

Jianzhao Liu

List of Publications by Year in descending order

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103
papers

18,941
citations

28736

57
h-index

34195

103
g-index

110
all docs

110
docs citations

110
times ranked

19104
citing authors

#	ARTICLE	IF	CITATIONS
1	Key progresses of MOE key laboratory of macromolecular synthesis and functionalization in 2020. Chinese Chemical Letters, 2022, 33, 1650-1658.	4.8	47
2	m6A-label-seq: A metabolic labeling protocol to detect transcriptome-wide mRNA N6-methyladenosine (m6A) at base resolution. STAR Protocols, 2022, 3, 101096.	0.5	9
3	ALKBH3-dependent m1A demethylation of Aurora A mRNA inhibits ciliogenesis. Cell Discovery, 2022, 8, 25.	3.1	20
4	Targeted Manipulation of Cellular RNA m ⁶ A Methylation at the Single-Base Level. ACS Chemical Biology, 2022, 17, 854-863.	1.6	4
5	New Chromatin Run-On Reaction Enables Global Mapping of Active RNA Polymerase Locations in an Enrichment-free Manner. ACS Chemical Biology, 2022, 17, 768-775.	1.6	3
6	N4-allyldeoxycytidine: A New DNA Tag with Chemical Sequencing Power for Pinpointing Labelling Sites, Mapping Epigenetic Mark, and in situ Imaging. ChemBioChem, 2022, , .	1.3	0
7	N6-methyladenosine modification-mediated mRNA metabolism is essential for human pancreatic lineage specification and islet organogenesis. Nature Communications, 2022, 13, .	5.8	7
8	A multifunctional piperazine-modified tetraphenylethene derivative: Hazardous chemical detection and lysosome-targeted cell imaging. Journal of Luminescence, 2022, 250, 119068.	1.5	1
9	Precise identification of an RNA methyltransferase's substrate modification site. Chemical Communications, 2021, 57, 2499-2502.	2.2	7
10	A Mutation-Based Method for Pinpointing a DNA N6-Methyladenine Methyltransferase Modification Site at Single Base Resolution. ChemBioChem, 2021, 22, 1936-1939.	1.3	4
11	The RNA binding protein FgRbp1 regulates specific pre-mRNA splicing via interacting with U2AF23 in Fusarium. Nature Communications, 2021, 12, 2661.	5.8	10
12	Mapping messenger RNA methylations at single base resolution. Current Opinion in Chemical Biology, 2021, 63, 28-37.	2.8	17
13	Synthetic modified messenger RNA for therapeutic applications. Acta Biomaterialia, 2021, 131, 1-15.	4.1	34
14	N6-Deoxyadenosine Methylation in Mammalian Mitochondrial DNA. Molecular Cell, 2020, 78, 382-395.e8.	4.5	156
15	A metabolic labeling method detects m6A transcriptome-wide at single base resolution. Nature Chemical Biology, 2020, 16, 887-895.	3.9	133
16	Visualization and quantification of cellular RNA production and degradation using a combined fluorescence and mass spectrometry characterization assay. Chemical Communications, 2019, 55, 8321-8324.	2.2	7
17	Specific Targeting, Imaging, and Ablation of Tumor-Associated Macrophages by Theranostic Mannose-AGE Conjugates. Analytical Chemistry, 2019, 91, 6836-6843.	3.2	35
18	VIRMA mediates preferential m6A mRNA methylation in 5'UTR and near stop codon and associates with alternative polyadenylation. Cell Discovery, 2018, 4, 10.	3.1	643

