Yi Zhang

List of Publications by Year
in descending order

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111 papers	14,112 citations	26567 56 h-index	24915 109 g-index
113 all docs	113 docs citations	113 times ranked	8493 citing authors

#	Article	IF	Citations
1	Recent advances in organic thermally activated delayed fluorescence materials. Chemical Society Reviews, 2017, 46, 915-1016.	18.7	1,815
2	Recent advances in organic mechanofluorochromic materials. Chemical Society Reviews, 2012, 41, 3878.	18.7	1,575
3	Recent advances in mechanochromic luminescent metal complexes. Journal of Materials Chemistry C, 2013, 1, 3376.	2.7	570
4	Intermolecular Electronic Coupling of Organic Units for Efficient Persistent Roomâ€Temperature Phosphorescence. Angewandte Chemie - International Edition, 2016, 55, 2181-2185.	7.2	548
5	Whiteâ€Light Emission Strategy of a Single Organic Compound with Aggregationâ€Induced Emission and Delayed Fluorescence Properties. Angewandte Chemie - International Edition, 2015, 54, 7181-7184.	7.2	427
6	An Organic Molecule with Asymmetric Structure Exhibiting Aggregationâ€Induced Emission, Delayed Fluorescence, and Mechanoluminescence. Angewandte Chemie - International Edition, 2015, 54, 874-878.	7.2	378
7	Recent advances in mechano-responsive luminescence of tetraphenylethylene derivatives with aggregation-induced emission properties. Materials Chemistry Frontiers, 2018, 2, 861-890.	3.2	339
8	Linearly Tunable Emission Colors Obtained from a Fluorescentâ€“Phosphorescent Dualâ€Emission Compound by Mechanical Stimuli. Angewandte Chemie - International Edition, 2015, 54, 6270-6273.	7.2	315
9	Piezofluorochromism of an Aggregationâ€Induced Emission Compound Derived from Tetraphenylethylene. Chemistry - an Asian Journal, 2011, 6, 808-811.	1.7	294
10	Very bright mechanoluminescence and remarkable mechanochromism using a tetraphenylethene derivative with aggregation-induced emission. Chemical Science, 2015, 6, 3236-3241.	3.7	281
11	End-group effects of piezofluorochromic aggregation-induced enhanced emission compounds containing distyrylanthracene. Journal of Materials Chemistry, 2012, 22, 18505.	6.7	273
12	Piezofluorochromic Properties and Mechanism of an Aggregation-Induced Emission Enhancement Compound Containing N-Hexyl-phenothiazine and Anthracene Moieties. Journal of Physical Chemistry B, 2011, 115, 7606-7611.	1.2	259
13	Boosting the Quantum Efficiency of Ultralong Organic Phosphorescence up to 52â€‰% via Intramolecular Halogen Bonding. Angewandte Chemie - International Edition, 2020, 59, 17451-17455.	7.2	253
14	Multifunctional organic fluorescent materials derived from 9,10-distyrylanthracene with alkoxyl endgroups of various lengths. Chemical Communications, 2012, 48, 10895.	2.2	224
15	Transient and Persistent Roomâ€Temperature Mechanoluminescence from a Whiteâ€Lightâ€Emitting AIEgen with Tricolor Emission Switching Triggered by Light. Angewandte Chemie - International Edition, 2018, 57, 6449-6453.	7.2	222
16	Triphenylethylene carbazole derivatives as a new class of AIE materials with strong blue light emission and high glass transition temperature. Journal of Materials Chemistry, 2009, 19, 5541.	6.7	213
17	New Thermally Stable Piezofluorochromic Aggregation-Induced Emission Compounds. Organic Letters, 2011, 13, 556-559.	2.4	210
18	Achieving remarkable mechanochromism and white-light emission with thermally activated delayed fluorescence through the molecular heredity principle. Chemical Science, 2016, 7, 2201-2206.	3.7	210

