

# Xia Chu

## List of Publications by Year in descending order

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74  
papers

4,600  
citations

145106

33  
h-index

111975

67  
g-index

75  
all docs

75  
docs citations

75  
times ranked

6564  
citing authors

#	ARTICLE	IF	CITATIONS
1	Spatiotemporally Resolved Protein Detection in Live Cells Using Nanopore Biosensors. ACS Nano, 2022, 16, 5752-5763.	7.3	15
2	Biomaterialized Zeolitic Imidazolate Framework-8 Nanoparticles Enable Polymerase-Driven DNA Biocomputing for Reliable Cell Identification. Analytical Chemistry, 2022, 94, 4794-4802.	3.2	14
3	Clicking of organelle-enriched probes for fluorogenic imaging of autophagic and endocytic fluxes. Chemical Science, 2021, 12, 5834-5842.	3.7	20
4	A CHA-based DNA stochastic walker that traverses on cell membranes. Nanoscale, 2021, 13, 1596-1599.	2.8	8
5	mRNA-Activated Multifunctional DNAzyme Nanotweezer for Intracellular mRNA Sensing and Gene Therapy. ACS Applied Materials & Interfaces, 2021, 13, 8015-8025.	4.0	30
6	Erythrocyte-Membrane-Enveloped Biomaterialized Metal-Organic Framework Nanoparticles Enable Intravenous Glucose-Responsive Insulin Delivery. ACS Applied Materials & Interfaces, 2021, 13, 19648-19659.	4.0	24
7	Repaired and Activated DNAzyme Enables the Monitoring of DNA Alkylation Repair in Live Cells. Angewandte Chemie, 2021, 133, 20042-20049.	1.6	6
8	Repaired and Activated DNAzyme Enables the Monitoring of DNA Alkylation Repair in Live Cells. Angewandte Chemie - International Edition, 2021, 60, 19889-19896.	7.2	33
9	Genetically Encoded Sensor Enables Endogenous RNA Imaging with Conformation-Switching Induced Fluorogenic Proteins. Journal of the American Chemical Society, 2021, 143, 14394-14401.	6.6	20
10	Biomaterialized zeolitic imidazolate framework-8 nanoparticles enable polymerase/endonuclease synergetic amplification reaction in living cells for sensitive microRNA imaging. Chemical Communications, 2021, 57, 8472-8475.	2.2	7
11	Metal-Organic Framework Nanoparticles Power DNAzyme Logic Circuits for Aberrant MicroRNA Imaging. Analytical Chemistry, 2021, 93, 14675-14684.	3.2	35
12	Cobalt Oxyhydroxide-prompted Synthesis of Fluorescent Polydopamine Nanoparticles for Glutathione Detection. Analytical Sciences, 2020, 36, 347-352.	0.8	2
13	An RNase H-powered DNA walking machine for sensitive detection of RNase H and the screening of related inhibitors. Nanoscale, 2020, 12, 1673-1679.	2.8	13
14	An enzyme-initiated DNAzyme motor for RNase H activity imaging in living cell. Chemical Communications, 2020, 56, 639-642.	2.2	24
15	Aptamer-Functionalized DNA Origami for Targeted Codelivery of Antisense Oligonucleotides and Doxorubicin to Enhance Therapy in Drug-Resistant Cancer Cells. ACS Applied Materials & Interfaces, 2020, 12, 400-409.	4.0	99
16	Activatable CRISPR Transcriptional Circuits Generate Functional RNA for mRNA Sensing and Silencing. Angewandte Chemie, 2020, 132, 18758-18763.	1.6	2
17	Biomaterialized metal-organic framework nanoparticles enable a primer exchange reaction-based DNA machine to work in living cells for imaging and gene therapy. Chemical Science, 2020, 11, 7092-7101.	3.7	69
18	Improving resolving ability of expansion microscopy by varying crosslinker concentration. Chemical Communications, 2020, 56, 4176-4179.	2.2	5

