Xiaosong Cao

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/2394316/publications.pdf

Version: 2024-02-01

		236925	243625
51	2,170	25	44
papers	citations	h-index	g-index

53	53	53	1210
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Quenchingâ€Resistant Multiresonance TADF Emitter Realizes 40% External Quantum Efficiency in Narrowband Electroluminescence at High Doping Level. Advanced Materials, 2022, 34, e2106954.	21.0	235
2	Peripheral Decoration of Multiâ€Resonance Molecules as a Versatile Approach for Simultaneous Longâ€Wavelength and Narrowband Emission. Advanced Functional Materials, 2021, 31, 2102017.	14.9	157
3	Chainâ€Growth Click Polymerization of AB₂ Monomers for the Formation of Hyperbranched Polymers with Low Polydispersities in a Oneâ€Pot Process. Angewandte Chemie - International Edition, 2015, 54, 7631-7635.	13.8	138
4	Highâ€Performance Narrowband Pureâ€Red OLEDs with External Quantum Efficiencies up to 36.1% and Ultralow Efficiency Rollâ€Off. Advanced Materials, 2022, 34, e2201442.	21.0	131
5	Heavy-atom effect promotes multi-resonance thermally activated delayed fluorescence. Chemical Engineering Journal, 2021, 426, 131169.	12.7	122
6	Extending the Ï€â€Skeleton of Multiâ€Resonance TADF Materials towards Highâ€Efficiency Narrowband Deepâ€Blue Emission. Angewandte Chemie - International Edition, 2022, 61, .	13.8	110
7	The use of azideâ€“alkyne click chemistry in recent syntheses and applications of polytriazole-based nanostructured polymers. Nanoscale, 2016, 8, 4864-4881.	5.6	88
8	Simple Acridanâ€Based Multiâ€Resonance Structures Enable Highly Efficient Narrowband Green TADF Electroluminescence. Advanced Optical Materials, 2021, 9, 2100825.	7.3	79
9	Integrating molecular rigidity and chirality into thermally activated delayed fluorescence emitters for highly efficient sky-blue and orange circularly polarized electroluminescence. Materials Horizons, 2021, 8, 547-555.	12.2	76
10	Semitransparent Circularly Polarized Phosphorescent Organic Lightâ€Emitting Diodes with External Quantum Efficiency over 30% and Dissymmetry Factor Close to 10^{â^'2}. Advanced Functional Materials, 2021, 31, 2102898.	14.9	60
11	Chiral Multiâ€Resonance TADF Emitters Exhibiting Narrowband Circularly Polarized Electroluminescence with an EQE of 37.2â€‰%. Angewandte Chemie - International Edition, 2022, 61, .	13.8	58
12	AIE-active multicolor tunable luminogens: simultaneous mechanochromism and acidochromism with high contrast beyond 100 nm. Materials Chemistry Frontiers, 2020, 4, 2047-2053.	5.9	55
13	Sulfoneâ€Incorporated Multiâ€Resonance TADF Emitter for Highâ€Performance Narrowband Blue OLEDs with EQE of 32%. Advanced Functional Materials, 2022, 32, .	14.9	53
14	Regulating the photophysical properties of highly twisted TADF emitters by concurrent through-space/-bond charge transfer. Chemical Engineering Journal, 2020, 402, 126173.	12.7	49
15	Produce Molecular Brushes with Ultrahigh Grafting Density Using Accelerated CuAAC Grafting-Onto Strategy. Macromolecules, 2017, 50, 215-222.	4.8	46
16	High-Efficiency Red Electroluminescence Based on a Carbeneâ€“Cu(I)â€“Acridine Complex. ACS Applied Materials & Interfaces, 2021, 13, 13478-13486.	8.0	46
17	Highly Branched Polymers with Layered Structures that Mimic Lightâ€Harvesting Processes. Angewandte Chemie - International Edition, 2018, 57, 516-520.	13.8	43
18	Simple Molecular Design Strategy for Multiresonance Induced TADF Emitter: Highly Efficient Deep Blue to Blue Electroluminescence with High Color Purity. Advanced Optical Materials, 2022, 10, .	7.3	42

