Jianbo Liu

List of Publications by Year in Descending Order

113 papers	2,573 citations	30 h-index	44 g-index
115 ext. papers	3,089 ext. citations	7.2 avg, IF	5.16 L-index

#	Paper	IF	Citations
113	Acidic microenvironment triggered assembly of activatable three-arm aptamer nanoclaw for contrast-enhanced imaging and tumor growth inhibition .. *Theranostics*, **2022**, 12, 3474-3487	12.1	0
112	Coacervate microdroplet protocell-mediated gene transfection for nitric oxide production and induction of cell apoptosis. *Journal of Materials Chemistry B*, **2021**, 9, 9784-9793	7.3	1
111	Ratiometric Fluorescent DNA Nanostructure for Mitochondrial ATP Imaging in Living Cells Based on Hybridization Chain Reaction. *Analytical Chemistry*, **2021**, 93, 6715-6722	7.8	17
110	Butyrate can support PAOs but not GAOs in tropical climates. *Water Research*, **2021**, 193, 116884	12.5	7
109	Enhancing the Sensitivity of DNA and Aptamer Probes in the Dextran/PEG Aqueous Two-Phase System. *Analytical Chemistry*, **2021**, 93, 8577-8584	7.8	2
108	Photothermally Activated Coacervate Model Protocells as Signal Transducers Endow Mammalian Cells with Light Sensitivity. *Advanced Biology*, **2021**, 5, e2100695		1
107	Controlled dimerization of artificial membrane receptors for transmembrane signal transduction. *Chemical Science*, **2021**, 12, 8224-8230	9.4	3
106	An ion transport switch based on light-responsive conformation-dependent G-quadruplex transmembrane channels. *Chemical Communications*, **2021**, 57, 8214-8217	5.8	1
105	Giant Coacervate Vesicles As an Integrated Approach to Cytomimetic Modeling. *Journal of the American Chemical Society*, **2021**, 143, 2866-2874	16.4	25
104	Self-immobilization of coacervate droplets by enzyme-mediated hydrogelation. *Chemical Communications*, **2021**, 57, 5438-5441	5.8	3
103	Effective decolorization of anthraquinone dye reactive blue 19 using immobilized Bacillus sp. JF4 isolated by resuscitation-promoting factor strategy. *Water Science and Technology*, **2020**, 81, 1159-1169	2.2	20
102	Invasion and Defense Interactions between Enzyme-Active Liquid Coacervate Protocells and Living Cells. *Small*, **2020**, 16, e2002073	11	8
101	Lipophilic G-Quadruplex Isomers as Biomimetic Ion Channels for Conformation-Dependent Selective Transmembrane Transport. *Analytical Chemistry*, **2020**, 92, 10169-10176	7.8	5
100	Selection of Affinity Reagents to Neutralize the Hemolytic Toxicity of Melittin Based on a Self-Assembled Nanoparticle Library. *ACS Applied Materials & Interfaces*, **2020**, 12, 16040-16049	9.5	6
99	Recognition-Driven Remodeling of Dual-Split Aptamer Triggering In Situ Hybridization Chain Reaction for Activatable and Autonomous Identification of Cancer Cells. *Analytical Chemistry*, **2020**, 92, 10839-10846	7.8	15
98	Hydrogel-Immobilized Coacervate Droplets as Modular Microreactor Assemblies. *Angewandte Chemie - International Edition*, **2020**, 59, 6853-6859	16.4	25
97	Sensitive and specific detection of tumour cells based on a multivalent DNA nanocreeper and a multiplexed fluorescence supersandwich. *Chemical Communications*, **2020**, 56, 3693-3696	5.8	3

