

# Yi Zhang

## List of Publications by Year in descending order

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111  
papers

14,112  
citations

26567

56  
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24915

109  
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113  
docs citations

113  
times ranked

8493  
citing authors

#	ARTICLE	IF	CITATIONS
1	Temperature resistant amorphous polyimides with high intrinsic permittivity for electronic applications. <i>Chemical Engineering Journal</i> , 2022, 436, 135060.	6.6	38
2	Dynamic organic mechanoluminescence (ML): The roles of Mechano-induced conformational isomer and energy transfer from ML to photoluminescence (PL). <i>Chemical Engineering Journal</i> , 2022, 438, 135519.	6.6	12
3	From para to ortho: Incarnating conventional TADF molecules into AIE-TADF molecules for highly-efficient non-doped OLEDs. <i>Chemical Engineering Journal</i> , 2022, 442, 136219.	6.6	10
4	AIE luminogens exhibiting thermally activated delayed fluorescence. , 2022, , 275-314.		0
5	A Multi-â€Stimuli-â€Responsive Molecule with Responses to Light, Oxygen, and Mechanical Stress through Flexible Tuning of Triplet Excitons. <i>Advanced Optical Materials</i> , 2021, 9, 2001550.	3.6	32
6	A color-tunable single-component luminescent molecule with multiple emission centers. <i>Chemical Science</i> , 2021, 12, 9201-9206.	3.7	32
7	Rigid Polyimides with Thermally Activated Delayed Fluorescence for Polymer Light-â€Emitting Diodes with High External Quantum Efficiency up to 21â€%. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 7220-7226.	7.2	34
8	Rigid Polyimides with Thermally Activated Delayed Fluorescence for Polymer Light-â€Emitting Diodes with High External Quantum Efficiency up to 21â€%. <i>Angewandte Chemie</i> , 2021, 133, 7296-7302.	1.6	6
9	Background noise analysis and improvement for the water vapor and oxygen transmission rate test of free-standing films. <i>Review of Scientific Instruments</i> , 2021, 92, 025124.	0.6	0
10	28â€2: <i>Invited Paper:</i> The Development of High-â€Efficiency Pure Organic Light-â€Emitting Materials and High-â€Performance White OLEDs. <i>Digest of Technical Papers SID International Symposium</i> , 2021, 52, 353-356.	0.1	1
11	An Effective Strategy of Combining Surface Passivation and Secondary Grain Growth for Highly Efficient and Stable Perovskite Solar Cells. <i>Small</i> , 2021, 17, e2100678.	5.2	23
12	Colour-tunable dual-mode afterglows and helical-array-induced mechanoluminescence from AIE enantiomers: Effects of molecular arrangement on formation and decay of excited states. <i>Chemical Engineering Journal</i> , 2021, 418, 129167.	6.6	50
13	Intrinsic high- <i>k</i>-â€low-loss dielectric polyimides containing <i>ortho</i>-position aromatic nitrile moieties: reconsideration on Clausius-â€Mossotti equation. <i>Polymer Chemistry</i> , 2021, 12, 2481-2489.	1.9	40
14	Preparation of Nacre-â€Like Polyimide/Montmorillonite Composite Films with Excellent Water Vapor Barrier Properties by Gravity-â€Induced Deposition. <i>Advanced Materials Interfaces</i> , 2021, 8, 2001786.	1.9	5
15	Controlling the thermally activated delayed fluorescence of axially chiral organic emitters and their racemate for information encryption. <i>Chemical Science</i> , 2021, 12, 15556-15562.	3.7	21
16	Reversible and Continuous Color-Tunable Persistent Luminescence of Metal-Free Organic Materials by â€Self-â€Interface Energy Transfer. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 5073-5080.	4.0	45
17	Switchable mechanoresponsive luminescence from traditional triphenylamine-thiophene carbaldehyde luminogens. <i>Dyes and Pigments</i> , 2020, 174, 108110.	2.0	8
18	Aggregation-induced emission generation via simultaneous N-alkylation and rhenium(I) tricarbonyl complexation for 2-(2-thienyl)imidazo[4,5-f][1,10]-phenanthroline. <i>Dyes and Pigments</i> , 2020, 174, 108074.	2.0	12