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19	A unimolecular theranostic system with H ₂ O ₂ -specific response and AIE-activity for doxorubicin releasing and real-time tracking in living cells. RSC Advances, 2018, 8, 10975-10979.	1.7	24
20	Circadian Clock Regulation of Hepatic Lipid Metabolism by Modulation of m6A mRNA Methylation. Cell Reports, 2018, 25, 1816-1828.e4.	2.9	207
21	Biochromic silole derivatives: a single dye for differentiation, quantitation and imaging of live/dead cells. Materials Horizons, 2018, 5, 969-978.	6.4	15
22	m6A mRNA methylation regulates AKT activity to promote the proliferation and tumorigenicity of endometrial cancer. Nature Cell Biology, 2018, 20, 1074-1083.	4.6	592
23	A two-channel responsive fluorescent probe with AIE characteristics and its application for selective imaging of superoxide anions in living cells. Chemical Communications, 2017, 53, 1653-1656.	2.2	106
24	<i>N</i> ⁶ -Allyladenosine: A New Small Molecule for RNA Labeling Identified by Mutation Assay. Journal of the American Chemical Society, 2017, 139, 17213-17216.	6.6	59
25	Characterization of eukaryotic DNA N6-methyladenine by a highly sensitive restriction enzyme-assisted sequencing. Nature Communications, 2016, 7, 11301.	5.8	93
26	Abundant DNA m6A methylation during early embryogenesis of zebrafish and pig. Nature Communications, 2016, 7, 13052.	5.8	225
27	Two-Dimensional Hierarchical Supramolecular Assembly of a Silole Derivative and Surface-Assisted Chemical Transformations. Journal of Physical Chemistry C, 2015, 119, 3857-3863.	1.5	7
28	RNA <i>N</i> ⁶ -methyladenosine methylation in post-transcriptional gene expression regulation. Genes and Development, 2015, 29, 1343-1355.	2.7	727
29	Preparation of Human Nuclear RNA m6A Methyltransferases and Demethylases and Biochemical Characterization of Their Catalytic Activity. Methods in Enzymology, 2015, 560, 117-130.	0.4	7
30	N6-Methyladenine DNA Modification in Drosophila. Cell, 2015, 161, 893-906.	13.5	570
31	DNA Methylation on N6-Adenine in C.Âlegans. Cell, 2015, 161, 868-878.	13.5	602
32	N6-Methyldeoxyadenosine Marks Active Transcription Start Sites in Chlamydomonas. Cell, 2015, 161, 879-892.	13.5	477
33	Polyphenylsilole multilayers â€“ an insight from X-ray electron spectroscopy and density functional theory. Physical Chemistry Chemical Physics, 2015, 17, 31117-31124.	1.3	5
34	A METTL3â€“METTL14 complex mediates mammalian nuclear RNA N6-adenosine methylation. Nature Chemical Biology, 2014, 10, 93-95.	3.9	2,342
35	Complexation-induced circular dichroism and circularly polarised luminescence of an aggregation-induced emission luminogen. Journal of Materials Chemistry C, 2014, 2, 78-83.	2.7	69
36	A protein engineered to bind uranyl selectively and with femtomolar affinity. Nature Chemistry, 2014, 6, 236-241.	6.6	262

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37	Crafting NPB with tetraphenylethene: a win-win strategy to create stable and efficient solid-state emitters with aggregation-induced emission feature, high hole-transporting property and efficient electroluminescence. <i>Journal of Materials Chemistry C</i> , 2014, 2, 3756-3761.	2.7	40
38	Discrimination of homocysteine, cysteine and glutathione using an aggregation-induced-emission-active hemicyanine dye. <i>Journal of Materials Chemistry B</i> , 2014, 2, 3919-3923.	2.9	33
39	Valine-containing silole: synthesis, aggregation-induced chirality, luminescence enhancement, chiral-polarized luminescence and self-assembled structures. <i>Journal of Materials Chemistry C</i> , 2014, 2, 4615.	2.7	58
40	Direct Visualization of Surface-Assisted Two-Dimensional Diyne Polycyclotrimerization. <i>Journal of the American Chemical Society</i> , 2014, 136, 5567-5570.	6.6	123
41	How do substituents affect silole emission?. <i>Journal of Materials Chemistry C</i> , 2013, 1, 5661.	2.7	40
42	AIE Materials Towards Efficient Circularly Polarized Luminescence, Organic Lasing, and Superamplified Detection of Explosives. , 2013, , 107-129.		0
43	Poly(arylene ynonylene) with an aggregation-enhanced emission characteristic: a fluorescent sensor for both hydrazine and explosive detection. <i>RSC Advances</i> , 2013, 3, 8193.	1.7	56
44	Photostable fluorescent organic dots with aggregation-induced emission (AIE dots) for noninvasive long-term cell tracing. <i>Scientific Reports</i> , 2013, 3, 1150.	1.6	319
45	Construction of Functional Macromolecules with Well-Defined Structures by Indium-Catalyzed Three-Component Polycoupling of Alkynes, Aldehydes, and Amines. <i>Macromolecules</i> , 2013, 46, 3246-3256.	2.2	97
46	Conjugated Polymer Amplified Far-Red/Near-Infrared Fluorescence from Nanoparticles with Aggregation-Induced Emission Characteristics for Targeted In Vivo Imaging. <i>Advanced Healthcare Materials</i> , 2013, 2, 500-507.	3.9	113
47	Full-Range Intracellular pH Sensing by an Aggregation-Induced Emission-Active Two-Channel Ratiometric Fluorogen. <i>Journal of the American Chemical Society</i> , 2013, 135, 4926-4929.	6.6	394
48	Imaging: Conjugated Polymer Amplified Far-Red/Near-Infrared Fluorescence from Nanoparticles with Aggregation-Induced Emission Characteristics for Targeted In Vivo Imaging (<i>Adv. Healthcare Mater.</i>) Tj ETQq0 0 OrqBT /Overlock 10 T		
49	Carbazole-Functionalised Poly(1-phenyl-1-alkyne)s: Synthesis, Light Emission, and Fluorescent Photopatterning. <i>Australian Journal of Chemistry</i> , 2012, 65, 1228.	0.5	1
50	Monitoring and Inhibition of Insulin Fibrillation by a Small Organic Fluorogen with Aggregation-Induced Emission Characteristics. <i>Journal of the American Chemical Society</i> , 2012, 134, 1680-1689.	6.6	351
51	Specific Detection of Integrin $\alpha_5\beta_3$ by Light-Up Bioprobe with Aggregation-Induced Emission Characteristics. <i>Journal of the American Chemical Society</i> , 2012, 134, 9569-9572.	6.6	378
52	Real-Time Monitoring of Cell Apoptosis and Drug Screening Using Fluorescent Light-Up Probe with Aggregation-Induced Emission Characteristics. <i>Journal of the American Chemical Society</i> , 2012, 134, 17972-17981.	6.6	545
53	Lipid-PEG-Folate Encapsulated Nanoparticles with Aggregation Induced Emission Characteristics: Cellular Uptake Mechanism and Two-Photon Fluorescence Imaging. <i>Small</i> , 2012, 8, 3655-3663.	5.2	139
54	Hyperbranched Conjugated Polyelectrolyte for Dual-Modality Fluorescence and Magnetic Resonance Cancer Imaging. <i>Small</i> , 2012, 8, 3523-3530.	5.2	41