96	Hydrogel-Immobilized Coacervate Droplets as Modular Microreactor Assemblies. *Angewandte Chemie*, **2020**, 132, 6920-6926	3.6	
95	Innentitelbild: Hydrogel-Immobilized Coacervate Droplets as Modular Microreactor Assemblies (Angew. Chem. 17/2020). *Angewandte Chemie*, **2020**, 132, 6698-6698	3.6	
94	Pollutant removal from landfill leachate via two-stage anoxic/oxic combined membrane bioreactor: Insight in organic characteristics and predictive function analysis of nitrogen-removal bacteria. *Bioresource Technology*, **2020**, 317, 124037	11	7
93	Quorum quenching altered microbial diversity and activity of anaerobic membrane bioreactor (AnMBR) and enhanced methane generation. *Bioresource Technology*, **2020**, 315, 123862	11	17
92	Liposome-Boosted Peroxidase-Mimicking Nanozymes Breaking the pH Limit. *Chemistry - A European Journal*, **2020**, 26, 16659-16665	4.8	12
91	Enzyme-mediated nitric oxide production in vasoactive erythrocyte membrane-enclosed coacervate protocells. *Nature Chemistry*, **2020**, 12, 1165-1173	17.6	33
90	Construction of coacervate-in-coacervate multi-compartment protocells for spatial organization of enzymatic reactions. *Chemical Science*, **2020**, 11, 8617-8625	9.4	30
89	Mutual Interaction Models: Invasion and Defense Interactions between Enzyme-Active Liquid Coacervate Protocells and Living Cells (Small 29/2020). *Small*, **2020**, 16, 2070162	11	
88	Ion-mediated self-assembly of Cys-capped quantum dots for fluorescence detection of As(iii) in water. *Analytical Methods*, **2020**, 12, 4229-4234	3.2	2
87	Near-infrared photothermal release of hydrogen sulfide from nanocomposite hydrogels for anti-inflammation applications. *Chinese Chemical Letters*, **2020**, 31, 787-791	8.1	9
86	Single-stranded DNA designed lipophilic G-quadruplexes as transmembrane channels for switchable potassium transport. *Chemical Communications*, **2019**, 55, 12004-12007	5.8	8
85	A near-infrared light-responsive nanocomposite for photothermal release of HS and suppression of cell viability. *Journal of Materials Chemistry B*, **2019**, 7, 5992-5997	7.3	8
84	Recyclable magnetite-enhanced electromethanogenesis for biomethane production from wastewater. *Water Research*, **2019**, 166, 115095	12.5	25
83	A Simple, pH-Activatable Fluorescent Aptamer Probe with Ultralow Background for Bispecific Tumor Imaging. *Analytical Chemistry*, **2019**, 91, 9154-9160	7.8	16
82	DNA-Silver Nanocluster Binary Probes for Ratiometric Fluorescent Detection of HPV-related DNA. *Chemical Research in Chinese Universities*, **2019**, 35, 581-585	2.2	3
81	Biomimetic nanochannel membrane for cascade response of borate and cis-hydroxyl compounds: An IMP logic gate device. *Chinese Chemical Letters*, **2019**, 30, 1397-1400	8.1	5
80	Mitochondria targeted self-assembled ratiometric fluorescent nanoprobes for pH imaging in living cells. *Analytical Methods*, **2019**, 11, 2097-2104	3.2	6
79	DNA supersandwich assemblies as artificial receptors to mediate intracellular delivery of catalase for efficient ROS scavenging. *Chemical Communications*, **2019**, 55, 4242-4245	5.8	8