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19	Functional polyimides based on diamine containing diarylethylene moieties and their photochromic mechanism studies. <i>Polymer Chemistry</i> , 2020, 11, 6701-6707.	1.9	3
20	Transparent Flexible Ultra-Low Permeability Encapsulation Film: Fusible Glass Fired on Heat-Resistant Polyimide Membrane. <i>Advanced Materials Interfaces</i> , 2020, 7, 2001170.	1.9	10
21	Boosting the Quantum Efficiency of Ultralong Organic Phosphorescence up to 52% via Intramolecular Halogen Bonding. <i>Angewandte Chemie</i> , 2020, 132, 17604-17608.	1.6	55
22	Asymmetric Sulfonyldibenzene-Based Hole-Transporting Materials for Efficient Perovskite Solar Cells: Inspiration from Organic Thermally-Activated Delayed Fluorescence Molecules. , 2020, 2, 1093-1100.		16
23	Pseudo target release behavior of simvastatin through pH-responsive polymer based on dynamic imine bonds: Promotes rapid proliferation of osteoblasts. <i>Materials Science and Engineering C</i> , 2020, 113, 110979.	3.8	10
24	Spin coating of TPB film on acrylic substrate and measurement of its wavelength shifting efficiency. <i>Nuclear Science and Techniques/Hewuli</i> , 2020, 31, 1.	1.3	6
25	Advanced functional polymer materials. <i>Materials Chemistry Frontiers</i> , 2020, 4, 1803-1915.	3.2	117
26	Preserving High-Efficiency Luminescence Characteristics of an Aggregation-Induced Emission-Active Fluorophore in Thermostable Amorphous Polymers. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 34198-34207.	4.0	20
27	Boosting the Quantum Efficiency of Ultralong Organic Phosphorescence up to 52% via Intramolecular Halogen Bonding. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 17451-17455.	7.2	253
28	Enabling dynamic ultralong organic phosphorescence in molecular crystals through the synergy between intramolecular and intermolecular interactions. <i>Journal of Materials Chemistry C</i> , 2020, 8, 7384-7392.	2.7	27
29	Performance enhancement in up-conversion nanoparticle-embedded perovskite solar cells by harvesting near-infrared sunlight. <i>Materials Chemistry Frontiers</i> , 2019, 3, 2058-2065.	3.2	23
30	A sterically hindered asymmetric D <sup>2</sup> thermally activated delayed fluorescence emitter for highly efficient non-doped organic light-emitting diodes. <i>Chemical Science</i> , 2019, 10, 8129-8134.	3.7	102
31	Nondoped Red Fluorophores with Hybridized Local and Charge-Transfer State for High-Performance Fluorescent White Organic Light-Emitting Diodes. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 39026-39034.	4.0	55
32	Achieving Dual-Emissive and Time-Dependent Evolutive Organic Afterglow by Bridging Molecules with Weak Intermolecular Hydrogen Bonding. <i>Advanced Optical Materials</i> , 2019, 7, 1801593.	3.6	101
33	Chirality-activated mechanoluminescence from aggregation-induced emission enantiomers with high contrast mechanochromism and force-induced delayed fluorescence. <i>Materials Chemistry Frontiers</i> , 2019, 3, 1800-1806.	3.2	81
34	Two-photon-excited ultralong organic room temperature phosphorescence by dual-channel triplet harvesting. <i>Chemical Science</i> , 2019, 10, 7352-7357.	3.7	98
35	Achievement of persistent and efficient organic room-temperature phosphorescence with temperature-response by adjusting the proportion of excited-state configurations in coupled molecules. <i>Journal of Materials Chemistry C</i> , 2019, 7, 8250-8254.	2.7	20
36	Facile Strategy for Intrinsic Low-Dielectric Polymers: Molecular Design Based on Secondary Relaxation Behavior. <i>Macromolecules</i> , 2019, 52, 4601-4609.	2.2	91

