï€-Conjugated Materialsâ€”Part â…¡. Frontiers in Chemistry, 2021, 9, 771438.	3.6	0