Kunpeng Guo

List of Publications by Year
in descending order

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41 papers	1,296 citations	394421 19 h-index	345221 36 g-index
41 all docs	41 docs citations	41 times ranked	1723 citing authors

#	Article	IF	Citations
1	Unraveling Passivation Mechanism of Imidazolium-Based Ionic Liquids on Inorganic Perovskite to Achieve Near-Record-Efficiency CsPbI2Br Solar Cells. Nano-Micro Letters, 2022, 14, 7.	27.0	58
2	A Trifluoroethoxyl Functionalized Spiroâ€Based Holeâ€Transporting Material for Highly Efficient and Stable Perovskite Solar Cells. Solar Rrl, 2022, 6, .	5.8	12
3	Lifting Triplet Energy and Bipolar Characteristics by Limiting the Rotation of the Peripheral Groups in Host Materials to Achieve Highâ€Efficiency Blue OLED. Chemistry - an Asian Journal, 2022, 17, e202101298.	3.3	0
4	An AIE-active acridine functionalized spiro[fluorene-9,9â€²-xanthene] luminophore with mechanoresponsive luminescence for anti-counterfeiting, information encryption and blue OLEDs. Journal of Materials Chemistry C, 2022, 10, 7857-7865.	5.5	10
5	D-Ï€-D hole transport materials based on dioctylfluorene for highly efficient and stable perovskite solar cells without pre-oxidation. Dyes and Pigments, 2022, 204, 110452.	3.7	6
6	Introduction of chlorine into spiro[fluorene-9,9â€²-xanthene] based luminophore for high color purity single-molecule white emitter. Dyes and Pigments, 2022, 204, 110450.	3.7	5
7	Multifunctional Enhancement for Highly Stable and Efficient Perovskite Solar Cells. Advanced Functional Materials, 2021, 31, 2005776.	14.9	273
8	Forming luminescent oligomer nanoparticles via condensation polymerization: A strategy for real-time visualized detection of hydrazine in solution and gas phase. Dyes and Pigments, 2021, 185, 108931.	3.7	12
9	Dimeric dithiafulvene sensitizers involving a 1,3,4-oxadiazole as auxiliary acceptor and pyridine as electron-withdrawing anchoring group for efficient dye sensitized solar cells. Dyes and Pigments, 2021, 193, 109483.	3.7	5
10	Decorating hole transport material withÂâ€™CF3 groups for highly efficient and stable perovskite solar cells. Journal of Energy Chemistry, 2021, 62, 523-531.	12.9	15
11	Deep information-hiding based on cascade thermoresponsive luminescence switching of Aâ€“Ï€â€“Dâ€“Ï€â€“A typed carbazole derivatives. Chemical Engineering Journal, 2021, 426, 131293.	12.7	8
12	An A-D-A type of thiophene derivative with morphology-determining luminescent performance: Synthesis and application in a light emitting device. Journal of Luminescence, 2020, 219, 116919.	3.1	4
13	An efficient phenylaminecarbazole-based three-dimensional hole-transporting materials for high-stability perovskite solar cells. Dyes and Pigments, 2020, 182, 108663.	3.7	6
14	Novel donor-acceptor-donor hosts for green and red phosphorescent OLEDs achieving high device efficiency and low efficiency roll-off. Dyes and Pigments, 2020, 180, 108491.	3.7	9
15	TADF material with non-conjugated rigid donor for high-performance full-color phosphorescent OLEDs: Effects of triplet harvest and charge transport on efficiency. Organic Electronics, 2020, 85, 105826.	2.6	11
16	Acceptor-density engineering of push-pull typed carbazole derivatives for improving luminescent efficiency and mechanoresponsive luminescence. Journal of Luminescence, 2020, 226, 117453.	3.1	5
17	Synthesis and properties of triphenylamine functionalized tetrathiafulvalene. Tetrahedron Letters, 2020, 61, 151949.	1.4	2
18	Highly efficient and stable planar CsPbI2Br perovskite solar cell with a new sensitive-dopant-free hole transport layer obtained via an effective surface passivation. Solar Energy Materials and Solar Cells, 2019, 201, 110052.	6.2	45