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37	Flexible and Fatigue-Resistant Ternary Electrical Memory Based on Alternative Copolysiloxane with Carbazole Donors and Imidazole-Modified Naphthalimide Acceptors. <i>Advanced Materials Technologies</i> , 2019, 4, 1900084.	3.0	12
38	Two thermally stable and AIE active 1,8-naphthalimide derivatives with red efficient thermally activated delayed fluorescence. <i>Dyes and Pigments</i> , 2019, 169, 81-88.	2.0	25
39	Improving Dielectric Properties and Thermostability of $\text{CaCu}_3\text{Ti}_4\text{O}_{12}$ /Polyimide Composites by Employing Surface Hydroxylated $\text{CaCu}_3\text{Ti}_4\text{O}_{12}$ Particles. <i>ACS Applied Polymer Materials</i> , 2019, 1, 1263-1271.	2.0	19
40	Synthesis and Properties of High Performance Functional Polyimides Containing Rigid Nonplanar Conjugated Fluorene Moieties. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2019, 37, 416-427.	2.0	43
41	Achieving tunable dual-emissive and high-contrast mechanochromic materials by manipulating steric hindrance effects. <i>Journal of Materials Chemistry C</i> , 2019, 7, 3300-3305.	2.7	38
42	Highly-Efficient Doped and Nondoped Organic Light-Emitting Diodes with External Quantum Efficiencies over 20% from a Multifunctional Green Thermally Activated Delayed Fluorescence Emitter. <i>Journal of Physical Chemistry C</i> , 2019, 123, 1015-1020.	1.5	42
43	Highly-efficient fully non-doped white organic light-emitting diodes consisting entirely of thermally activated delayed fluorescence emitters. <i>Journal of Materials Chemistry C</i> , 2018, 6, 3226-3232.	2.7	43
44	Transient and Persistent Room-Temperature Mechanoluminescence from a White-Light-Emitting AIEgen with Tricolor Emission Switching Triggered by Light. <i>Angewandte Chemie</i> , 2018, 130, 6559-6563.	1.6	87
45	Recent developments of truly stretchable thin film electronic and optoelectronic devices. <i>Nanoscale</i> , 2018, 10, 5764-5792.	2.8	91
46	A pH-responsive polymer based on dynamic imine bonds as a drug delivery material with pseudo target release behavior. <i>Polymer Chemistry</i> , 2018, 9, 878-884.	1.9	84
47	Flexible Multifunctional Aromatic Polyimide Film: Highly Efficient Photoluminescence, Resistive Switching Characteristic, and Electroluminescence. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 11430-11435.	4.0	33
48	Transient and Persistent Room-Temperature Mechanoluminescence from a White-Light-Emitting AIEgen with Tricolor Emission Switching Triggered by Light. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 6449-6453.	7.2	222
49	Recent advances in mechano-responsive luminescence of tetraphenylethylene derivatives with aggregation-induced emission properties. <i>Materials Chemistry Frontiers</i> , 2018, 2, 861-890.	3.2	339
50	Mechano-induced persistent room-temperature phosphorescence from purely organic molecules. <i>Chemical Science</i> , 2018, 9, 3782-3787.	3.7	97
51	Efficient triplet harvesting in fluorescence-TADF hybrid warm-white organic light-emitting diodes with a fully non-doped device configuration. <i>Journal of Materials Chemistry C</i> , 2018, 6, 4257-4264.	2.7	41
52	Modified halloysite nanotube filled polyimide composites for film capacitors: high dielectric constant, low dielectric loss and excellent heat resistance. <i>RSC Advances</i> , 2018, 8, 10522-10531.	1.7	43
53	An efficient yellow thermally activated delayed fluorescence emitter with universal applications in both doped and non-doped organic light-emitting diodes. <i>Materials Chemistry Frontiers</i> , 2018, 2, 1017-1023.	3.2	39
54	Recent progress in the mechanofluorochromism of cyanoethylene derivatives with aggregation-induced emission. <i>Journal of Materials Chemistry C</i> , 2018, 6, 6327-6353.	2.7	198

