

Jianzhao Liu

List of Publications by Year in descending order

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103
papers

18,941
citations

25034

57
h-index

30087

103
g-index

110
all docs

110
docs citations

110
times ranked

17247
citing authors

#	ARTICLE	IF	CITATIONS
1	A METTL3-METTL14 complex mediates mammalian nuclear RNA N6-adenosine methylation. <i>Nature Chemical Biology</i> , 2014, 10, 93-95.	8.0	2,342
2	Acetylenic Polymers: Syntheses, Structures, and Functions. <i>Chemical Reviews</i> , 2009, 109, 5799-5867.	47.7	1,122
3	Twisted Intramolecular Charge Transfer and Aggregation-Induced Emission of BODIPY Derivatives. <i>Journal of Physical Chemistry C</i> , 2009, 113, 15845-15853.	3.1	856
4	RNA N6-methyladenosine methylation in post-transcriptional gene expression regulation. <i>Genes and Development</i> , 2015, 29, 1343-1355.	5.9	727
5	VIRMA mediates preferential m6A mRNA methylation in 5'UTR and near stop codon and associates with alternative polyadenylation. <i>Cell Discovery</i> , 2018, 4, 10.	6.7	643
6	DNA Methylation on N6-Adenine in <i>C.Âelegans</i> . <i>Cell</i> , 2015, 161, 868-878.	28.9	602
7	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.	14.9	599
8	m6A mRNA methylation regulates AKT activity to promote the proliferation and tumorigenicity of endometrial cancer. <i>Nature Cell Biology</i> , 2018, 20, 1074-1083.	10.3	592
9	N6-Methyladenine DNA Modification in <i>Drosophila</i> . <i>Cell</i> , 2015, 161, 893-906.	28.9	570
10	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.	13.7	545
11	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, .	3.3	479
12	N6-Methyldeoxyadenosine Marks Active Transcription Start Sites in <i>Chlamydomonas</i> . <i>Cell</i> , 2015, 161, 879-892.	28.9	477
13	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.	13.7	394
14	Specific Detection of Integrin $\alpha_v\beta_3$ by Light-Up Bioprobe with Aggregation-Induced Emission Characteristics. <i>Journal of the American Chemical Society</i> , 2012, 134, 9569-9572.	13.7	378
15	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.	13.7	351
16	What makes efficient circularly polarised luminescence in the condensed phase: aggregation-induced circular dichroism and light emission. <i>Chemical Science</i> , 2012, 3, 2737.	7.4	338
17	Photostable fluorescent organic dots with aggregation-induced emission (AIE dots) for noninvasive long-term cell tracing. <i>Scientific Reports</i> , 2013, 3, 1150.	3.3	319
18	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.	3.7	309

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19	A superamplification effect in the detection of explosives by a fluorescent hyperbranched poly(silylenephylene) with aggregation-enhanced emission characteristics. <i>Polymer Chemistry</i> , 2010, 1, 426-429.	3.9	288
20	Label-Free Fluorescent Probing of Ca ²⁺ 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.	3.3	264
21	A protein engineered to bind uranyl selectively and with femtomolar affinity. <i>Nature Chemistry</i> , 2014, 6, 236-241.	13.6	262
22	Aggregation-induced and crystallization-enhanced emissions of 1,2-diphenyl-3,4-bis(diphenylmethylene)-1-cyclobutene. <i>Chemical Communications</i> , 2007, , 3255.	4.1	257
23	Cytophilic Fluorescent Bioprobes for Long-Term Cell Tracking. <i>Advanced Materials</i> , 2011, 23, 3298-3302.	21.0	238
24	Abundant DNA 6mA methylation during early embryogenesis of zebrafish and pig. <i>Nature Communications</i> , 2016, 7, 13052.	12.8	225
25	Hyperbranched Conjugated Polysiloles: Synthesis, Structure, Aggregation-Enhanced Emission, Multicolor Fluorescent Photopatterning, and Superamplified Detection of Explosives. <i>Macromolecules</i> , 2010, 43, 4921-4936.	4.8	216
26	Supersensitive detection of explosives by recyclable AIE luminogen-functionalized mesoporous materials. <i>Chemical Communications</i> , 2012, 48, 7167.	4.1	214
27	Circadian Clock Regulation of Hepatic Lipid Metabolism by Modulation of m6A mRNA Methylation. <i>Cell Reports</i> , 2018, 25, 1816-1828.e4.	6.4	207
28	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.	6.5	206
29	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.	14.9	198
30	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.	8.0	189
31	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.	7.4	171
32	Hyperbranched Polytriazoles: Click Polymerization, Regioisomeric Structure, Light Emission, and Fluorescent Patterning. <i>Macromolecules</i> , 2008, 41, 3808-3822.	4.8	167
33	Aggregation-Enhanced Emissions of Intramolecular Excimers in Disubstituted Polyacetylenes. <i>Journal of Physical Chemistry B</i> , 2008, 112, 9281-9288.	2.6	166
34	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.	3.3	162
35	N6-Deoxyadenosine Methylation in Mammalian Mitochondrial DNA. <i>Molecular Cell</i> , 2020, 78, 382-395.e8.	9.7	156
36	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.	10.0	139