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19	Recent progress in the mechanofluorochromism of cyanoethylene derivatives with aggregation-induced emission. Journal of Materials Chemistry C, 2018, 6, 6327-6353.	2.7	198
20	Aggregation-induced emission enhancement compounds containing triphenylamine-anthrylenevinylene and tetraphenylethene moieties. Journal of Materials Chemistry, 2011, 21, 3760.	6.7	170
21	White-light emission from a single heavy atom-free molecule with room temperature phosphorescence, mechanochromism and thermochromism. Chemical Science, 2017, 8, 1909-1914.	3.7	168
22	A new ligand and its complex with multi-stimuli-responsive and aggregation-induced emission effects. Chemical Communications, 2011, 47, 11080.	2.2	166
23	An AIE-active luminophore with tunable and remarkable fluorescence switching based on the piezo and protonationâ€“deprotonation control. Chemical Communications, 2014, 50, 7374-7377.	2.2	161
24	Piezofluorochromic and Aggregationâ€Inducedâ€Emission Compounds Containing Triphenylethylene and Tetraphenylethylene Moieties. Chemistry - an Asian Journal, 2011, 6, 1470-1478.	1.7	150
25	Recent progress in the mechanofluorochromism of distyrylanthracene derivatives with aggregation-induced emission. Materials Chemistry Frontiers, 2018, 2, 1595-1608.	3.2	141
26	Influence of Carbazolyl Groups on Properties of Piezofluorochromic Aggregation-Enhanced Emission Compounds Containing Distyrylanthracene. Journal of Physical Chemistry C, 2012, 116, 23629-23638.	1.5	135
27	A Bulk Dielectric Polymer Film with Intrinsic Ultralow Dielectric Constant and Outstanding Comprehensive Properties. Chemistry of Materials, 2015, 27, 6543-6549.	3.2	131
28	Polyimide nanocomposites with boron nitride-coated multi-walled carbon nanotubes for enhanced thermal conductivity and electrical insulation. Journal of Materials Chemistry A, 2014, 2, 20958-20965.	5.2	130
29	An aggregation-induced emission luminophore with multi-stimuli single- and two-photon fluorescence switching and large two-photon absorption cross section. Chemical Communications, 2013, 49, 273-275.	2.2	126
30	Achieving very bright mechanoluminescence from purely organic luminophores with aggregation-induced emission by crystal design. Chemical Science, 2016, 7, 5307-5312.	3.7	125
31	High-Performance Functional Polyimides Containing Rigid Nonplanar Conjugated Triphenylethylene Moieties. Chemistry of Materials, 2012, 24, 1212-1222.	3.2	122
32	Weak interactions but potent effect: tunable mechanoluminescence by adjusting intermolecular Câ€“Hâ‹¯Ï€ interactions. Chemical Science, 2018, 9, 5787-5794.	3.7	118
33	Advanced functional polymer materials. Materials Chemistry Frontiers, 2020, 4, 1803-1915.	3.2	117
34	Intrinsic low dielectric constant polyimides: relationship between molecular structure and dielectric properties. Journal of Materials Chemistry C, 2017, 5, 12807-12815.	2.7	110
35	The HOF structures of nitrotetraphenylethene derivatives provide new insights into the nature of AIE and a way to design mechanoluminescent materials. Chemical Science, 2017, 8, 1163-1168.	3.7	110
36	Alkyl Chain Introduction: Inâ€…Situ Solarâ€Renewable Colorful Organic Mechanoluminescence Materials. Angewandte Chemie - International Edition, 2018, 57, 12727-12732.	7.2	103

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37	A sterically hindered asymmetric Dâ€“Aâ€“Dâ€² thermally activated delayed fluorescence emitter for highly efficient non-doped organic light-emitting diodes. Chemical Science, 2019, 10, 8129-8134.	3.7	102
38	Achieving Dualâ€Emissive and Timeâ€Dependent Evolutive Organic Afterglow by Bridging Molecules with Weak Intermolecular Hydrogen Bonding. Advanced Optical Materials, 2019, 7, 1801593.	3.6	101