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55	Facile preparation of non-self-quenching fluorescent DNA strands with the degree of labeling up to the theoretic limit. <i>Chemical Communications</i> , 2012, 48, 6360.	2.2	31
56	Deciphering mechanism of aggregation-induced emission (AIE): Is E ⁺ Zisomerisation involved in an AIE process?. <i>Chemical Science</i> , 2012, 3, 493-497.	3.7	122
57	Silole-containing poly(silylenevinylene)s: Synthesis, characterization, aggregation-enhanced emission, and explosive detection. <i>Journal of Polymer Science Part A</i> , 2012, 50, 2265-2274.	2.5	33
58	An AIE-active hemicyanine fluorogen with stimuli-responsive red/blue emission: extending the pH sensing range by a switch + knob effect. <i>Chemical Science</i> , 2012, 3, 1804.	3.7	171
59	Hyperbranched conjugated poly(tetraphenylethene): synthesis, aggregation-induced emission, fluorescent photopatterning, optical limiting and explosive detection. <i>Polymer Chemistry</i> , 2012, 3, 1481.	1.9	117
60	Luminescent and Light Refractive Polymers: Synthesis and Optical and Photonic Properties of Poly(arylene ethynylene)s Carrying Silole and Tetraphenylethene Luminogenic Units. <i>Macromolecular Rapid Communications</i> , 2012, 33, 568-572.	2.0	24
61	What makes efficient circularly polarised luminescence in the condensed phase: aggregation-induced circular dichroism and light emission. <i>Chemical Science</i> , 2012, 3, 2737.	3.7	338
62	Supersensitive detection of explosives by recyclable AIE luminogen-functionalized mesoporous materials. <i>Chemical Communications</i> , 2012, 48, 7167.	2.2	214
63	Efficient Light Emitters in the Solid State: Synthesis, Aggregation-Induced Emission, Electroluminescence, and Sensory Properties of Luminogens with Benzene Cores and Multiple Triarylvinyl Peripherals. <i>Advanced Functional Materials</i> , 2012, 22, 378-389.	7.8	198
64	Biocompatible Nanoparticles with Aggregation-Induced Emission Characteristics as Far-Red/Near-Infrared Fluorescent Bioprobes for In Vitro and In Vivo Imaging Applications. <i>Advanced Functional Materials</i> , 2012, 22, 771-779.	7.8	599
65	A new polymerisation route to conjugated polymers: regio- and stereoselective synthesis of linear and hyperbranched poly(arylene chlorovinylene)s by decarbonylative polyaddition of aroyl chlorides and alkynes. <i>Chemical Science</i> , 2011, 2, 1850.	3.7	17
66	Regioselective Alkyne Polyhydrosilylation: Synthesis and Photonic Properties of Poly(silylenevinylene)s. <i>Macromolecules</i> , 2011, 44, 5977-5986.	2.2	52
67	Thiol-Yne Click Polymerization: Regio- and Stereoselective Synthesis of Sulfur-Rich Acetylenic Polymers with Controllable Chain Conformations and Tunable Optical Properties. <i>Macromolecules</i> , 2011, 44, 68-79.	2.2	100
68	Fluorogenic Zn(II) and Chromogenic Fe(II) Sensors Based on Terpyridine-Substituted Tetraphenylethenes with Aggregation-Induced Emission Characteristics. <i>ACS Applied Materials & Interfaces</i> , 2011, 3, 3411-3418.	4.0	189
69	Covalent Immobilization of Aggregation-Induced Emission Luminogens in Silica Nanoparticles Through Click Reaction. <i>Small</i> , 2011, 7, 1448-1455.	5.2	59
70	Fabrication of Silica Nanoparticles with Both Efficient Fluorescence and Strong Magnetization and Exploration of Their Biological Applications. <i>Advanced Functional Materials</i> , 2011, 21, 1733-1740.	7.8	122
71	Cytophilic Fluorescent Bioprobes for Long-Term Cell Tracking. <i>Advanced Materials</i> , 2011, 23, 3298-3302.	11.1	238
72	Stereoselective Synthesis, Efficient Light Emission, and High Bipolar Charge Mobility of Chiasmatic Luminogens. <i>Advanced Materials</i> , 2011, 23, 5430-5435.	11.1	105