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19	Activatable CRISPR Transcriptional Circuits Generate Functional RNA for mRNA Sensing and Silencing. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 18599-18604.	7.2	26
20	Engineering a Biodegradable Nanocarrier for Enhancing the Response of T98G Cells to Temozolomide. <i>ACS Applied Bio Materials</i> , 2020, 3, 3337-3344.	2.3	5
21	An intelligent nanodevice based on the synergistic effect of telomerase-triggered photodynamic therapy and gene-silencing for precise cancer cell therapy. <i>Nanoscale</i> , 2020, 12, 10380-10389.	2.8	19
22	A photocontrolled and self-powered bipedal DNA walking machine for intracellular microRNA imaging. <i>Chemical Communications</i> , 2020, 56, 3496-3499.	2.2	24
23	Molecular Switching of a Self-Assembled 3D DNA Nanomachine for Spatiotemporal pH Mapping in Living Cells. <i>Analytical Chemistry</i> , 2019, 91, 10366-10370.	3.2	28
24	Biomaterialized Metal-Organic Framework Nanoparticles Enable Enzymatic Rolling Circle Amplification in Living Cells for Ultrasensitive MicroRNA Imaging. <i>Analytical Chemistry</i> , 2019, 91, 9049-9057.	3.2	85
25	A microRNA-triggered self-powered DNAzyme walker operating in living cells. <i>Biosensors and Bioelectronics</i> , 2019, 136, 31-37.	5.3	63
26	Target-assisted self-cleavage DNAzyme probes for multicolor simultaneous imaging of tumor-related microRNAs with signal amplification. <i>Chemical Communications</i> , 2019, 55, 3278-3281.	2.2	22
27	Sensitive fluorescence sensing of T4 polynucleotide kinase activity and inhibition based on DNA/polydopamine nanospheres platform. <i>Talanta</i> , 2018, 180, 271-276.	2.9	23
28	Novel Sensitive Fluorometric Determination of Exonuclease I Using Polydopamine Nanospheres. <i>Analytical Letters</i> , 2018, 51, 998-1012.	1.0	3
29	A graphene oxide nanosensor enables the co-delivery of aptamer and peptide probes for fluorescence imaging of a cascade reaction in apoptotic signaling. <i>Analyst</i> , 2018, 143, 208-214.	1.7	9
30	2D g-C <sub>3</sub> N <sub>4</sub> /MnO <sub>2</sub> nanocomposite for sensitive and rapid turn-on fluorescence detection of H <sub>2</sub> O <sub>2</sub> and glucose. <i>Analytical Methods</i> , 2018, 10, 5084-5090.	1.3	19
31	Core-Shell HA-AuNPs@SiNPs Nanoprobe for Sensitive Fluorescence Hyaluronidase Detection and Cell Imaging. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 16555-16562.	3.2	30
32	In Situ Synthesis of Ultrathin ZIF-8 Film-Coated MSNs for Codelivering Bcl 2 siRNA and Doxorubicin to Enhance Chemotherapeutic Efficacy in Drug-Resistant Cancer Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 33070-33077.	4.0	82
33	Biomaterialized Metal-Organic Framework Nanoparticles Enable Intracellular Delivery and Endo-Lysosomal Release of Native Active Proteins. <i>Journal of the American Chemical Society</i> , 2018, 140, 9912-9920.	6.6	348
34	Nanoscale Zeolitic Imidazolate Framework-8 for Ratiometric Fluorescence Imaging of MicroRNA in Living Cells. <i>Analytical Chemistry</i> , 2017, 89, 12351-12359.	3.2	122
35	CoOOH-induced synthesis of fluorescent polydopamine nanoparticles for the detection of ascorbic acid. <i>Analytical Methods</i> , 2017, 9, 5518-5524.	1.3	28
36	Core-Shell Multifunctional Nanoplatform for Intracellular Tumor-Related mRNAs Imaging and Near-Infrared Light Triggered Photodynamic/Photothermal Synergistic Therapy. <i>Analytical Chemistry</i> , 2017, 89, 10321-10328.	3.2	63