39	Piezofluorochromism and morphology of a new aggregation-induced emission compound derived from tetraphenylethylene and carbazole. New Journal of Chemistry, 2012, 36, 685-693.	1.4	100
40	Two-photon-excited ultralong organic room temperature phosphorescence by dual-channel triplet harvesting. Chemical Science, 2019, 10, 7352-7357.	3.7	98
41	Mechano-induced persistent room-temperature phosphorescence from purely organic molecules. Chemical Science, 2018, 9, 3782-3787.	3.7	97
42	New aggregation-induced emission enhancement materials combined triarylamine and dicarbazolyl triphenylethylene moieties. Journal of Materials Chemistry, 2010, 20, 6103.	6.7	95
43	Combined aggregation induced emission (AIE), photochromism and photoresponsive wettability in simple dichloro-substituted triphenylethylene derivatives. Chemical Science, 2016, 7, 5302-5306.	3.7	95
44	Recent developments of truly stretchable thin film electronic and optoelectronic devices. Nanoscale, 2018, 10, 5764-5792.	2.8	91
45	Facile Strategy for Intrinsic Low-k Dielectric Polymers: Molecular Design Based on Secondary Relaxation Behavior. Macromolecules, 2019, 52, 4601-4609.	2.2	91
46	Influence of cyano groups on the properties of piezofluorochromic aggregation-induced emission enhancement compounds derived from tetraphenylvinyl-capped ethane. Journal of Materials Chemistry C, 2015, 3, 1225-1234.	2.7	88
47	Transient and Persistent Roomâ€Temperature Mechanoluminescence from a Whiteâ€Lightâ€Emitting AIEgen with Tricolor Emission Switching Triggered by Light. Angewandte Chemie, 2018, 130, 6559-6563.	1.6	87
48	Hydrogenâ€Bondingâ€Assisted Intermolecular Charge Transfer: A New Strategy to Design Singleâ€Component Whiteâ€Lightâ€Emitting Materials. Advanced Functional Materials, 2017, 27, 1703918.	7.8	84
49	A pH-responsive polymer based on dynamic imine bonds as a drug delivery material with pseudo target release behavior. Polymer Chemistry, 2018, 9, 878-884.	1.9	84
50	Synthesis and Properties of Aggregation-Induced Emission Compounds Containing Triphenylethene and Tetraphenylethene Moieties. Journal of Physical Chemistry C, 2011, 115, 17574-17581.	1.5	83
51	Whiteâ€Light Emission Strategy of a Single Organic Compound with Aggregationâ€Induced Emission and Delayed Fluorescence Properties. Angewandte Chemie, 2015, 127, 7287-7290.	1.6	83
52	Chirality-activated mechanoluminescence from aggregation-induced emission enantiomers with high contrast mechanochromism and force-induced delayed fluorescence. Materials Chemistry Frontiers, 2019, 3, 1800-1806.	3.2	81
53	Synthesis and properties of highly organosoluble and low dielectric constant polyimides containing non-polar bulky triphenyl methane moiety. Reactive and Functional Polymers, 2016, 108, 71-77.	2.0	79
54	Deep-blue luminescent compound that emits efficiently both in solution and solid state with considerable blue-shift upon aggregation. Journal of Materials Chemistry C, 2014, 2, 1068-1075.	2.7	61

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55	Exceptionally thermostable and soluble aromatic polyimides with special characteristics: intrinsic ultralow dielectric constant, static random access memory behaviors, transparency and fluorescence. Materials Chemistry Frontiers, 2017, 1, 326-337.	3.2	61
56	A new approach to switchable photochromic materials by combining photochromism and piezochromism together in an AIE-active molecule. Materials Chemistry Frontiers, 2017, 1, 1900-1904.	3.2	56
