Kunpeng Guo

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/8174685/publications.pdf

Version: 2024-02-01

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	Multifunctional Enhancement for Highly Stable and Efficient Perovskite Solar Cells. Advanced Functional Materials, 2021, 31, 2005776.	14.9	273
2	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
3	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
4	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
5	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
6	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
7	Metallopolymer precursors to L1₀-CoPt nanoparticles: synthesis, characterization, nanopatterning and potential application. Nanoscale, 2016, 8, 7068-7074.	5.6	46
8	Achieving red/near-infrared mechanoresponsive luminescence turn-on: mechanically disturbed metastable nanostructures in organic solids. Chemical Communications, 2017, 53, 1309-1312.	4.1	45
9	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
10	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
11	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
12	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
13	Synthesis and Properties of Dithiafulvenyl Functionalized Spiro[fluorene-9,9â€²-xanthene] Molecules. Organic Letters, 2018, 20, 780-783.	4.6	28
14	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
15	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
16	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
17	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
18	Aldehyde end-capped terthiophene with aggregation-induced emission characteristics. Tetrahedron, 2015, 71, 5634-5639.	1.9	21

#	Article	IF	Citations
19	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
20	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
21	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
22	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
23	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
24	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
25	A Trifluoroethoxyl Functionalized Spiroâ€Based Holeâ€Transporting Material for Highly Efficient and Stable Perovskite Solar Cells. Solar Rrl, 2022, 6, .	5.8	12
26	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
27	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
28	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
29	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
30	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
31	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
32	An efficient phenylaminecarbazole-based three-dimensional hole-transporting materials for high-stability perovskite solar cells. Dyes and Pigments, 2020, 182, 108663.	3.7	6
33	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
34	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
35	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
36	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

#	Article	IF	Citations
37	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
38	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
39	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
40	Synthesis and properties of triphenylamine functionalized tetrathiafulvalene. Tetrahedron Letters, 2020, 61, 151949.	1.4	2
41	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