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37	Enzyme-free, signal-amplified nucleic acid circuits for biosensing and bioimaging analysis. <i>Analyst, The</i> , 2017, 142, 3048-3061.	1.7	42
38	MnO <sub>2</sub> Nanosheet-based Fluorescence Sensing Platform for Sensitive Detection of Endonuclease. <i>Analytical Sciences</i> , 2017, 33, 783-788.	0.8	13
39	A Novel Biosensor Based on Terminal Protection and Fluorescent Copper Nanoparticles for Detecting Potassium Ion. <i>Analytical Sciences</i> , 2017, 33, 1369-1374.	0.8	4
40	Endonuclease IV cleaves apurinic/aprimidinic sites in single-stranded DNA and its application for biosensing. <i>Analyst, The</i> , 2016, 141, 4373-4380.	1.7	8
41	An aptasensor based on cobalt oxyhydroxide nanosheets for the detection of thrombin. <i>Analytical Methods</i> , 2016, 8, 7199-7203.	1.3	16
42	MnO <sub>2</sub> -induced synthesis of fluorescent polydopamine nanoparticles for reduced glutathione sensing in human whole blood. <i>Nanoscale</i> , 2016, 8, 15604-15610.	2.8	87
43	“Light-up” Sensing of human 8-oxoguanine DNA glycosylase activity by target-induced autocatalytic DNAzyme-generated rolling circle amplification. <i>Biosensors and Bioelectronics</i> , 2016, 79, 679-684.	5.3	35
44	Fabrication of a LRET-based upconverting hybrid nanocomposite for turn-on sensing of H <sub>2</sub> O <sub>2</sub> and glucose. <i>Nanoscale</i> , 2016, 8, 8939-8946.	2.8	54
45	A cobalt oxyhydroxide nanoflake-based nanoprobe for the sensitive fluorescence detection of T4 polynucleotide kinase activity and inhibition. <i>Nanoscale</i> , 2016, 8, 8202-8209.	2.8	71
46	Phosphorylation-induced formation of a cytochrome c-peptide complex: a novel fluorescent sensing platform for protein kinase assay. <i>Chemical Communications</i> , 2016, 52, 776-779.	2.2	11
47	Structure-Switching Aptamer Triggering Hybridization Chain Reaction on the Cell Surface for Activatable Theranostics. <i>Analytical Chemistry</i> , 2015, 87, 6470-6474.	3.2	108
48	Fluorescence Activation Imaging of Cytochrome c Released from Mitochondria Using Aptameric Nanosensor. <i>Journal of the American Chemical Society</i> , 2015, 137, 982-989.	6.6	163
49	A turn-on upconversion fluorescence resonance energy transfer biosensor for ultrasensitive endonuclease detection. <i>Analytical Methods</i> , 2015, 7, 7474-7479.	1.3	11
50	A cobalt oxyhydroxide-modified upconversion nanosystem for sensitive fluorescence sensing of ascorbic acid in human plasma. <i>Nanoscale</i> , 2015, 7, 13951-13957.	2.8	73
51	MnO <sub>2</sub> -Nanosheet-Modified Upconversion Nanosystem for Sensitive Turn-On Fluorescence Detection of H <sub>2</sub> O <sub>2</sub> and Glucose in Blood. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 10548-10555.	4.0	315
52	DNA-functionalized upconversion nanoparticles as biosensors for rapid, sensitive, and selective detection of Hg <sup>2+</sup> in complex matrices. <i>Analyst, The</i> , 2015, 140, 4987-4990.	1.7	34
53	A new label-free and turn-on fluorescence probe for hydrogen peroxide and glucose detection based on DNA-silver nanoclusters. <i>Analytical Methods</i> , 2015, 7, 7989-7994.	1.3	12
54	A dual-amplification fluorescent sensing platform for ultrasensitive assay of nuclease and ATP based on rolling circle replication and exonuclease III-aided recycling. <i>RSC Advances</i> , 2015, 5, 75055-75061.	1.7	7

