

# Jianguo Xu

## List of Publications by Year in descending order

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Version: 2024-02-01

71  
papers

1,278  
citations

361045

20  
h-index

433756

31  
g-index

71  
all docs

71  
docs citations

71  
times ranked

1245  
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent progress of personal glucose meters integrated methods in food safety hazards detection. <i>Critical Reviews in Food Science and Nutrition</i> , 2022, 62, 7413-7426.	5.4	13
2	Facile design of multifunction-integrated linear oligonucleotide probe with multiplex amplification effect for label-free and highly sensitive GMO biosensing. <i>Talanta</i> , 2022, 236, 122821.	2.9	4
3	Simultaneous and accurate screening of multiple genetically modified organism (GMO) components in food on the same test line of SERS-integrated lateral flow strip. <i>Food Chemistry</i> , 2022, 366, 130595.	4.2	11
4	Performance improved fluorescence polarization for easy and accurate authentication of chicken adulteration. <i>Food Control</i> , 2022, 133, 108604.	2.8	2
5	Rapid and simultaneous visual screening of SARS-CoV-2 and influenza viruses with customized isothermal amplification integrated lateral flow strip. <i>Biosensors and Bioelectronics</i> , 2022, 197, 113771.	5.3	22
6	Continual and accurate home monitoring of uric acid in urine samples with uricase-packaged nanoflowers assisted portable electrochemical uricometer. <i>Biosensors and Bioelectronics</i> , 2022, 198, 113804.	5.3	12
7	Synergetic dual-toehold mediated controllable transcription amplification for detecting lung cancer-related circulating miRNAs in blood. <i>Sensors and Actuators B: Chemical</i> , 2022, 354, 131244.	4.0	1
8	Rapid and direct concentration range judgment of lamotrigine in plasma by the multi test lines with different detection limits on the same lateral flow strip. <i>Analytica Chimica Acta</i> , 2022, 1192, 339347.	2.6	3
9	Triggering Isothermal Circular Amplification-Based Tuning of Rigorous Fluorescence Quenching into Complete Restoration on a Multivalent Aptamer Probe Enables Ultrasensitive Detection of <i>Salmonella</i> . <i>Analytical Chemistry</i> , 2022, 94, 1357-1364.	3.2	22
10	Engineered G-Quadruplex-Embedded Self-Quenching Probes Regulate Single Probe-Based Multiplex Isothermal Amplification to Light Road Lamp Probes for Sensitized Determination of microRNAs. <i>Analytical Chemistry</i> , 2022, 94, 4437-4445.	3.2	18
11	Stepwise tuning of a molecular beacon coupled Y probe regulates ternary DNA nanomachine-based microRNA determination. <i>Sensors and Actuators B: Chemical</i> , 2022, 363, 131858.	4.0	3
12	Rational incorporating of loop-mediated isothermal amplification with fluorescence anisotropy for rapid, sensitive and on-site identification of pork adulteration. <i>Food Control</i> , 2022, 137, 108863.	2.8	9
13	CRISPR/Cas9 bridged recombinase polymerase amplification with lateral flow biosensor removing potential primer-dimer interference for robust <i>Staphylococcus aureus</i> assay. <i>Sensors and Actuators B: Chemical</i> , 2022, 369, 132293.	4.0	14
14	Simultaneous and accurate visual identification of chicken, duck and pork components with the molecular amplification integrated lateral flow strip. <i>Food Chemistry</i> , 2021, 339, 127891.	4.2	20
15	Self-assembly of a polythymine embedded activatable molecular beacon for one-step quantification of terminal deoxynucleotidyl transferase activity. <i>Analytica Chimica Acta</i> , 2021, 1141, 127-135.	2.6	5
16	Delayed full opening of bumped switchable molecular probe enables repeated generation of target analogues for mix-to-signaling determination of microRNAs. <i>Sensors and Actuators B: Chemical</i> , 2021, 327, 128875.	4.0	1
17	Activation of palindromes on a degradable modular grafting probe enables ultrasensitive detection of microRNAs. <i>Chemical Communications</i> , 2021, 57, 5941-5944.	2.2	6
18	Three-dimensional assembly and disassembly of Fe <sub>3</sub> O <sub>4</sub> -decorated porous carbon nanocomposite with enhanced transversal relaxation for magnetic resonance sensing of bisphenol A. <i>Mikrochimica Acta</i> , 2021, 188, 90.	2.5	14

