

Bin Tong

List of Publications by Year in descending order

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90
papers

3,407
citations

136885

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times ranked

2923
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#	ARTICLE	IF	CITATIONS
1	Wide-Range Color-Tunable Organic Phosphorescence Materials for Printable and Writable Security Inks. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 16054-16060.	7.2	340
2	Recent Progress in Pure Organic Room Temperature Phosphorescence of Small Molecular Host-Guest Systems. , 2021, 3, 379-397.		155
3	Aggregation-Induced Emission Enhancement of Aryl-Substituted Pyrrole Derivatives. <i>Journal of Physical Chemistry B</i> , 2010, 114, 16731-16736.	1.2	139
4	Defect-sensitive crystals based on diaminomaleonitrile-functionalized Schiff base with aggregation-enhanced emission. <i>Journal of Materials Chemistry C</i> , 2013, 1, 7314.	2.7	124
5	Advanced functional polymer materials. <i>Materials Chemistry Frontiers</i> , 2020, 4, 1803-1915.	3.2	117
6	Halogen Bonding: A New Platform for Achieving Multi-Stimuli-Responsive Persistent Phosphorescence. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	111
7	A highly sensitive, single selective, real-time and "turn-on" fluorescent sensor for Al ³⁺ detection in aqueous media. <i>Journal of Materials Chemistry</i> , 2012, 22, 19296.	6.7	110
8	Quantitation of Albumin in Serum Using "Turn-on" Fluorescent Probe with Aggregation-Enhanced Emission Characteristics. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 26094-26100.	4.0	93
9	Revealing Insight into Long-Lived Room-Temperature Phosphorescence of Host-Guest Systems. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 6019-6025.	2.1	90
10	Rational design of pyrrole derivatives with aggregation-induced phosphorescence characteristics for time-resolved and two-photon luminescence imaging. <i>Nature Communications</i> , 2021, 12, 4883.	5.8	90
11	Efficient and organic host-guest room-temperature phosphorescence: tunable triplet-singlet crossing and theoretical calculations for molecular packing. <i>Chemical Science</i> , 2021, 12, 6518-6525.	3.7	83
12	Achieving Efficient Phosphorescence and Mechanoluminescence in Organic Host-Guest System by Energy Transfer. <i>Advanced Functional Materials</i> , 2021, 31, 2108072.	7.8	74
13	Clusterization-Triggered Color-Tunable Room-Temperature Phosphorescence from 1,4-Dihydropyridine-Based Polymers. <i>Journal of the American Chemical Society</i> , 2022, 144, 1361-1369.	6.6	70
14	Diaminomaleonitrile-based Schiff bases: aggregation-enhanced emission, red fluorescence, mechanochromism and bioimaging applications. <i>Journal of Materials Chemistry C</i> , 2016, 4, 10430-10434.	2.7	65
15	Plasmon enhanced photoelectrochemical sensing of mercury (II) ions in human serum based on Au@Ag nanorods modified TiO ₂ nanosheets film. <i>Biosensors and Bioelectronics</i> , 2016, 79, 866-873.	5.3	60
16	Red fluorescent luminogen from pyrrole derivatives with aggregation-enhanced emission for cell membrane imaging. <i>Chemical Communications</i> , 2015, 51, 8555-8558.	2.2	54
17	Fluorene-based host-guest phosphorescence materials for information encryption. <i>Chemical Engineering Journal</i> , 2021, 426, 131607.	6.6	54
18	The Dual-State Luminescent Mechanism of 2,3,4,5-Tetraphenyl-1-pyrrole. <i>Chemistry - A European Journal</i> , 2018, 24, 14269-14274.	1.7	51