78	Quorum quenching in anaerobic membrane bioreactor for fouling control. *Water Research*, **2019**, 156, 159-167	12.5	55
77	Ratiometric determination of human papillomavirus-16 DNA by using fluorescent DNA-templated silver nanoclusters and hairpin-blocked DNAzyme-assisted cascade amplification. *Mikrochimica Acta* , **2019**, 186, 613	5.8	14
76	Uricase-containing coacervate microdroplets as enzyme active membrane-free protocells for detoxification of uric acid in serum. *Chemical Communications*, **2019**, 55, 13880-13883	5.8	11
75	Hydrogen sulfide formation control and microbial competition in batch anaerobic digestion of slaughterhouse wastewater sludge: Effect of initial sludge pH. *Bioresource Technology*, **2018**, 259, 67-74	11	62
74	Controlled formation of Ag2S/Ag Janus nanoparticles using alkylamine as reductant surfactants. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2018**, 544, 111-117	5.1	10
73	Influence of reflux ratio on two-stage anoxic/oxic with MBR for leachate treatment: Performance and microbial community structure. *Bioresource Technology*, **2018**, 256, 69-76	11	33
72	Enhanced Imaging of Specific Cell-Surface Glycosylation Based on Multi-FRET. *Analytical Chemistry*, **2018**, 90, 6131-6137	7.8	26
71	A simple and sensitive assay for apurinic/apyrimidinic endonuclease 1 activity based on host-guest interaction of □cyclodextrin polymer and pyrene. *Chinese Chemical Letters*, **2018**, 29, 973-976	8.1	3
70	Comparison of various pretreatments for ethanol production enhancement from solid residue after rumen fluid digestion of rice straw. *Bioresource Technology*, **2018**, 247, 147-156	11	35
69	Selection of Aptamers for Hydrophobic Drug Docetaxel To Improve Its Solubility. *ACS Applied Bio Materials*, **2018**, 1, 168-174	4.1	3
68	Flexible Assembly of an Enzyme Cascade on a DNA Triangle Prism Nanostructure for the Controlled Biomimetic Generation of Nitric Oxide. *ChemBioChem*, **2018**, 19, 2099-2106	3.8	7
67	Self-Assembled Supramolecular Nanoparticles for Targeted Delivery and Combination Chemotherapy. *ChemMedChem*, **2018**, 13, 2037-2044	3.7	14
66	A DNA nanowire based localized catalytic hairpin assembly reaction for microRNA imaging in live cells. *Chemical Science*, **2018**, 9, 7802-7808	9.4	85
65	Ultra-pH-responsive split i-motif based aptamer anchoring strategy for specific activatable imaging of acidic tumor microenvironment. *Chemical Communications*, **2018**, 54, 10288-10291	5.8	22
64	Denitrification of landfill leachate under different hydraulic retention time in a two-stage anoxic/oxic combined membrane bioreactor process: Performances and bacterial community. *Bioresource Technology*, **2018**, 250, 110-116	11	61
63	Integration of cell-free protein synthesis and purification in one microfluidic chip for on-demand production of recombinant protein. *Biomicrofluidics*, **2018**, 12, 054102	3.2	6
62	Detection of Nucleic Acids in Complex Samples via Magnetic Microbead-Assisted Catalyzed Hairpin Assembly and "DD-A" FRET. *Analytical Chemistry*, **2018**, 90, 7164-7170	7.8	33
61	Protein- driven disassembly of surfactant- polyelectrolyte nanomicelles: Modulation of quantum dot/fluorochrome FRET for pattern sensing. *Sensors and Actuators B: Chemical*, **2018**, 272, 393-399	8.5	5

60	A light-up fluorescence assay for tumor cell detection based on bifunctional split aptamers. *Analyst, The*, **2018**, 143, 3579-3585	5	15
59	Development of Dual-Aptamers for Constructing Sandwich-Type Pancreatic Polypeptide Assay. *ACS Sensors*, **2017**, 2, 308-315	9.2	18
58	Design of a Modular DNA Triangular-Prism Sensor Enabling Ratiometric and Multiplexed Biomolecule Detection on a Single Microbead. *Analytical Chemistry*, **2017**, 89, 3590-3596	7.8	13
57	Self-assembled DNA nanocentipedes as multivalent vehicles for enhanced delivery of CpG oligonucleotides. *Chemical Communications*, **2017**, 53, 5565-5568	5.8	28
56	Scallop-Inspired DNA Nanomachine: A Ratiometric Nanothermometer for Intracellular Temperature Sensing. *Analytical Chemistry*, **2017**, 89, 12115-12122	7.8	39
55	Temperature-responsive split aptamers coupled with polymerase chain reaction for label-free and sensitive detection of cancer cells. *Chemical Communications*, **2017**, 53, 11889-11892	5.8	20
54	Self-assembled DNA nanowires as quantitative dual-drug nanocarriers for antitumor chemophotodynamic combination therapy. *Journal of Materials Chemistry B*, **2017**, 5, 7529-7537	7.3	20
53	High Signal-to-Background Ratio Detection of Cancer Cells with Activatable Strategy Based on Target-Induced Self-Assembly of Split Aptamers. *Analytical Chemistry*, **2017**, 89, 9347-9353	7.8	22
52	Two-stage anoxic/oxic combined membrane bioreactor system for landfill leachate treatment: Pollutant removal performances and microbial community. *Bioresource Technology*, **2017**, 243, 738-746	11	59
51	Application of Nucleic Acid Aptamers in Polypeptides Researches. *Chinese Journal of Analytical Chemistry*, **2017**, 45, 1795-1803	1.6	1
50	Use of Ecyclodextrin-tethered cationic polymer based fluorescence enhancement of pyrene and hybridization chain reaction for the enzyme-free amplified detection of DNA. *Analyst, The*, **2016**, 142, 224-228	5	17
49	Self-Assembled DNA Nanocentipede as Multivalent Drug Carrier for Targeted Delivery. *ACS Applied Materials & Interfaces*, **2016**, 8, 25733-25740	9.5	54
48	Enhancing Sewage Sludge Dewaterability by a Skeleton Builder: Biochar Produced from Sludge Cake Conditioned with Rice Husk Flour and FeCl3. *ACS Sustainable Chemistry and Engineering*, **2016**, 4, 5711-5717	8.3	31
47	Red blood cell membrane-mediated fusion of hydrophobic quantum dots with living cell membranes for cell imaging. *Journal of Materials Chemistry B*, **2016**, 4, 4191-4197	7.3	18
46	Programmable Self-Assembly of DNA-Protein Hybrid Hydrogel for Enzyme Encapsulation with Enhanced Biological Stability. *Biomacromolecules*, **2016**, 17, 1543-50	6.9	35
45	Intelligent Nucleic Acid Functionalized Dual-Responsive Gold Nanoflare: Logic-Gate Nanodevice Visualized by Single-Nanoparticle Imaging. *ChemistrySelect*, **2016**, 1, 347-353	1.8	8
44	Possibility of sludge conditioning and dewatering with rice husk biochar modified by ferric chloride. *Bioresource Technology*, **2016**, 205, 258-63	11	59
43	Dopamine modulated ionic permeability in mesoporous silica sphere based biomimetic compartment. *Colloids and Surfaces B: Biointerfaces*, **2016**, 142, 266-271	6	1