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55	A new label-free and turn-on strategy for endonuclease detection using a DNA-silver nanocluster probe. <i>Talanta</i> , 2015, 131, 116-120.	2.9	49
56	Nanomaterial-based fluorescent probes for live-cell imaging. <i>TrAC - Trends in Analytical Chemistry</i> , 2014, 58, 130-144.	5.8	54
57	A novel electrochemical immunosensor based on dual signal amplification of gold nanoparticles and telomerase extension reaction. <i>Analytical Methods</i> , 2014, 6, 2221-2226.	1.3	7
58	A novel aptameric nanobiosensor based on the self-assembled DNA-MoS <sub>2</sub> nanosheet architecture for biomolecule detection. <i>Journal of Materials Chemistry B</i> , 2014, 2, 625-628.	2.9	149
59	Upconversion fluorescence resonance energy transfer biosensor for sensitive detection of human immunodeficiency virus antibodies in human serum. <i>Chemical Communications</i> , 2014, 50, 4759-4762.	2.2	79
60	Amplified fluorescence detection of T4 polynucleotide kinase activity and inhibition via a coupled exonuclease reaction and exonuclease III-aided trigger DNA recycling. <i>Analytical Methods</i> , 2014, 6, 6009.	1.3	15
61	A novel graphene oxide based fluorescent nanosensing strategy with hybridization chain reaction signal amplification for highly sensitive biothiol detection. <i>Chemical Communications</i> , 2014, 50, 11879-11882.	2.2	49
62	Phospholipid-Modified Upconversion Nanoprobe for Ratiometric Fluorescence Detection and Imaging of Phospholipase D in Cell Lysate and in Living Cells. <i>Analytical Chemistry</i> , 2014, 86, 7119-7127.	3.2	90
63	A Highly Sensitive Target-Primed Rolling Circle Amplification (TPRCA) Method for Fluorescent <i>In Situ</i> Hybridization Detection of MicroRNA in Tumor Cells. <i>Analytical Chemistry</i> , 2014, 86, 1808-1815.	3.2	132
64	Double-strand DNA-templated synthesis of copper nanoclusters as novel fluorescence probe for label-free detection of biothiols. <i>Analytical Methods</i> , 2013, 5, 3577.	1.3	62
65	A Dual-Emission Fluorescent Nanocomplex of Gold-Cluster-Decorated Silica Particles for Live Cell Imaging of Highly Reactive Oxygen Species. <i>Journal of the American Chemical Society</i> , 2013, 135, 11595-11602.	6.6	280
66	A sensitive fluorescence strategy for telomerase detection in cancer cells based on T7 exonuclease-assisted target recycling amplification. <i>Chemical Communications</i> , 2012, 48, 5916.	2.2	68
67	A novel biosensing strategy for screening G-quadruplex ligands based on graphene oxide sheets. <i>Biosensors and Bioelectronics</i> , 2012, 34, 88-93.	5.3	49
68	Graphene Oxide-Peptide Conjugate as an Intracellular Protease Sensor for Caspase-3 Activation Imaging in Live Cells. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 7065-7069.	7.2	305
69	Rolling Circle Amplification Combined with Gold Nanoparticle Aggregates for Highly Sensitive Identification of Single-Nucleotide Polymorphisms. <i>Analytical Chemistry</i> , 2010, 82, 2811-2816.	3.2	189
70	DNA Encapsulating Liposome Based Rolling Circle Amplification Immunoassay as a Versatile Platform for Ultrasensitive Detection of Protein. <i>Analytical Chemistry</i> , 2009, 81, 9664-9673.	3.2	71
71	Electrochemical Detection of <i>Schistosoma Japonicum</i> Antibody Using Biocatalytic Deposition. <i>Analytical Letters</i> , 2008, 41, 2237-2250.	1.0	1
72	Amperometric glucose biosensor based on electrodeposition of platinum nanoparticles onto covalently immobilized carbon nanotube electrode. <i>Talanta</i> , 2007, 71, 2040-2047.	2.9	208

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73	Aptamer-Based Rolling Circle Amplification: A Platform for Electrochemical Detection of Protein. Analytical Chemistry, 2007, 79, 7492-7500.	3.2	228
74	Non-linear discriminant feature extraction using generalized back-propagation network. Journal of Chemometrics, 1996, 10, 281-294.	0.7	7