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73	Luminescent aggregates of a starburst silole-triphenylamine adduct for sensitive explosive detection. <i>Dyes and Pigments</i> , 2011, 91, 258-263.	2.0	34
74	Hyperbranched Conjugated Polysiloles: Synthesis, Structure, Aggregation-Enhanced Emission, Multicolor Fluorescent Photopatterning, and Superamplified Detection of Explosives. <i>Macromolecules</i> , 2010, 43, 4921-4936.	2.2	216
75	Fluorescent Bioprobes: Structural Matching in the Docking Processes of Aggregation-Induced Emission Fluorogens on DNA Surfaces. <i>Chemistry - A European Journal</i> , 2010, 16, 1232-1245.	1.7	162
76	Fabrication of Fluorescent Silica Nanoparticles Hybridized with AIE Luminogens and Exploration of Their Applications as Nanobiosensors in Intracellular Imaging. <i>Chemistry - A European Journal</i> , 2010, 16, 4266-4272.	1.7	124
77	Aggregation-Induced Emission in a Hyperbranched Poly(silylenevinylene) and Superamplification in Its Emission Quenching by Explosives. <i>Macromolecular Rapid Communications</i> , 2010, 31, 834-839.	2.0	93
78	Quantitation, Visualization, and Monitoring of Conformational Transitions of Human Serum Albumin by a Tetraphenylethene Derivative with Aggregation-Induced Emission Characteristics. <i>Analytical Chemistry</i> , 2010, 82, 7035-7043.	3.2	206
79	A superamplification effect in the detection of explosives by a fluorescent hyperbranched poly(silylenephénylene) with aggregation-enhanced emission characteristics. <i>Polymer Chemistry</i> , 2010, 1, 426-429.	1.9	288
80	Ferrocene-Functionalized Hyperbranched Polyphenylenes: Synthesis, Redox Activity, Light Refraction, Transition-Metal Complexation, and Precursors to Magnetic Ceramics. <i>Macromolecules</i> , 2010, 43, 680-690.	2.2	58
81	Cobalt-Containing Hyperbranched Poly(silylenearylene)s. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2009, 19, 133-138.	1.9	8
82	Aggregation-induced Emission of Silole Molecules and Polymers: Fundamental and Applications. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2009, 19, 249-285.	1.9	309
83	Synthesis of an AIE-active fluorogen and its application in cell imaging. <i>Science in China Series B: Chemistry</i> , 2009, 52, 15-19.	0.8	49
84	Acetylenic Polymers: Syntheses, Structures, and Functions. <i>Chemical Reviews</i> , 2009, 109, 5799-5867.	23.0	1,122
85	Single Molecule's Conductance Depending On Its Orientation. <i>Journal of Physical Chemistry C</i> , 2009, 113, 26-30.	1.5	7
86	Facile Polycyclotrimerization of Simple Arylene Bipropiolates: A Metal-Free, Regioselective Route to Functional Hyperbranched Polymers with High Optical Transparency, Tunable Refractive Index, Low Chromatic Aberration, and Photoresponsive Patternability. <i>Macromolecules</i> , 2009, 42, 4099-4109.	2.2	41
87	Exploration of Effective Catalysts for Diyne Polycyclotrimerization, Synthesis of an Ester-Functionalized Hyperbranched Polyphenylene, and Demonstration of Its Utility as a Molecular Container with Implication for Controlled Drug Delivery. <i>Macromolecules</i> , 2009, 42, 7367-7378.	2.2	24
88	Twisted Intramolecular Charge Transfer and Aggregation-Induced Emission of BODIPY Derivatives. <i>Journal of Physical Chemistry C</i> , 2009, 113, 15845-15853.	1.5	856
89	Novel <i>meso</i> -Polyarylamine-BODIPY Hybrids: Synthesis and Study of Their Optical Properties. <i>Journal of Organic Chemistry</i> , 2009, 74, 2053-2058.	1.7	126
90	Amine-catalyzed polycyclotrimerization of arylene bipropiolate: A metal-free and regioselective route to hyperbranched polymer. <i>Science in China Series B: Chemistry</i> , 2008, 51, 705-708.	0.8	9