42	Amplified fluorescence detection of adenosine via catalyzed hairpin assembly and host-guest interactions between Ecyclodextrin polymer and pyrene. *Analyst, The*, **2016**, 141, 2502-7	5	18
41	Steric hindrance regulated supramolecular assembly between Ecyclodextrin polymer and pyrene for alkaline phosphatase fluorescent sensing. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2016**, 156, 131-7	4.4	10
40	Metallurgical leaching of metal powder for facile and generalized synthesis of metal sulfide nanocrystals. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2016**, 497, 344-351	5.1	5
39	Biomimetic synthesis of highly biocompatible gold nanoparticles with amino acid-dithiocarbamate as a precursor for SERS imaging. *Nanotechnology*, **2016**, 27, 105603	3.4	7
38	Quantum dot/methylene blue FRET mediated NIR fluorescent nanomicelles with large Stokes shift for bioimaging. *Chemical Communications*, **2015**, 51, 14357-60	5.8	21
37	A recognition-before-labeling strategy for sensitive detection of lung cancer cells with a quantum dot-aptamer complex. *Analyst, The*, **2015**, 140, 6100-7	5	18
36	Amplified fluorescence detection of DNA based on catalyzed dynamic assembly and host-guest interaction between Ecyclodextrin polymer and pyrene. *Talanta*, **2015**, 144, 529-34	6.2	11
35	A sensitive detection of T4 polynucleotide kinase activity based on Ecyclodextrin polymer enhanced fluorescence combined with an exonuclease reaction. *Chemical Communications*, **2015**, 51, 1815-8	5.8	38
34	Phosphate modulated permeability of mesoporous silica spheres: a biomimetic ion channel decorated compartment model. *Journal of Materials Chemistry B*, **2015**, 3, 323-329	7.3	4
33	Colorimetric detection of mercury ion based on unmodified gold nanoparticles and target-triggered hybridization chain reaction amplification. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2015**, 136 Pt B, 283-7	4.4	35
32	Tuning transport selectivity of ionic species by phosphoric acid gradient in positively charged nanochannel membranes. *Analytical Chemistry*, **2015**, 87, 1544-51	7.8	13
31	Exciton energy transfer-based quantum dot fluorescence sensing array: "chemical noses" for discrimination of different nucleobases. *Analytical Chemistry*, **2015**, 87, 876-83	7.8	36
30	A multiple amplification strategy for nucleic acid detection based on host-guest interaction between the Ecyclodextrin polymer and pyrene. *Analyst, The*, **2015**, 140, 2016-22	5	15
29	Competitive host-guest interaction between Ecyclodextrin polymer and pyrene-labeled probes for fluorescence analyses. *Analytical Chemistry*, **2015**, 87, 2665-71	7.8	43
28	Self-assembled supramolecular nanoprobes for ratiometric fluorescence measurement of intracellular pH values. *Analytical Chemistry*, **2015**, 87, 2459-65	7.8	37
27	Label-free and non-enzymatic detection of DNA based on hybridization chain reaction amplification and dsDNA-templated copper nanoparticles. *Analytica Chimica Acta*, **2014**, 827, 74-9	6.6	49
26	Visual and portable strategy for copper(II) detection based on a striplike poly(thymine)-caged and microwell-printed hydrogel. *Analytical Chemistry*, **2014**, 86, 11263-8	7.8	65
25	Single-walled carbon nanotubes (SWCNTs)-assisted cell-systematic evolution of ligands by exponential enrichment (cell-SELEX) for improving screening efficiency. *Analytical Chemistry*, **2014**, 86, 9466-72	7.8	22

