

Bin Liu

List of Publications by Year in descending order

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53
papers

5,420
citations

279487

23
h-index

168136

53
g-index

53
all docs

53
docs citations

53
times ranked

5752
citing authors

#	ARTICLE	IF	CITATIONS
1	Specific light-up bioprobes based on AIEgen conjugates. <i>Chemical Society Reviews</i> , 2015, 44, 2798-2811.	18.7	674
2	Photosensitizers with Aggregation-Induced Emission: Materials and Biomedical Applications. <i>Advanced Materials</i> , 2018, 30, e1801350.	11.1	611
3	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
4	Aggregation-induced emission: fundamental understanding and future developments. <i>Materials Horizons</i> , 2019, 6, 428-433.	6.4	564
5	Tuning the singlet-triplet energy gap: a unique approach to efficient photosensitizers with aggregation-induced emission (AIE) characteristics. <i>Chemical Science</i> , 2015, 6, 5824-5830.	3.7	406
6	Specific Detection of Integrin $\alpha_3\beta_1$ by Light-Up Bioprobe with Aggregation-Induced Emission Characteristics. <i>Journal of the American Chemical Society</i> , 2012, 134, 9569-9572.	6.6	378
7	A Highly Efficient and Photostable Photosensitizer with Near-Infrared Aggregation-Induced Emission for Image-Guided Photodynamic Anticancer Therapy. <i>Advanced Materials</i> , 2017, 29, 1700548.	11.1	373
8	Bright and Photostable Organic Fluorescent Dots with Aggregation-Induced Emission Characteristics for Noninvasive Long-Term Cell Imaging. <i>Advanced Functional Materials</i> , 2014, 24, 635-643.	7.8	210
9	Targeted and image-guided photodynamic cancer therapy based on organic nanoparticles with aggregation-induced emission characteristics. <i>Chemical Communications</i> , 2014, 50, 8757.	2.2	185
10	A fluorescent light-up probe with AIE + ESIPT characteristics for specific detection of lysosomal esterase. <i>Journal of Materials Chemistry B</i> , 2014, 2, 3438-3442.	2.9	185
11	Membrane-Anchoring Photosensitizer with Aggregation-Induced Emission Characteristics for Combating Multidrug-Resistant Bacteria. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 632-636.	7.2	154
12	Rational Design of a Red-Emissive Fluorophore with AIE and ESIPT Characteristics and Its Application in Light-Up Sensing of Esterase. <i>Analytical Chemistry</i> , 2017, 89, 3162-3168.	3.2	143
13	A Molecular Brush Approach to Enhance Quantum Yield and Suppress Nonspecific Interactions of Conjugated Polyelectrolyte for Targeted Far-Red/Near-Infrared Fluorescence Cell Imaging. <i>Advanced Functional Materials</i> , 2010, 20, 2770-2777.	7.8	137
14	Multicolor monitoring of cellular organelles by single wavelength excitation to visualize the mitophagy process. <i>Chemical Science</i> , 2018, 9, 2756-2761.	3.7	92
15	The photochromism, light harvesting and self-assembly activity of a multi-function Schiff-base compound based on the AIE effect. <i>Journal of Materials Chemistry C</i> , 2018, 6, 4057-4064.	2.7	62
16	Naphthol-based fluorescent sensors for aluminium ion and application to bioimaging. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2016, 168, 98-103.	2.0	58
17	Aggregation-induced emission activity and further Cu ²⁺ -induced self-assembly process of two Schiff compounds. <i>Sensors and Actuators B: Chemical</i> , 2017, 246, 554-562.	4.0	50
18	Biocompatible Flavone-Based Fluorogenic Probes for Quick Wash-Free Mitochondrial Imaging in Living Cells. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 21638-21644.	4.0	40