57	Nondoped Red Fluorophores with Hybridized Local and Charge-Transfer State for High-Performance Fluorescent White Organic Light-Emitting Diodes. ACS Applied Materials & Interfaces, 2019, 11, 39026-39034.	4.0	55
58	Boosting the Quantum Efficiency of Ultralong Organic Phosphorescence up to 52â€‰% via Intramolecular Halogen Bonding. Angewandte Chemie, 2020, 132, 17604-17608.	1.6	55
59	Synthesis and properties of highâ€performance functional polyimides containing rigid nonplanar conjugated tetraphenylethylene moieties. Journal of Polymer Science Part A, 2013, 51, 1302-1314.	2.5	54
60	Flexible and highly fluorescent aromatic polyimide: design, synthesis, properties, and mechanism. Journal of Materials Chemistry C, 2016, 4, 10509-10517.	2.7	51
61	Colour-tunable dual-mode afterglows and helical-array-induced mechanoluminescence from AIE enantiomers: Effects of molecular arrangement on formation and decay of excited states. Chemical Engineering Journal, 2021, 418, 129167.	6.6	50
62	Fluorescence-enhanced organogelators with mesomorphic andÂpiezofluorochromic properties based on tetraphenylethylene andÂgallic acid derivatives. Dyes and Pigments, 2014, 101, 74-84.	2.0	47
63	Reversible and Continuous Color-Tunable Persistent Luminescence of Metal-Free Organic Materials by â€œSelfâ€•Interface Energy Transfer. ACS Applied Materials & Interfaces, 2020, 12, 5073-5080.	4.0	45
64	Highly-efficient fully non-doped white organic light-emitting diodes consisting entirely of thermally activated delayed fluorescence emitters. Journal of Materials Chemistry C, 2018, 6, 3226-3232.	2.7	43
65	Modified halloysite nanotube filled polyimide composites for film capacitors: high dielectric constant, low dielectric loss and excellent heat resistance. RSC Advances, 2018, 8, 10522-10531.	1.7	43
66	Synthesis and Properties of High Performance Functional Polyimides Containing Rigid Nonplanar Conjugated Fluorene Moieties. Chinese Journal of Polymer Science (English Edition), 2019, 37, 416-427.	2.0	43
67	Highly-Efficient Doped and Nondoped Organic Light-Emitting Diodes with External Quantum Efficiencies over 20% from a Multifunctional Green Thermally Activated Delayed Fluorescence Emitter. Journal of Physical Chemistry C, 2019, 123, 1015-1020.	1.5	42
68	Efficient triplet harvesting in fluorescenceâ€“TADF hybrid warm-white organic light-emitting diodes with a fully non-doped device configuration. Journal of Materials Chemistry C, 2018, 6, 4257-4264.	2.7	41
69	Intrinsic high-kâ€“low-loss dielectric polyimides containing ortho-position aromatic nitrile moieties: reconsideration on Clausiusâ€“Mossotti equation. Polymer Chemistry, 2021, 12, 2481-2489.	1.9	40
70	An efficient yellow thermally activated delayed fluorescence emitter with universal applications in both doped and non-doped organic light-emitting diodes. Materials Chemistry Frontiers, 2018, 2, 1017-1023.	3.2	39
71	Achieving tunable dual-emissive and high-contrast mechanochromic materials by manipulating steric hindrance effects. Journal of Materials Chemistry C, 2019, 7, 3300-3305.	2.7	38
72	Temperature resistant amorphous polyimides with high intrinsic permittivity for electronic applications. Chemical Engineering Journal, 2022, 436, 135060.	6.6	38

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73	Design, synthesis and photochromism studies of thienyl containing triarylethylene derivatives and their applications in real-time photoresponsive surfaces. Journal of Materials Chemistry C, 2018, 6, 8832-8838.	2.7	37
74	Rigid Polyimides with Thermally Activated Delayed Fluorescence for Polymer Lightâ€Emitting Diodes with High External Quantum Efficiency up to 21â€‰%. Angewandte Chemie - International Edition, 2021, 60, 7220-7226.	7.2	34