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19	Tunable fluorescence conjugated copolymers consisting of tetraphenylethylene and fluorene units: From aggregation-induced emission enhancement to dual-channel fluorescence response. <i>Journal of Polymer Science Part A</i> , 2013, 51, 229-240.	2.5	50
20	A strategy for the molecular design of aggregation-induced emission units further modified by substituents. <i>Materials Chemistry Frontiers</i> , 2018, 2, 1175-1183.	3.2	50
21	Polymorphism-dependent aggregation-induced emission of pyrrolopyrrole-based derivative and its multi-stimuli response behaviors. <i>Dyes and Pigments</i> , 2017, 139, 664-671.	2.0	48
22	Hyperbranched Poly(ferrocenylphenylenes): Synthesis, Characterization, Redox Activity, Metal Complexation, Pyrolytic Ceramization, and Soft Ferromagnetism. <i>Macromolecules</i> , 2007, 40, 8195-8204.	2.2	45
23	DMF-induced emission of an aryl-substituted pyrrole derivative: a solid thermo-responsive material to detect temperature in a specific range. <i>Journal of Materials Chemistry C</i> , 2013, 1, 7534.	2.7	42
24	MDM2-Associated Clusterization-Triggered Emission and Apoptosis Induction Effectuated by a Theranostic Spiropolymer. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 8435-8439.	7.2	42
25	Wide-Range Color-Tunable Organic Phosphorescence Materials for Printable and Writable Security Inks. <i>Angewandte Chemie</i> , 2020, 132, 16188-16194.	1.6	40
26	1,2,5-Triphenylpyrrole Derivatives with Dual Intense Photoluminescence in Both Solution and the Solid State: Solvatochromism and Polymorphic Luminescence Properties. <i>Chemistry - A European Journal</i> , 2019, 25, 573-581.	1.7	39
27	A novel strategy for realizing dual state fluorescence and low-temperature phosphorescence. <i>Materials Chemistry Frontiers</i> , 2019, 3, 284-291.	3.2	39
28	Red-Emissive Organic Room-Temperature Phosphorescence Material for Time-Resolved Luminescence Bioimaging. <i>CCS Chemistry</i> , 2022, 4, 2550-2559.	4.6	39
29	Application of a Novel Turn-on-Fluorescent Material to the Detection of Aluminum Ion in Blood Serum. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 23667-23673.	4.0	38
30	A fluorescent probe with an aggregation-enhanced emission feature for real-time monitoring of low carbon dioxide levels. <i>Journal of Materials Chemistry C</i> , 2015, 3, 7621-7626.	2.7	37
31	Functional Isocyanide-Based Polymers. <i>Accounts of Chemical Research</i> , 2020, 53, 2879-2891.	7.6	37
32	The fluorescent bioprobe with aggregation-induced emission features for monitoring to carbon dioxide generation rate in single living cell and early identification of cancer cells. <i>Biomaterials</i> , 2016, 103, 67-74.	5.7	34
33	Real time bioimaging for mitochondria by taking the aggregation process of aggregation-induced emission near-infrared dyes with wash-free staining. <i>Materials Chemistry Frontiers</i> , 2019, 3, 57-63.	3.2	33
34	Effect of Substituent Position on the Photophysical Properties of Triphenylpyrrole Isomers. <i>Journal of Physical Chemistry C</i> , 2017, 121, 11658-11664.	1.5	32
35	Crystallization, Mechanical and Flame-retardant Properties of Poly(lactic acid) Composites with DOPO and DOPO-POSS. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2018, 36, 871-879.	2.0	32
36	A highly sensitive turn-on-fluorescent probe with an aggregation-induced emission characteristic for quantitative detection of β -globulin. <i>Biosensors and Bioelectronics</i> , 2017, 92, 536-541.	5.3	31