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55	Recent progress in the mechanofluorochromism of distyrylanthracene derivatives with aggregation-induced emission. <i>Materials Chemistry Frontiers</i> , 2018, 2, 1595-1608.	3.2	141
56	Fabricating high thermal conductivity rGO/polyimide nanocomposite films via a freeze-drying approach. <i>RSC Advances</i> , 2018, 8, 22169-22176.	1.7	24
57	Design, synthesis and photochromism studies of thienyl containing triarylethylene derivatives and their applications in real-time photoresponsive surfaces. <i>Journal of Materials Chemistry C</i> , 2018, 6, 8832-8838.	2.7	37
58	Alkyl Chain Introduction: In Situ Solar Renewable Colorful Organic Mechanoluminescence Materials. <i>Angewandte Chemie</i> , 2018, 130, 12909-12914.	1.6	20
59	Alkyl Chain Introduction: In Situ Solar Renewable Colorful Organic Mechanoluminescence Materials. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 12727-12732.	7.2	103
60	Weak interactions but potent effect: tunable mechanoluminescence by adjusting intermolecular C-H...N interactions. <i>Chemical Science</i> , 2018, 9, 5787-5794.	3.7	118
61	Gated photochromic molecules with AIEgen: turn-on the photochromism with an oxidation reagent. <i>RSC Advances</i> , 2018, 8, 18613-18618.	1.7	12
62	Recent advances in organic thermally activated delayed fluorescence materials. <i>Chemical Society Reviews</i> , 2017, 46, 915-1016.	18.7	1,815
63	A new approach to switchable photochromic materials by combining photochromism and piezochromism together in an AIE-active molecule. <i>Materials Chemistry Frontiers</i> , 2017, 1, 1900-1904.	3.2	56
64	An AEE-active polymer containing tetraphenylethene and 9,10-distyrylanthracene moieties with remarkable mechanochromism. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2017, 35, 282-292.	2.0	32
65	Hydrogen bonding-assisted loosely packed crystals of a diaminomaleonitrile-modified tetraphenylethene compound and their photo- and mechano-responsive properties. <i>Journal of Materials Chemistry C</i> , 2017, 5, 11867-11872.	2.7	25
66	Hydrogen Bonding-Assisted Intermolecular Charge Transfer: A New Strategy to Design Single-Component White-Light-Emitting Materials. <i>Advanced Functional Materials</i> , 2017, 27, 1703918.	7.8	84
67	Simple silver nanowire patterning using a DUV lamp direct write with sol-gel IZO capping. <i>RSC Advances</i> , 2017, 7, 33091-33097.	1.7	4
68	Intrinsic low dielectric constant polyimides: relationship between molecular structure and dielectric properties. <i>Journal of Materials Chemistry C</i> , 2017, 5, 12807-12815.	2.7	110
69	An oxidation-induced fluorescence turn-on approach for non-luminescent flexible polyimide films. <i>Journal of Materials Chemistry C</i> , 2017, 5, 8545-8552.	2.7	19
70	Multi-functional polyimides containing tetraphenyl fluorene moieties: fluorescence and resistive switching behaviors. <i>Journal of Materials Chemistry C</i> , 2017, 5, 6457-6466.	2.7	27
71	White-light emission from a single heavy atom-free molecule with room temperature phosphorescence, mechanochromism and thermochromism. <i>Chemical Science</i> , 2017, 8, 1909-1914.	3.7	168
72	The HOF structures of nitrotetraphenylethene derivatives provide new insights into the nature of AIE and a way to design mechanoluminescent materials. <i>Chemical Science</i> , 2017, 8, 1163-1168.	3.7	110