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37	A metabolic labeling method detects m6A transcriptome-wide at single base resolution. <i>Nature Chemical Biology</i> , 2020, 16, 887-895.	8.0	133
38	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.	2.6	132
39	Novel <i>meso</i> -Polyarylamine-BODIPY Hybrids: Synthesis and Study of Their Optical Properties. <i>Journal of Organic Chemistry</i> , 2009, 74, 2053-2058.	3.2	126
40	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.	3.3	124
41	Direct Visualization of Surface-Assisted Two-Dimensional Diyne Polycyclotrimerization. <i>Journal of the American Chemical Society</i> , 2014, 136, 5567-5570.	13.7	123
42	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.	14.9	122
43	Deciphering mechanism of aggregation-induced emission (AIE): Is E-Z isomerisation involved in an AIE process?. <i>Chemical Science</i> , 2012, 3, 493-497.	7.4	122
44	Hyperbranched conjugated poly(tetraphenylethene): synthesis, aggregation-induced emission, fluorescent photopatterning, optical limiting and explosive detection. <i>Polymer Chemistry</i> , 2012, 3, 1481.	3.9	117
45	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.	7.6	113
46	A two-channel responsive fluorescent probe with AIE characteristics and its application for selective imaging of superoxide anions in living cells. <i>Chemical Communications</i> , 2017, 53, 1653-1656.	4.1	106
47	Stereoselective Synthesis, Efficient Light Emission, and High Bipolar Charge Mobility of Chiasmatic Luminogens. <i>Advanced Materials</i> , 2011, 23, 5430-5435.	21.0	105
48	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.	4.8	100
49	Disubstituted Polyacetylenes Containing Photopolymerizable Vinyl Groups and Polar Ester Functionality: A Polymer Synthesis, Aggregation-Enhanced Emission, and Fluorescent Pattern Formation. <i>Macromolecules</i> , 2007, 40, 3159-3166.	4.8	99
50	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.	4.8	97
51	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.	3.9	93
52	Characterization of eukaryotic DNA N6-methyladenine by a highly sensitive restriction enzyme-assisted sequencing. <i>Nature Communications</i> , 2016, 7, 11301.	12.8	93
53	Complexation-induced circular dichroism and circularly polarised luminescence of an aggregation-induced emission luminogen. <i>Journal of Materials Chemistry C</i> , 2014, 2, 78-83.	5.5	69
54	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.	4.8	63

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55	Covalent Immobilization of Aggregation-Induced Emission Luminogens in Silica Nanoparticles Through Click Reaction. <i>Small</i> , 2011, 7, 1448-1455.	10.0	59
56	<i>N</i> ⁶ -Allyl adenosine: A New Small Molecule for RNA Labeling Identified by Mutation Assay. <i>Journal of the American Chemical Society</i> , 2017, 139, 17213-17216.	13.7	59
57	Ferrocene-Functionalized Hyperbranched Polyphenylenes: Synthesis, Redox Activity, Light Refraction, Transition-Metal Complexation, and Precursors to Magnetic Ceramics. <i>Macromolecules</i> , 2010, 43, 680-690.	4.8	58
58	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.	5.5	58
59	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.	4.8	57
60	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.	3.6	56
61	Regioselective Alkyne Polyhydrosilylation: Synthesis and Photonic Properties of Poly(silylenevinylene)s. <i>Macromolecules</i> , 2011, 44, 5977-5986.	4.8	52
62	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
63	Key progresses of MOE key laboratory of macromolecular synthesis and functionalization in 2020. <i>Chinese Chemical Letters</i> , 2022, 33, 1650-1658.	9.0	47
64	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.	4.8	41
65	Hyperbranched Conjugated Polyelectrolyte for Dual-Modality Fluorescence and Magnetic Resonance Cancer Imaging. <i>Small</i> , 2012, 8, 3523-3530.	10.0	41
66	How do substituents affect silole emission?. <i>Journal of Materials Chemistry C</i> , 2013, 1, 5661.	5.5	40
67	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.	5.5	40
68	Specific Targeting, Imaging, and Ablation of Tumor-Associated Macrophages by Theranostic Mannose-AIEgen Conjugates. <i>Analytical Chemistry</i> , 2019, 91, 6836-6843.	6.5	35
69	Luminescent aggregates of a starburst silole-triphenylamine adduct for sensitive explosive detection. <i>Dyes and Pigments</i> , 2011, 91, 258-263.	3.7	34
70	Synthetic modified messenger RNA for therapeutic applications. <i>Acta Biomaterialia</i> , 2021, 131, 1-15.	8.3	34
71	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.	2.3	33
72	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.	5.8	33