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37	Aggregation-Induced Emission of Multiphenyl-Substituted 1,3-Butadiene Derivatives: Synthesis, Properties and Application. <i>Chemistry - A European Journal</i> , 2018, 24, 15965-15977.	1.7	30
38	Triphenylquinoline (TPQ)-Based Dual-State Emissive Probe for Cell Imaging in Multicellular Tumor Spheroids. <i>ACS Applied Bio Materials</i> , 2019, 2, 3686-3692.	2.3	30
39	Recent progress of aggregation-induced emission luminogens (AIEgens) for bacterial detection and theranostics. <i>Materials Chemistry Frontiers</i> , 2021, 5, 1164-1184.	3.2	29
40	Tunable fluorescence upon aggregation: Photophysical properties of cationic conjugated polyelectrolytes containing AIE and ACQ units and their use in the dual-channel quantification of heparin. <i>Sensors and Actuators B: Chemical</i> , 2014, 197, 334-341.	4.0	27
41	Aggregation-induced emission enhancement and aggregation-induced circular dichroism of chiral pentaphenylpyrrole derivatives and their helical self-assembly. <i>New Journal of Chemistry</i> , 2017, 41, 8877-8884.	1.4	27
42	Synthesis of Polyquinolines via One-Pot Polymerization of Alkyne, Aldehyde, and Aniline under Metal-Free Catalysis and Their Properties. <i>Macromolecules</i> , 2018, 51, 3254-3263.	2.2	27
43	Spontaneous Multicomponent Polymerization of Imidazole, Diacetylenic Esters, and Diisocyanates for the Preparation of Poly(^l 2-aminoacrylate)s with Cluster-Induced Emission Characteristics. <i>Macromolecules</i> , 2020, 53, 1054-1062.	2.2	27
44	Multicomponent spiro-polymerization of diisocyanides, alkynes and carbon dioxide for constructing 1,6-dioxospiro[4,4]nonane-3,8-diene as structural units under one-pot catalyst-free conditions. <i>Polymer Chemistry</i> , 2018, 9, 5543-5550.	1.9	26
45	Turn-on fluorescent probe with aggregation-induced emission characteristics for polyazoles. <i>Materials Chemistry Frontiers</i> , 2018, 2, 1779-1783.	3.2	26
46	Excited-State Modulation of Aggregation-Induced Emission Molecules for High-Efficiency Triplet Exciton Generation. , 2021, 3, 1767-1777.		26
47	Switching the emission of di(4-ethoxyphenyl)dibenzofulvene among multiple colors in the solid state. <i>Science China Chemistry</i> , 2013, 56, 1173-1177.	4.2	24
48	The selective detection of chloroform using an organic molecule with aggregation-induced emission properties in the solid state as a fluorescent sensor. <i>Sensors and Actuators B: Chemical</i> , 2016, 232, 264-268.	4.0	24
49	The Synergistic Effect between Triphenylpyrrole Isomers as Donors, Linking Groups, and Acceptors on the Fluorescence Properties of D- π -A Compounds in the Solid State. <i>Chemistry - A European Journal</i> , 2018, 24, 434-442.	1.7	23
50	Synthesis and Characterization of Poly(iminofuran-arylene) Containing Bromomethyl Groups Linked at the 5-Position of a Furan Ring via the Multicomponent Polymerizations of Diisocyanides, Dialkylacetylene Dicarboxylates, and Bis(2-bromoacetyl)biphenyl. <i>Macromolecules</i> , 2019, 52, 3319-3326.	2.2	23
51	Synthesis of Poly(amine- π -furan- π -arylene)s through a One-Pot Catalyst-Free in Situ Cyclopolymerization of Diisocyanide, Dialkylacetylene Dicarboxylates, and Dialdehyde. <i>Macromolecules</i> , 2019, 52, 729-737.	2.2	23
52	Effects of fused rings linked to the 2,5-position of pyrrole derivatives with near-infrared emission on their aggregation-enhanced emission properties. <i>Materials Chemistry Frontiers</i> , 2019, 3, 2072-2076.	3.2	21
53	The synthesis of chiral triphenylpyrrole derivatives and their aggregation-induced emission enhancement, aggregation-induced circular dichroism and helical self-assembly. <i>RSC Advances</i> , 2016, 6, 23420-23427.	1.7	20
54	Halogen Bonding: A New Platform for Achieving Multi-Stimuli-Responsive Persistent Phosphorescence. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	20