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73	Exceptionally thermostable and soluble aromatic polyimides with special characteristics: intrinsic ultralow dielectric constant, static random access memory behaviors, transparency and fluorescence. <i>Materials Chemistry Frontiers</i> , 2017, 1, 326-337.	3.2	61
74	Achieving very bright mechanoluminescence from purely organic luminophores with aggregation-induced emission by crystal design. <i>Chemical Science</i> , 2016, 7, 5307-5312.	3.7	125
75	Combined aggregation induced emission (AIE), photochromism and photoresponsive wettability in simple dichloro-substituted triphenylethylene derivatives. <i>Chemical Science</i> , 2016, 7, 5302-5306.	3.7	95
76	Flexible and highly fluorescent aromatic polyimide: design, synthesis, properties, and mechanism. <i>Journal of Materials Chemistry C</i> , 2016, 4, 10509-10517.	2.7	51
77	Intermolecular Electronic Coupling of Organic Units for Efficient Persistent Room-Temperature Phosphorescence. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 2181-2185.	7.2	548
78	Nonvolatile electrical switching behavior and mechanism of functional polyimides bearing a pyrrole unit: influence of different side groups. <i>RSC Advances</i> , 2016, 6, 52798-52809.	1.7	9
79	Synthesis and properties of highly organosoluble and low dielectric constant polyimides containing non-polar bulky triphenyl methane moiety. <i>Reactive and Functional Polymers</i> , 2016, 108, 71-77.	2.0	79
80	Achieving remarkable mechanochromism and white-light emission with thermally activated delayed fluorescence through the molecular heredity principle. <i>Chemical Science</i> , 2016, 7, 2201-2206.	3.7	210
81	White-Light Emission Strategy of a Single Organic Compound with Aggregation-Induced Emission and Delayed Fluorescence Properties. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 7181-7184.	7.2	427
82	White-Light Emission Strategy of a Single Organic Compound with Aggregation-Induced Emission and Delayed Fluorescence Properties. <i>Angewandte Chemie</i> , 2015, 127, 7287-7290.	1.6	83
83	Very bright mechanoluminescence and remarkable mechanochromism using a tetraphenylethene derivative with aggregation-induced emission. <i>Chemical Science</i> , 2015, 6, 3236-3241.	3.7	281
84	Linearly Tunable Emission Colors Obtained from a Fluorescent-Phosphorescent Dual-Emission Compound by Mechanical Stimuli. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 6270-6273.	7.2	315
85	A Bulk Dielectric Polymer Film with Intrinsic Ultralow Dielectric Constant and Outstanding Comprehensive Properties. <i>Chemistry of Materials</i> , 2015, 27, 6543-6549.	3.2	131
86	Influence of cyano groups on the properties of piezofluorochromic aggregation-induced emission enhancement compounds derived from tetraphenylvinyl-capped ethane. <i>Journal of Materials Chemistry C</i> , 2015, 3, 1225-1234.	2.7	88
87	An Organic Molecule with Asymmetric Structure Exhibiting Aggregation-Induced Emission, Delayed Fluorescence, and Mechanoluminescence. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 874-878.	7.2	378
88	Deep-blue luminescent compound that emits efficiently both in solution and solid state with considerable blue-shift upon aggregation. <i>Journal of Materials Chemistry C</i> , 2014, 2, 1068-1075.	2.7	61
89	An AIE-active luminophore with tunable and remarkable fluorescence switching based on the piezo and protonation-deprotonation control. <i>Chemical Communications</i> , 2014, 50, 7374-7377.	2.2	161
90	Polyimide nanocomposites with boron nitride-coated multi-walled carbon nanotubes for enhanced thermal conductivity and electrical insulation. <i>Journal of Materials Chemistry A</i> , 2014, 2, 20958-20965.	5.2	130