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19	Novel CdS/MOF Cathodic Photoelectrochemical (PEC) Platform for the Detection of Doxorubicin Hydrochloride and Gentamicin Sulfate. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 57497-57504.	4.0	34
20	Probing chromium(III) from chromium(VI) in cells by a fluorescent sensor. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2016, 153, 505-509.	2.0	28
21	Aggregation and deaggregation of rhodamine fluorescent probe for sequential recognition of Hg(II) and Cys with green emission. <i>Sensors and Actuators B: Chemical</i> , 2016, 228, 94-100.	4.0	27
22	Dual sites fluorescence probe for H ₂ S and Hg ²⁺ with "AIE transformers" function. <i>Sensors and Actuators B: Chemical</i> , 2019, 296, 126670.	4.0	26
23	Near-infrared AIEgens for lipid droplets imaging in corpus adiposum or trachea of <i>Locusta migratoria</i> and its application in photodynamic therapy. <i>Sensors and Actuators B: Chemical</i> , 2020, 322, 128589.	4.0	26
24	Two colorimetric and ratiometric fluorescence probes for hydrogen sulfide based on AIE strategy of β -cyanostilbenes. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 199, 117-122.	2.0	24
25	Biomimetic Self-Assembly of Co ^{II} -Seamed Hexameric Metal-Organic Nanocapsules. <i>Journal of the American Chemical Society</i> , 2019, 141, 9151-9154.	6.6	22
26	A TICT-AIE based fluorescent probe for ultrafast response of hypochlorite in living cells and mouse. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021, 256, 119735.	2.0	21
27	Achieving highly sensitive detection of Cu ²⁺ based on AIE and FRET strategy in aqueous solution. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019, 211, 272-279.	2.0	20
28	Tunable NIR AIE-active optical materials for lipid droplet imaging in typical model organisms and photodynamic therapy. <i>Journal of Materials Chemistry B</i> , 2021, 9, 2417-2427.	2.9	20
29	Synthesis, characterization and properties of chromium(III) complex [Cr(SA)(en) ₂]Cl·2H ₂ O. <i>Journal of Inorganic Biochemistry</i> , 2006, 100, 1462-1469.	1.5	18
30	Salen and [Al(salen)(H ₂ O) ₂] ⁺ : The combination model of organic AIEgen and metal complex self-assembly. <i>Sensors and Actuators B: Chemical</i> , 2017, 252, 794-802.	4.0	18
31	Rational construction of AIEgens with wide color tunability and their specific lipid droplet imaging applications. <i>Journal of Materials Chemistry B</i> , 2020, 8, 9533-9543.	2.9	18
32	Assembly and disassembly activity of two AIEE model compounds and its potential application. <i>Talanta</i> , 2018, 184, 394-403.	2.9	17
33	Chemical properties and biotoxicity of several chromium picolinate derivatives. <i>Journal of Inorganic Biochemistry</i> , 2016, 164, 110-118.	1.5	16
34	To re-evaluate the emission mechanism, AIE activity of 5-azidofluorescein and its reaction with H ₂ S and NO. <i>Sensors and Actuators B: Chemical</i> , 2018, 256, 79-88.	4.0	15
35	Structure, photochemistry and magnetic properties of tetrahydrogenated Schiff base chromium(III) complexes. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 140, 437-443.	2.0	14
36	Dual sites fluorescence probe for hydrogen sulfide: AIEE activity and supramolecular assembly with β -cyclodextrin. <i>Sensors and Actuators B: Chemical</i> , 2019, 282, 743-749.	4.0	13

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37	Application of nanodiamonds in Cu(II)-based rhodamine B probes for NO detection and cell imaging. <i>Journal of Materials Chemistry B</i> , 2016, 4, 3358-3364.	2.9	12
38	Synthesis, structure, chemical and bioactivity behavior of eight chromium(III) picolinate derivatives Cr(R-pic) ₃ . <i>Inorganica Chimica Acta</i> , 2017, 466, 151-159.	1.2	12
39	Fluorometric probe for the lipase level: Design, mechanism and biological imaging application. <i>Talanta</i> , 2021, 225, 121948.	2.9	11
40	Effect of substituent groups (R= CH ₃ , Br and CF ₃) on the structure, stability and redox property of [Cr(R-pic) ₂ (H ₂ O) ₂] ⁺ NO ₃ ⁻ ·H ₂ O complexes. <i>Journal of Molecular Structure</i> , 2017, 1150, 307-315.	1.8	10
41	Fabricating a fluorescence resonance energy transfer system with AIE molecular for sensitive detection of Cu(II) ions. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 225, 117604.	2.0	10
42	Near-infrared dual-functional AIEgens for lipid droplets imaging in multispecies and photodynamic therapy. <i>Dyes and Pigments</i> , 2021, 185, 108884.	2.0	10
43	A simple strategy for constructing PET fluorescent probe and its application in hypochlorite detection. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021, 258, 119827.	2.0	9
44	Two novel Cr(III) complexes [Cr(SA) ₂ (en)]TBA and [Cr(SA)(en) ₂]Br: Synthesis, characterization and spectral studies. <i>Inorganic Chemistry Communication</i> , 2013, 30, 163-167.	1.8	8
45	Synthesis, structure, stability and DNA cleavage activities of three Cr(III) complexes with salicylate and ammonium ligands. <i>Inorganic Chemistry Communication</i> , 2015, 52, 27-30.	1.8	8
46	Effects of salicylate derivate on the competing reaction of chromium(III) complex [Cr(III)(R-SA)(en) ₂]Cl with apoovotransferrin. <i>Inorganic Chemistry Communication</i> , 2010, 13, 1249-1252.	1.8	5
47	Synthesis, biological activity and toxicity of chromium(III) metformin complex as potential insulin-mimetic agent in C57BL/6 mice. <i>Journal of Coordination Chemistry</i> , 2018, 71, 1526-1541.	0.8	5
48	Fabrication of CdS/C ₃ N ₅ photocatalyst for enhanced H ₂ production. <i>Composite Interfaces</i> , 2023, 30, 147-161.	1.3	5
49	A strategy to distinguish cancers from normal cells through lysosomal targeted double site fluorescent probe for lipase and hydrogen sulfide. <i>Dyes and Pigments</i> , 2022, 205, 110545.	2.0	5
50	A stable hydrazine click fluorescent probe based on photo switch. <i>Dyes and Pigments</i> , 2021, 186, 108983.	2.0	4
51	A near-infrared ratiometric fluorescent probe with large stokes shift for rapid detection of ClO ⁻ in living cells. <i>Journal of Molecular Structure</i> , 2022, 1267, 133570.	1.8	4
52	Probing Cr(III) from Cr(pic) ₃ derivatives in living cell by two rhodamine B-based AIEgens. <i>Inorganic Chemistry Communication</i> , 2021, 128, 108579.	1.8	3
53	Potential antidiabetic molecule involving a new chromium(III) complex of dipicolinic and metformin as a counter ion: Synthesis, structure, spectroscopy, and bioactivity in mice. <i>Arabian Journal of Chemistry</i> , 2021, 14, 103236.	2.3	1