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55	Acetylene Polycyclootrimerization: Synthesis and Characterization of Ferrocene-Containing Hyperbranched Polyarylenes. <i>Macromolecules</i> , 2007, 40, 5612-5617.	2.2	19
56	Crystallization and flame-retardant properties of polylactic acid composites with polyhedral octaphenyl silsesquioxane. <i>Polymers for Advanced Technologies</i> , 2019, 30, 648-665.	1.6	19
57	Crystallization, flame-retardant, and mechanical behaviors of poly(lactic acid) based on poly(hydroxybutyrate-co-hydroxyvalerate) blends. <i>Journal of Applied Polymer Science</i> , 2019, 136, 46982.	1.3	19
58	Aggregation-induced emission enhancement in poly(phenylene-ethynylene)s bearing aniline groups. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2012, 30, 443-450.	2.0	18
59	Anthracene Modified by Aldehyde Groups Exhibiting Aggregation-Induced Emission Properties. <i>Chinese Journal of Chemistry</i> , 2016, 34, 1071-1075.	2.6	18
60	A stabilized lamellar liquid crystalline phase with aggregation-induced emission features based on pyrrolopyrrole derivatives. <i>Materials Chemistry Frontiers</i> , 2019, 3, 1105-1112.	3.2	17
61	Conformational sensitivity of tetraphenyl-1,3-butadiene derivatives with aggregation-induced emission characteristics. <i>Science China Chemistry</i> , 2019, 62, 1393-1397.	4.2	16
62	Synthesis and Properties of Photodegradable Poly(furan-amine)s by a Catalyst-free Multicomponent Cyclopolymerization. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2019, 37, 981-989.	2.0	15
63	Turn-on and color-switchable red luminescent liquid crystals based on pyrrolopyrrole derivatives. <i>Journal of Materials Chemistry C</i> , 2020, 8, 11177-11184.	2.7	15
64	Controlled Fabrication and Optoelectrical Properties of Metallo-supramolecular Films Based on Ruthenium(II) Phthalocyanines and 4,4'-Bipyridine Covalently Anchored on Inorganic Substrates. <i>Journal of Physical Chemistry B</i> , 2013, 117, 5338-5344.	1.2	14
65	Hydrogen-terminated Si Nanowires as Label-free Colorimetric Sensors in the Ultrasensitive and Highly Selective Detection of Fluoride Anions in Pure Water Phase. <i>Advanced Functional Materials</i> , 2015, 25, 1506-1510.	7.8	14
66	An AIEE polyelectrolyte as a light-up fluorescent probe for heparin sensing in full detection range. <i>Science China Chemistry</i> , 2013, 56, 1239-1246.	4.2	13
67	Aggregation-Induced Emission of Hexaphenyl-1,3-butadiene. <i>Chinese Journal of Chemistry</i> , 2015, 33, 701-704.	2.6	13
68	Catalyst-free Multicomponent Cyclopolymerizations of Diisocyanides, Activated Alkynes, and 1,4-dibromo-2,3-butanedione: a Facile Strategy toward Functional Polyiminofurans Containing Bromomethyl Groups. <i>Macromolecular Rapid Communications</i> , 2021, 42, e2000463.	2.0	13
69	Donor strategy for promoting nonradiative decay to achieve an efficient photothermal therapy for treating cancer. <i>Science China Chemistry</i> , 2021, 64, 1530-1539.	4.2	12
70	Light/temperature-enhanced emission characteristics of malononitrile-containing hexaphenyl-1,3-butadiene derivatives: the hotter, the brighter. <i>Materials Chemistry Frontiers</i> , 2017, 1, 2569-2573.	3.2	11
71	Preparation of highly crosslinked monodisperse poly(styrene-co-divinylbenzene) microspheres by two-stage dispersion polymerization. <i>Journal of Applied Polymer Science</i> , 2008, 109, 1189-1196.	1.3	10
72	The Aggregation Regularity Effect of Multiarylpyrroles on Their Near-Infrared Aggregation-Enhanced Emission Property. <i>Chemistry - A European Journal</i> , 2020, 26, 14947-14953.	1.7	10