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91	New Strategy for Controlled Release of Drugs. Potential Pinpoint Targeting with Multiresponsive Tetraaniline Diblock Polymer Vesicles: Site-Directed Burst Release with Voltage. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 1470-1480.	4.0	25
92	Fluorescence-enhanced organogelators with mesomorphic and piezofluorochromic properties based on tetraphenylethylene and gallic acid derivatives. <i>Dyes and Pigments</i> , 2014, 101, 74-84.	2.0	47
93	Recent advances in mechanochromic luminescent metal complexes. <i>Journal of Materials Chemistry C</i> , 2013, 1, 3376.	2.7	570
94	An aggregation-induced emission luminophore with multi-stimuli single- and two-photon fluorescence switching and large two-photon absorption cross section. <i>Chemical Communications</i> , 2013, 49, 273-275.	2.2	126
95	Synthesis and properties of high-performance functional polyimides containing rigid nonplanar conjugated tetraphenylethylene moieties. <i>Journal of Polymer Science Part A</i> , 2013, 51, 1302-1314.	2.5	54
96	Influence of Carbazolyl Groups on Properties of Piezofluorochromic Aggregation-Enhanced Emission Compounds Containing Distyrylanthracene. <i>Journal of Physical Chemistry C</i> , 2012, 116, 23629-23638.	1.5	135
97	End-group effects of piezofluorochromic aggregation-induced enhanced emission compounds containing distyrylanthracene. <i>Journal of Materials Chemistry</i> , 2012, 22, 18505.	6.7	273
98	High-Performance Functional Polyimides Containing Rigid Nonplanar Conjugated Triphenylethylene Moieties. <i>Chemistry of Materials</i> , 2012, 24, 1212-1222.	3.2	122
99	Recent advances in organic mechanofluorochromic materials. <i>Chemical Society Reviews</i> , 2012, 41, 3878.	18.7	1,575
100	Piezofluorochromism and morphology of a new aggregation-induced emission compound derived from tetraphenylethylene and carbazole. <i>New Journal of Chemistry</i> , 2012, 36, 685-693.	1.4	100
101	Multifunctional organic fluorescent materials derived from 9,10-distyrylanthracene with alkoxy endgroups of various lengths. <i>Chemical Communications</i> , 2012, 48, 10895.	2.2	224
102	Aggregation-induced emission enhancement compounds containing triphenylamine-anthrylenevinylene and tetraphenylethylene moieties. <i>Journal of Materials Chemistry</i> , 2011, 21, 3760.	6.7	170
103	A new ligand and its complex with multi-stimuli-responsive and aggregation-induced emission effects. <i>Chemical Communications</i> , 2011, 47, 11080.	2.2	166
104	Piezofluorochromic Properties and Mechanism of an Aggregation-Induced Emission Enhancement Compound Containing <i>N</i> -Hexyl-phenothiazine and Anthracene Moieties. <i>Journal of Physical Chemistry B</i> , 2011, 115, 7606-7611.	1.2	259
105	New Thermally Stable Piezofluorochromic Aggregation-Induced Emission Compounds. <i>Organic Letters</i> , 2011, 13, 556-559.	2.4	210
106	Synthesis and Properties of Aggregation-Induced Emission Compounds Containing Triphenylethylene and Tetraphenylethylene Moieties. <i>Journal of Physical Chemistry C</i> , 2011, 115, 17574-17581.	1.5	83
107	Piezofluorochromism of an Aggregation-Induced Emission Compound Derived from Tetraphenylethylene. <i>Chemistry - an Asian Journal</i> , 2011, 6, 808-811.	1.7	294
108	Piezofluorochromic and Aggregation-Induced Emission Compounds Containing Triphenylethylene and Tetraphenylethylene Moieties. <i>Chemistry - an Asian Journal</i> , 2011, 6, 1470-1478.	1.7	150

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109	Synthesis and Properties of Diphenylcarbazole Triphenylethylene Derivatives with Aggregation-Induced Emission, Blue Light Emission and High Thermal Stability. <i>Journal of Fluorescence</i> , 2011, 21, 433-441.	1.3	29
110	New aggregation-induced emission enhancement materials combined triarylamine and dicarbazolyl triphenylethylene moieties. <i>Journal of Materials Chemistry</i> , 2010, 20, 6103.	6.7	95
111	Triphenylethylene carbazole derivatives as a new class of AIE materials with strong blue light emission and high glass transition temperature. <i>Journal of Materials Chemistry</i> , 2009, 19, 5541.	6.7	213