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19	Regulation of dithiafulvene-based molecular shape and aggregation on TiO₂ for high efficiency dye-sensitized solar cells. Journal of Materials Chemistry C, 2019, 7, 1974-1981.	5.5	15
20	Introduction of Fluorine Into spiro[fluoreneâ€9,9â€²â€xanthene]â€Based Hole Transport Material to Obtain Sensitiveâ€Dopantâ€Free, High Efficient and Stable Perovskite Solar Cells. Solar Rrl, 2019, 3, 1800352.	5.8	40
21	Utilizing the heterocyclic effect towards high contrast ratios of mechanoresponsive luminescence based on aromatic aldehydes. Journal of Materials Chemistry C, 2019, 7, 12328-12335.	5.5	8
22	Zigâ€Zag Acridine/Sulfone Derivative with Aggregationâ€Induced Emission and Enhanced Thermally Activated Delayed Fluorescence in Amorphous Phase for Highly Efficient Nondoped Blue Organic Lightâ€Emitting Diodes. Advanced Optical Materials, 2018, 6, 1701256.	7.3	60
23	Synthesis and Properties of Dithiafulvenyl Functionalized Spiro[fluorene-9,9â€²-xanthene] Molecules. Organic Letters, 2018, 20, 780-783.	4.6	28
24	1, 3-Indanedione functionalized fluorene luminophores: Negative solvatochromism, nanostructure-morphology determined AIE and mechanoresponsive luminescence turn-on. Dyes and Pigments, 2018, 155, 225-232.	3.7	23
25	Rational design of slightly twisted coumarin molecules with remarkable solution and solid dual efficient luminescence. Dyes and Pigments, 2018, 149, 73-81.	3.7	25
26	Urea-Doped ZnO Films as the Electron Transport Layer for High Efficiency Inverted Polymer Solar Cells. Frontiers in Chemistry, 2018, 6, 398.	3.6	12
27	Metal-free organic luminophores with ultrastrong dipole moment exhibiting force-induced near-infrared emission (>800 nm) turn-on. Chemical Communications, 2018, 54, 11455-11458.	4.1	12
28	Highly Efficient Deep-Blue Electroluminescence from a Aâˆ’Ï€â€“Dâˆ’Ï€â€“A Structure Based Fluoresence Material with Exciton Utilizing Efficiency above 25%. ACS Applied Energy Materials, 2018, 1, 3243-3254.	5.1	23
29	Tetra-carbazole substituted spiro[fluorene-9,9â€²-xanthene]-based hole-transporting materials with high thermal stability and mobility for efficient OLEDs. Dyes and Pigments, 2017, 139, 764-771.	3.7	33
30	Dithiafulvene-based organic sensitizers using pyridine as the acceptor for dye-sensitized solar cells. Materials Chemistry and Physics, 2017, 192, 349-355.	4.0	9
31	Aâ€“Ï€â€“Dâ€“Ï€â€“A carbazole derivatives with remarkable solvatochromism and mechanoresponsive luminescence turn-on. Journal of Materials Chemistry C, 2017, 5, 6136-6143.	5.5	102
32	Achieving red/near-infrared mechanoresponsive luminescence turn-on: mechanically disturbed metastable nanostructures in organic solids. Chemical Communications, 2017, 53, 1309-1312.	4.1	45
33	Microwave-assisted hydrothermal synthesis of solid-state carbon dots with intensive emission for white light-emitting devices. Journal of Materials Chemistry C, 2017, 5, 8105-8111.	5.5	94
34	A planar dithiafulvene based sensitizer forming J -aggregates on TiO 2 photoanode to enhance the performance of dye-sensitized solar cells. Dyes and Pigments, 2017, 136, 97-103.	3.7	26
35	Porphyrin-based metallopolymers: synthesis, characterization and pyrolytic study for the generation of magnetic metal nanoparticles. Journal of Materials Chemistry C, 2016, 4, 5010-5018.	5.5	37
36	Molecular engineering of dithiafulvene organic sensitizers with pyridine acceptor for high efficiency dye-sensitized solar cells. Science China Materials, 2016, 59, 797-806.	6.3	5

#	Article	IF	Citations
37	Investigating the role of the Ï€-bridge characteristics in donorâ€“Ï€-spacerâ€“acceptor type dyes for solar cell application: a theoretical study. Theoretical Chemistry Accounts, 2016, 135, 1.	1.4	5
38	Metallopolymer precursors to L1₀-CoPt nanoparticles: synthesis, characterization, nanopatterning and potential application. Nanoscale, 2016, 8, 7068-7074.	5.6	46
39	Linear thiophene-containing Ï€-conjugated aldehydes with aggregation-induced emission for building solid red luminophors. Dyes and Pigments, 2015, 115, 166-171.	3.7	19
40	Aldehyde end-capped terthiophene with aggregation-induced emission characteristics. Tetrahedron, 2015, 71, 5634-5639.	1.9	21
41	Dithiafulvenyl Unit as a New Donor for High-Efficiency Dye-Sensitized Solar Cells: Synthesis and Demonstration of a Family of Metal-Free Organic Sensitizers. Organic Letters, 2012, 14, 2214-2217.	4.6	122