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73	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.	4.1	31
74	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.	4.1	28
75	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.	4.8	24
76	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.	3.9	24
77	A unimolecular theranostic system with H ₂ O ₂ -specific response and AIE-activity for doxorubicin releasing and real-time tracking in living cells. <i>RSC Advances</i> , 2018, 8, 10975-10979.	3.6	24
78	ALKBH3-dependent m1A demethylation of Aurora A mRNA inhibits ciliogenesis. <i>Cell Discovery</i> , 2022, 8, 25.	6.7	20
79	Synthesis and Light-Emitting Properties of Disubstituted Polyacetylenes Carrying Chromophoric Naphthylethynylphenyl Pendants. <i>Journal of Physical Chemistry B</i> , 2008, 112, 11227-11235.	2.6	17
80	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.	7.4	17
81	Mapping messenger RNA methylations at single base resolution. <i>Current Opinion in Chemical Biology</i> , 2021, 63, 28-37.	6.1	17
82	Biochromic silole derivatives: a single dye for differentiation, quantitation and imaging of live/dead cells. <i>Materials Horizons</i> , 2018, 5, 969-978.	12.2	15
83	Synthesis and characterization of optically active star-shaped poly (N-phenylmaleimide)s with a calixarene core. <i>Polymer International</i> , 2007, 56, 796-802.	3.1	13
84	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.	2.3	10
85	The RNA binding protein FgRbp1 regulates specific pre-mRNA splicing via interacting with U2AF23 in <i>Fusarium</i> . <i>Nature Communications</i> , 2021, 12, 2661.	12.8	10
86	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
87	m6A-label-seq: A metabolic labeling protocol to detect transcriptome-wide mRNA N6-methyladenosine (m6A) at base resolution. <i>STAR Protocols</i> , 2022, 3, 101096.	1.2	9
88	Cobalt-Containing Hyperbranched Poly(silylenearylene)s. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2009, 19, 133-138.	3.7	8
89	Single Molecule's Conductance Depending On Its Orientation. <i>Journal of Physical Chemistry C</i> , 2009, 113, 26-30.	3.1	7
90	Two-Dimensional Hierarchical Supramolecular Assembly of a Silole Derivative and Surface-Assisted Chemical Transformations. <i>Journal of Physical Chemistry C</i> , 2015, 119, 3857-3863.	3.1	7

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91	Preparation of Human Nuclear RNA m ⁶ A Methyltransferases and Demethylases and Biochemical Characterization of Their Catalytic Activity. <i>Methods in Enzymology</i> , 2015, 560, 117-130.	1.0	7
92	Visualization and quantification of cellular RNA production and degradation using a combined fluorescence and mass spectrometry characterization assay. <i>Chemical Communications</i> , 2019, 55, 8321-8324.	4.1	7
93	Precise identification of an RNA methyltransferase's substrate modification site. <i>Chemical Communications</i> , 2021, 57, 2499-2502.	4.1	7
94	N ⁶ -methyladenosine modification-mediated mRNA metabolism is essential for human pancreatic lineage specification and islet organogenesis. <i>Nature Communications</i> , 2022, 13, .	12.8	7
95	Polyphenylsilole multilayers “an insight from X-ray electron spectroscopy and density functional theory. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 31117-31124.	2.8	5
96	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>)	0.0	0
97	A Mutation-Based Method for Pinpointing a DNA N ⁶ -Methyladenine Methyltransferase Modification Site at Single Base Resolution. <i>ChemBioChem</i> , 2021, 22, 1936-1939.	2.6	4
98	Targeted Manipulation of Cellular RNA m ⁶ A Methylation at the Single-Base Level. <i>ACS Chemical Biology</i> , 2022, 17, 854-863.	3.4	4
99	New Chromatin Run-On Reaction Enables Global Mapping of Active RNA Polymerase Locations in an Enrichment-free Manner. <i>ACS Chemical Biology</i> , 2022, 17, 768-775.	3.4	3
100	Carbazole-Functionalised Poly(1-phenyl-1-alkyne)s: Synthesis, Light Emission, and Fluorescent Photopatterning. <i>Australian Journal of Chemistry</i> , 2012, 65, 1228.	0.9	1
101	A multifunctional piperazine-modified tetraphenylethene derivative: Hazardous chemical detection and lysosome-targeted cell imaging. <i>Journal of Luminescence</i> , 2022, 250, 119068.	3.1	1
102	AIE Materials Towards Efficient Circularly Polarized Luminescence, Organic Lasing, and Superamplified Detection of Explosives. , 2013, , 107-129.		0
103	N ⁴ -allyldeoxycytidine: A New DNA Tag with Chemical Sequencing Power for Pinpointing Labelling Sites, Mapping Epigenetic Mark, and in situ Imaging. <i>ChemBioChem</i> , 2022, , .	2.6	0