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91	Label-Free Fluorescent Probing of G-Quadruplex Formation and Real-Time Monitoring of DNA Folding by a Quaternized Tetraphenylethene Salt with Aggregation-Induced Emission Characteristics. <i>Chemistry - A European Journal</i> , 2008, 14, 6428-6437.	1.7	264
92	Synthesis and Light-Emitting Properties of Disubstituted Polyacetylenes Carrying Chromophoric Naphthylethynylphenyl Pendants. <i>Journal of Physical Chemistry B</i> , 2008, 112, 11227-11235.	1.2	17
93	Aggregation-Enhanced Emissions of Intramolecular Excimers in Disubstituted Polyacetylenes. <i>Journal of Physical Chemistry B</i> , 2008, 112, 9281-9288.	1.2	166
94	Hyperbranched Polytriazoles: Click Polymerization, Regioisomeric Structure, Light Emission, and Fluorescent Patterning. <i>Macromolecules</i> , 2008, 41, 3808-3822.	2.2	167
95	Aggregation-induced emissions of tetraphenylethene derivatives and their utilities as chemical vapor sensors and in organic light-emitting diodes. <i>Applied Physics Letters</i> , 2007, 91, .	1.5	479
96	Aggregation-induced and crystallization-enhanced emissions of 1,2-diphenyl-3,4-bis(diphenylmethylene)-1-cyclobutene. <i>Chemical Communications</i> , 2007, , 3255.	2.2	257
97	Disubstituted Polyacetylenes Containing Photopolymerizable Vinyl Groups and Polar Ester Functionality: Polymer Synthesis, Aggregation-Enhanced Emission, and Fluorescent Pattern Formation. <i>Macromolecules</i> , 2007, 40, 3159-3166.	2.2	99
98	Synthesis, Thermal Stability, and Linear and Nonlinear Optical Properties of Hyperbranched Polyarylenes Containing Carbazole and/or Fluorene Moieties. <i>Macromolecules</i> , 2007, 40, 1914-1925.	2.2	63
99	Hyperbranched Poly(silylenephenylenes) from Polycyclotrimerization of A2-Type Diyne Monomers: Synthesis, Characterization, Structural Modeling, Thermal Stability, and Fluorescent Patterning. <i>Macromolecules</i> , 2007, 40, 7473-7486.	2.2	57
100	Metallized hyperbranched polydiyne: a photonic material with a large refractive index tunability and a spin-coatable catalyst for facile fabrication of carbon nanotubes. <i>Chemical Communications</i> , 2007, , 2584-2586.	2.2	28
101	Endowing hexaphenylsilole with chemical sensory and biological probing properties by attaching amino pendants to the silolyl core. <i>Chemical Physics Letters</i> , 2007, 446, 124-127.	1.2	132
102	Polycyclotrimerization of aromatic diynes: Synthesis, thermal stability, and light-emitting properties of hyperbranched polyarylenes. <i>Journal of Polymer Science Part A</i> , 2007, 45, 4249-4263.	2.5	10
103	Synthesis and characterization of optically active star-shaped poly (N-phenylmaleimide)s with a calixarene core. <i>Polymer International</i> , 2007, 56, 796-802.	1.6	13