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73	Synthesis and characterization of poly(ethene- <i>co</i> -ketone- <i>co</i> -arylene- <i>co</i> -ketone)s containing pendant methylthio groups via metal-free catalyzed copolymerization of arylalkynes with DMSO. <i>Polymer Chemistry</i> , 2018, 9, 4404-4412.	1.9	9
74	Ionic liquid crystals with aggregation-induced emission properties based on pyrrolo[3,2- <i>b</i>]pyrrole salt compounds. <i>Materials Chemistry Frontiers</i> , 2019, 3, 1385-1390.	3.2	9
75	Multicomponent Spiropolymerization of Diisocyanides, Diethyl Acetylenedicarboxylate, and Halogenated Quinones. <i>Macromolecular Rapid Communications</i> , 2021, 42, e2100029.	2.0	9
76	On-Water Polymerization of Phenylacetylene Catalyzed by Rh Complexes Bearing Strong π -Acidic Dibenzo[<i>a,e</i>]cyclooctatetraene Ligand. <i>Journal of Polymer Science Part A</i> , 2017, 55, 716-725.	2.5	8
77	The application of CO ₂ -sensitive AIEgen in studying the synergistic effect of stromal cells and tumor cells in a heterocellular system. <i>Analytica Chimica Acta</i> , 2018, 1001, 151-157.	2.6	8
78	Coumarin-substituted pyrrole derivatives with aggregation-enhanced emission characteristics for detecting the glass transition temperature of polymers. <i>Dyes and Pigments</i> , 2021, 188, 109222.	2.0	8
79	Monomer-induced switching of stereoselectivity and limitation of chain growth in the polymerization of amine-containing para-substituted phenylacetylenes by [Rh(norbornadiene)Cl] ₂ . <i>Polymer Chemistry</i> , 2017, 8, 5761-5768.	1.9	7
80	Effect of bilayer number on the photoluminescent property of TPE-based self-assembled film. <i>Science Bulletin</i> , 2013, 58, 2728-2732.	1.7	6
81	MDM ² -Associated Clusterization-Triggered Emission and Apoptosis Induction Effectuated by a Theranostic Spiropolymer. <i>Angewandte Chemie</i> , 2020, 132, 8513-8517.	1.6	6
82	The fluorescence properties of 4-Methoxychalcone derivatives modified by substituents and investigation of lysosomal imaging. <i>Dyes and Pigments</i> , 2022, 199, 110091.	2.0	6
83	Multicomponent Spiropolymerization of Diisocyanides, Activated Alkynes, and Bis-Anhydrides. <i>Macromolecules</i> , 2022, 55, 6150-6159.	2.2	6
84	Synthesis and properties of side chain liquid crystalline ionomers containing quaternary ammonium salt groups. <i>Liquid Crystals</i> , 2004, 31, 509-518.	0.9	4
85	Aggregation-Induced Emission and Applications of Aryl-Substituted Pyrrole Derivatives. , 0, , 131-155.		3
86	Frontispiece: Aggregation-Induced Emission of Multiphenyl-Substituted 1,3-Butadiene Derivatives: Synthesis, Properties and Application. <i>Chemistry - A European Journal</i> , 2018, 24, .	1.7	2
87	A supramolecular approach for the synthesis of cross-linked ionic polyacetylene network gels. <i>Materials Chemistry Frontiers</i> , 2020, 4, 645-650.	3.2	2
88	Selective detection of phosphaphenanthrene-containing luminophors with aggregation-induced emission enhancement to transition metal ions. <i>Frontiers of Chemistry in China: Selected Publications From Chinese Universities</i> , 2011, 6, 15-20.	0.4	1
89	Halogen Bonding: A New Platform for Achieving Multi-Stimuli-Responsive Persistent Phosphorescence (<i>Angew. Chem.</i> 13/2022). <i>Angewandte Chemie</i> , 2022, 134, .	1.6	1
90	Colorimetric Sensors: Hydrogen-Terminated Si Nanowires as Label-Free Colorimetric Sensors in the Ultrasensitive and Highly Selective Detection of Fluoride Anions in Pure Water Phase (<i>Adv. Funct. Mater.</i>)	0.0	0