75	Flexible Multifunctional Aromatic Polyimide Film: Highly Efficient Photoluminescence, Resistive Switching Characteristic, and Electroluminescence. ACS Applied Materials & Interfaces, 2018, 10, 11430-11435.	4.0	33
76	An AEE-active polymer containing tetraphenylethene and 9,10-distyrylanthracene moieties with remarkable mechanochromism. Chinese Journal of Polymer Science (English Edition), 2017, 35, 282-292.	2.0	32
77	A Multiâ€Stimuliâ€Responsive Molecule with Responses to Light, Oxygen, and Mechanical Stress through Flexible Tuning of Triplet Excitons. Advanced Optical Materials, 2021, 9, 2001550.	3.6	32
78	A color-tunable single-component luminescent molecule with multiple emission centers. Chemical Science, 2021, 12, 9201-9206.	3.7	32
79	Synthesis and Properties of Diphenylcarbazole Triphenylethylene Derivatives with Aggregation-Induced Emission, Blue Light Emission and High Thermal Stability. Journal of Fluorescence, 2011, 21, 433-441.	1.3	29
80	Multi-functional polyimides containing tetraphenyl fluorene moieties: fluorescence and resistive switching behaviors. Journal of Materials Chemistry C, 2017, 5, 6457-6466.	2.7	27
81	Enabling dynamic ultralong organic phosphorescence in molecular crystals through the synergy between intramolecular and intermolecular interactions. Journal of Materials Chemistry C, 2020, 8, 7384-7392.	2.7	27
82	New Strategy for Controlled Release of Drugs. Potential Pinpoint Targeting with Multiresponsive Tetraaniline Diblock Polymer Vesicles: Site-Directed Burst Release with Voltage. ACS Applied Materials & Interfaces, 2014, 6, 1470-1480.	4.0	25
83	Hydrogen bonding-assisted loosely packed crystals of a diaminomaleonitrile-modified tetraphenylethene compound and their photo- and mechano-responsive properties. Journal of Materials Chemistry C, 2017, 5, 11867-11872.	2.7	25
84	Two thermally stable and AIE active 1,8-naphthalimide derivatives with red efficient thermally activated delayed fluorescence. Dyes and Pigments, 2019, 169, 81-88.	2.0	25
85	Fabricating high thermal conductivity rGO/polyimide nanocomposite films via a freeze-drying approach. RSC Advances, 2018, 8, 22169-22176.	1.7	24
86	Performance enhancement in up-conversion nanoparticle-embedded perovskite solar cells by harvesting near-infrared sunlight. Materials Chemistry Frontiers, 2019, 3, 2058-2065.	3.2	23
87	An Effective Strategy of Combining Surface Passivation and Secondary Grain Growth for Highly Efficient and Stable Perovskite Solar Cells. Small, 2021, 17, e2100678.	5.2	23
88	Controlling the thermally activated delayed fluorescence of axially chiral organic emitters and their racemate for information encryption. Chemical Science, 2021, 12, 15556-15562.	3.7	21
89	Alkyl Chain Introduction: Inâ€…Situ Solarâ€Renewable Colorful Organic Mechanoluminescence Materials. Angewandte Chemie, 2018, 130, 12909-12914.	1.6	20
90	Achievement of persistent and efficient organic room-temperature phosphorescence with temperature-response by adjusting the proportion of excited-state configurations in coupled molecules. Journal of Materials Chemistry C, 2019, 7, 8250-8254.	2.7	20

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91	Preserving High-Efficiency Luminescence Characteristics of an Aggregation-Induced Emission-Active Fluorophore in Thermostable Amorphous Polymers. ACS Applied Materials & Interfaces, 2020, 12, 34198-34207.	4.0	20
92	An oxidation-induced fluorescence turn-on approach for non-luminescent flexible polyimide films. Journal of Materials Chemistry C, 2017, 5, 8545-8552.	2.7	19