#	Article	IF	Citations
19	Investigate the Glass Transition Temperature of Hyperbranched Copolymers with Segmented Monomer Sequence. Macromolecules, 2016, 49, 4416-4422.	4.8	35
20	Narrowing the Electroluminescence Spectra of Multiresonance Emitters for High-Performance Blue OLEDs by a Peripheral Decoration Strategy. ACS Applied Materials & Interfaces, 2021, 13, 59035-59042.	8.0	34
21	Synthesis of acid-degradable hyperbranched polymers by chain-growth CuAAC polymerization of an AB₃ monomer. Polymer Chemistry, 2016, 7, 5512-5517.	3.9	33
22	Molecular Engineering Enables TADF Emitters Well Suitable for Nonâ€Doped OLEDs with External Quantum Efficiency of Nearly 30%. Advanced Functional Materials, 2022, 32, .	14.9	32
23	Isomerization enhanced quantum yield of dibenzo[a,c]phenazine-based thermally activated delayed fluorescence emitters for highly efficient orange OLEDs. Journal of Materials Chemistry C, 2020, 8, 9639-9645.	5.5	31
24	Highly efficient red thermally activated delayed fluorescence emitters by manipulating the molecular horizontal orientation. Materials Chemistry Frontiers, 2021, 5, 3209-3215.	5.9	28
25	Extending the Ïâ€Skeleton of Multiâ€Resonance TADF Materials towards Highâ€Efficiency Narrowband Deepâ€Blue Emission. Angewandte Chemie, 2022, 134, .	2.0	25
26	Friedelâ€“Crafts A₂ + B₄ Polycondensation toward Regioselective Linear Polymer with Rigid Triphenylmethane Backbone and Its Property as Gas Separation Membrane. Macromolecules, 2018, 51, 6580-6586.	4.8	24
27	Synthesis and direct assembly of linearâ€“dendritic copolymers via CuAAC click polymerization-induced self-assembly (CPISA). Polymer Chemistry, 2020, 11, 936-943.	3.9	21
28	High-efficiency and low roll-off deep-blue OLEDs enabled by thermally activated delayed fluorescence emitter with preferred horizontal dipole orientation. Chemical Engineering Journal, 2022, 433, 133598.	12.7	21
29	Tandem Functionalization in a Highly Branched Polymer with Layered Structure. Chemistry - A European Journal, 2018, 24, 5974-5981.	3.3	19
30	Fused tetracyclic tris[1,2,4]triazolo[1,3,5]triazine as a novel rigid electron acceptor for efficient thermally activated delayed fluorescence emitters. RSC Advances, 2020, 10, 15523-15529.	3.6	19
31	Multi-resonance organoboron-based fluorescent probe for ultra-sensitive, selective and reversible detection of fluoride ions. Journal of Materials Chemistry C, 2021, 9, 1567-1571.	5.5	19
32	Highly Branched Polymers with Layered Structures that Mimic Lightâ€Harvesting Processes. Angewandte Chemie, 2018, 130, 525-529.	2.0	17
33	Hostâ€Dopant Interaction between Organic Thermally Activated Delayed Fluorescence Emitter and Host Material: Insight into the Excited State. Advanced Optical Materials, 2022, 10, 2101343.	7.3	16
34	Chiral Multiâ€Resonance TADF Emitters Exhibiting Narrowband Circularly Polarized Electroluminescence with an EQE of 37.2â€‰%. Angewandte Chemie, 2022, 134, .	2.0	16
35	Tripletâ€“triplet annihilation upconversion with reversible emission-tunability induced by chemical-stimuli: a remote modulator for photocontrol isomerization. Materials Horizons, 2021, 8, 606-611.	12.2	15
36	On-off switchable thermally activated delayed fluorescence controlled by multiple channels: Understanding the mechanism behind distinctive polymorph-dependent optical properties. Chemical Engineering Journal, 2021, 415, 128909.	12.7	15

#	Article	IF	Citations
37	Efficient Tripletâ€“Triplet Annihilation Upconversion in Solution and Hydrogel Enabled by an S-T Absorption Os(II) Complex Dyad with an Elongated Triplet Lifetime. Inorganic Chemistry, 2021, 60, 19001-19008.	4.0	15
38	Preparation of water-soluble hyperbranched polymers with tunable thermosensitivity using chain-growth CuAAC copolymerization. Polymer Chemistry, 2016, 7, 7500-7505.	3.9	14
39	Star-shaped thermally activated delayed fluorescence emitters with a tri-armed arylsulfonic acceptor for efficient solution processed organic light emitting diodes. Journal of Materials Chemistry C, 2020, 8, 5580-5586.	5.5	13
40	Ligand effect in the synthesis of hyperbranched polymers via copperâ€catalyzed azideâ€alkyne cycloaddition polymerization (CuAACP). Journal of Polymer Science Part A, 2018, 56, 2238-2244.	2.3	11
41	Recyclable Palladium-Loaded Hyperbranched Polytriazoles as Efficient Polymer Catalysts for Heck Reaction. ACS Applied Polymer Materials, 2020, 2, 677-684.	4.4	11
42	A Novel Chain-Growth CuAAC Polymerization: One-pot Synthesis of Dendritic Hyperbranched Polymers with Well-Defined Structures. Synlett, 2017, 28, 391-396.	1.8	10
43	Chiral thermally activated delayed fluorescence emitters for circularly polarized luminescence and efficient deep blue OLEDs. Dyes and Pigments, 2022, 197, 109860.	3.7	10
44	Superacid-catalyzed Friedelâ€“Crafts polyhydroxyalkylation: a straightforward method to construct sky-blue thermally activated delayed fluorescence polymers. Polymer Chemistry, 2020, 11, 3481-3487.	3.9	9
45	Synthesis of multisegmented block copolymer by Friedelâ€“Crafts hydroxyalkylation polymerization. Polymer Chemistry, 2020, 11, 2542-2549.	3.9	9
46	Color-tunable tetracoordinated organoboron complexes exhibiting aggregation-induced emission for the efficient turn-on detection of fluoride ions. Materials Chemistry Frontiers, 2021, 5, 2353-2360.	5.9	9
47	Tunable Fluorescence from a Responsive Hyperbranched Polymer with Spatially Arranged Fluorophore Arrays. Chemistry - an Asian Journal, 2018, 13, 3723-3728.	3.3	7
48	Chainâ€growth polymerization of azideâ€“alkyne difunctional monomer: Synthesis of star polymer with linear polytriazole arms from a core. Journal of Polymer Science, 2020, 58, 84-90.	3.8	6
49	Synthesize Hyperbranched Polymers Carrying Two Reactive Handles via CuAAC Reaction and Thiolâ€“Ene Chemistry. Macromolecular Chemistry and Physics, 2019, 220, 1900221.	2.2	4
50	Phenoxazine-Dibenzothiophene Sulfoximine Emitters Featuring Both Thermally Activated Delayed Fluorescence and Aggregation Induced Emission. Molecules, 2021, 26, 5243.	3.8	4
51	Innentitelbild: Chain-Growth Click Polymerization of AB2Monomers for the Formation of Hyperbranched Polymers with Low Polydispersities in a One-Pot Process (Angew. Chem. 26/2015). Angewandte Chemie, 2015, 127, 7562-7562.	2.0	1