24	Anomalous effects of water flow through charged nanochannel membranes. *RSC Advances*, **2014**, 4, 26729-26737	3.7	11
23	A self-assembled conformational switch: a host-guest stabilized triple stem molecular beacon via a photoactivated and thermal regeneration mode. *Chemical Communications*, **2014**, 50, 7803-5	5.8	5
22	A novel fluorescent detection for PDGF-BB based on dsDNA-templated copper nanoparticles. *Chinese Chemical Letters*, **2014**, 25, 9-14	8.1	24
21	Sensitive detection of DNA methyltransferase activity based on rolling circle amplification technology. *Chinese Chemical Letters*, **2014**, 25, 1047-1051	8.1	15
20	Design and bioanalytical applications of DNA hairpin-based fluorescent probes. *TrAC - Trends in Analytical Chemistry*, **2014**, 53, 11-20	14.6	33
19	A facile approach toward multicolor polymers: Supramolecular self-assembly via host–guest interaction. *Chinese Chemical Letters*, **2014**, 25, 1318-1322	8.1	2
18	Aptamer-mediated indirect quantum dot labeling and fluorescent imaging of target proteins in living cells. *Nanotechnology*, **2014**, 25, 505502	3.4	12
17	Enzyme-free colorimetric detection of DNA by using gold nanoparticles and hybridization chain reaction amplification. *Analytical Chemistry*, **2013**, 85, 7689-95	7.8	264
16	Solid-phase single molecule biosensing using dual-color colocalization of fluorescent quantum dot nanoprobes. *Nanoscale*, **2013**, 5, 11257-64	7.7	14
15	Exciton energy transfer-based fluorescent sensing through aptamer-programmed self-assembly of quantum dots. *Analytical Chemistry*, **2013**, 85, 11121-8	7.8	46
14	pH and ion strength modulated ionic species loading in mesoporous silica nanoparticles. *Nanotechnology*, **2013**, 24, 415501	3.4	11
13	Use of mercaptophenylboronic acid functionalized gold nanoparticles in a sensitive and selective dynamic light scattering assay for glucose detection in serum. *Analyst, The*, **2013**, 138, 5146-50	5	26
12	Recent advances in fluorescent nucleic acid probes for living cell studies. *Analyst, The*, **2013**, 138, 62-71	5	55
11	Using personal uric acid meter and enzyme-DNA conjugate for portable and quantitative DNA detection. *Sensors and Actuators B: Chemical*, **2013**, 186, 515-520	8.5	7
10	Combining physical embedding and covalent bonding for stable encapsulation of quantum dots into agarose hydrogels. *Journal of Materials Chemistry*, **2012**, 22, 495-501		22
9	Single nanoparticle imaging and characterization of different phospholipid-encapsulated quantum dot micelles. *Langmuir*, **2012**, 28, 10602-9	4	20
8	G-quadruplex fluorescence quenching ability: a simple and efficient strategy to design a single-labeled DNA probe. *Analytical Methods*, **2012**, 4, 895	3.2	19
7	Aggregation control of quantum dots through ion-mediated hydrogen bonding shielding. *ACS Nano* , **2012**, 6, 4973-83	16.7	36

6	A switchable fluorescent quantum dot probe based on aggregation/disaggregation mechanism. *Chemical Communications*, **2011**, 47, 935-7	5.8	88
5	Fluorescent nanoparticles for chemical and biological sensing. *Science China Chemistry*, **2011**, 54, 1157-1176	7.9	37
4	Chemical etching with tetrafluoroborate: a facile method for resizing of CdTe nanocrystals under mild conditions. *Chemical Communications*, **2009**, 6080-2	5.8	19
3	Real-time imaging of protein internalization using aptamer conjugates. *Analytical Chemistry*, **2008**, 80, 5002-8	7.8	34
2	Immunofluorescent labeling of cancer cells with quantum dots synthesized in aqueous solution. *Analytical Biochemistry*, **2006**, 354, 169-74	3.1	46
1	Preparation of luminescent CdTe quantum dots doped core-shell nanoparticles and their application in cell recognition. *Science Bulletin*, **2005**, 50, 1703		5