93	Improving Dielectric Properties and Thermostability of CaCu₃Ti₄O₁₂/Polyimide Composites by Employing Surface Hydroxylated CaCu₃Ti₄O₁₂ Particles. ACS Applied Polymer Materials, 2019, 1, 1263-1271.	2.0	19
94	Asymmetric Sulfonyldibenzene-Based Hole-Transporting Materials for Efficient Perovskite Solar Cells: Inspiration from Organic Thermally-Activated Delayed Fluorescence Molecules. , 2020, 2, 1093-1100.		16
95	Gated photochromic molecules with AIEgen: turn-on the photochromism with an oxidation reagent. RSC Advances, 2018, 8, 18613-18618.	1.7	12
96	Flexible and Fatigueâ€Resistant Ternary Electrical Memory Based on Alternative Copolysiloxane with Carbazole Donors and Imidazoleâ€Modified Naphthalimide Acceptors. Advanced Materials Technologies, 2019, 4, 1900084.	3.0	12
97	Aggregation-induced emission generation via simultaneous N-alkylation and rhenium(I) tricarbonyl complexation for 2-(2-thienyl)imidazo[4,5-f][1,10]-phenanthroline. Dyes and Pigments, 2020, 174, 108074.	2.0	12
98	Dynamic organic mechanoluminescence (ML): The roles of Mechano-induced conformational isomer and energy transfer from ML to photoluminescence (PL). Chemical Engineering Journal, 2022, 438, 135519.	6.6	12
99	Transparent Flexible Ultraâ€Low Permeability Encapsulation Film: Fusible Glass Fired on Heatâ€Resistant Polyimide Membrane. Advanced Materials Interfaces, 2020, 7, 2001170.	1.9	10
100	Pseudo target release behavior of simvastatin through pH-responsive polymer based on dynamic imine bonds: Promotes rapid proliferation of osteoblasts. Materials Science and Engineering C, 2020, 113, 110979.	3.8	10
101	From para to ortho: Incarnating conventional TADF molecules into AIE-TADF molecules for highly-efficient non-doped OLEDs. Chemical Engineering Journal, 2022, 442, 136219.	6.6	10
102	Nonvolatile electrical switching behavior and mechanism of functional polyimides bearing a pyrrole unit: influence of different side groups. RSC Advances, 2016, 6, 52798-52809.	1.7	9
103	Switchable mechanoresponsive luminescence from traditional triphenylamine-thiophene carbaldehyde luminogens. Dyes and Pigments, 2020, 174, 108110.	2.0	8
104	Spin coating of TPB film on acrylic substrate and measurement of its wavelength shifting efficiency. Nuclear Science and Techniques/Hewuli, 2020, 31, 1.	1.3	6
105	Rigid Polyimides with Thermally Activated Delayed Fluorescence for Polymer Lightâ€Emitting Diodes with High External Quantum Efficiency up to 21â€‰%. Angewandte Chemie, 2021, 133, 7296-7302.	1.6	6
106	Preparation of Nacreâ€Like Polyimide/Montmorillonite Composite Films with Excellent Water Vapor Barrier Properties by Gravityâ€Induced Deposition. Advanced Materials Interfaces, 2021, 8, 2001786.	1.9	5
107	Simple silver nanowire patterning using a DUV lamp direct write with solâ€“gel IZO capping. RSC Advances, 2017, 7, 33091-33097.	1.7	4
108	Functional polyimides based on diamine containing diarylethylene moieties and their photochromic mechanism studies. Polymer Chemistry, 2020, 11, 6701-6707.	1.9	3

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109	28â€2: Invited Paper: The Development of Highâ€Efficiency Pure Organic Lightâ€Emitting Materials and Highâ€Performance White OLEDs. Digest of Technical Papers SID International Symposium, 2021, 52, 353-356.	0.1	1
110	Background noise analysis and improvement for the water vapor and oxygen transmission rate test of free-standing films. Review of Scientific Instruments, 2021, 92, 025124.	0.6	0
111	AIE luminogens exhibiting thermally activated delayed fluorescence. , 2022, , 275-314.		0