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19	Periodically programmed building and collapse of DNA networks enables an ultrahigh signal amplification effect for ultrasensitive nucleic acids analysis. <i>Analytica Chimica Acta</i> , 2021, 1150, 338221.	2.6	2
20	A Fluorescent Detection for Paraquat Based on $\hat{I}^2$ -CDs-Enhanced Fluorescent Gold Nanoclusters. <i>Foods</i> , 2021, 10, 1178.	1.9	12
21	Nanozyme catalysis-powered portable mini-drainage device enables real-time and universal weighing analysis of silver ions and silver nanoparticles. <i>Journal of Hazardous Materials</i> , 2021, 415, 125689.	6.5	10
22	Rapid and easy quantitative identification of <i>Cronobacter</i> spp. in infant formula milk powder by isothermal strand-exchange-amplification based molecular capturing lateral flow strip. <i>Food Control</i> , 2021, 126, 108048.	2.8	7
23	Time-resolved fluorescent lateral flow strip for easy and rapid quality control of edible oil. <i>Food Chemistry</i> , 2021, 357, 129739.	4.2	24
24	Target-triggered substantial stacking of electroactive indicators based on digestion-to-growth regulated tandem isothermal amplification for ultrasensitive miRNA determination. <i>Sensors and Actuators B: Chemical</i> , 2021, 344, 130280.	4.0	9
25	Preparation, characterization, and antibiofilm activity of cinnamic acid conjugated hydroxypropyl chitosan derivatives. <i>International Journal of Biological Macromolecules</i> , 2021, 189, 657-667.	3.6	22
26	Framework nucleic acid-wrapped protein-inorganic hybrid nanoflowers with three-stage amplified fluorescence polarization for terminal deoxynucleotidyl transferase activity biosensing. <i>Biosensors and Bioelectronics</i> , 2021, 193, 113564.	5.3	9
27	Mesoporous silica-loaded gold nanocluster with enhanced fluorescence and ratiometric fluorescent detection of thiram in foods. <i>Mikrochimica Acta</i> , 2021, 188, 363.	2.5	12
28	A Short- and Long-Range Fluorescence Resonance Energy Transfer-Cofunctionalized Fluorescence Quenching Collapsar Probe Regulates Amplified and Accelerated Detection of <i>Salmonella</i> . <i>Journal of Agricultural and Food Chemistry</i> , 2021, 69, 14294-14301.	2.4	7
29	A functionalized dumbbell probe-based cascading exponential amplification DNA machine enables amplified probing of microRNAs. <i>Chemical Communications</i> , 2020, 56, 1681-1684.	2.2	18
30	Simultaneous Detection of Multiple $\hat{I}^2$ -Adrenergic Agonists with 2-Directional Lateral Flow Strip Platform. <i>Analytical Sciences</i> , 2020, 36, 653-657.	0.8	9
31	Selection of Specific DNA Aptamers for Hetero-Sandwich-Based Colorimetric Determination of <i>Campylobacter jejuni</i> in Food. <i>Journal of Agricultural and Food Chemistry</i> , 2020, 68, 8455-8461.	2.4	11
32	Ingenious Electrochemiluminescence Bioaptasensor Based on Synergistic Effects and Enzyme-Driven Programmable 3D DNA Nanoflowers for Ultrasensitive Detection of Aflatoxin B1. <i>Analytical Chemistry</i> , 2020, 92, 14122-14129.	3.2	27
33	Facile construction of a molecularly imprinted polymer-based electrochemical sensor for the detection of milk amyloid A. <i>Mikrochimica Acta</i> , 2020, 187, 642.	2.5	12
34	Prediction, evaluation, confirmation, and elimination of matrix effects for lateral flow test strip based rapid and on-site detection of aflatoxin B1 in tea soups. <i>Food Chemistry</i> , 2020, 328, 127081.	4.2	42
35	Signal-off tuned signal-on (SF-T-SN) colorimetric immunoassay for amantadine using activity-metalmodulated peroxidase-mimicking nanozyme. <i>Sensors and Actuators B: Chemical</i> , 2020, 311, 127933.	4.0	14
36	Multi-channel collection of G-quadruplex transducers for amplified signaling of Pax-5 based on target-triggered split-to-intact remodeling of dual-G-rich duplex probe. <i>Sensors and Actuators B: Chemical</i> , 2020, 311, 127913.	4.0	13

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37	A molecule capturer analysis system for visual determination of avian pathogenic Escherichia coli serotype O78 using a lateral flow assay. <i>Mikrochimica Acta</i> , 2020, 187, 198.	2.5	6
38	Facile strategy to enhance the specificity and sensitivity of hairpin molecular devices for detecting pax-5a gene by an integration probe and the specific function of exonuclease $\lambda$ . <i>Sensors and Actuators B: Chemical</i> , 2020, 322, 128495.	4.0	5
39	Surface-Confined Building of Au@Pt-Centered and Multi-G-Quadruplex/Hemin Wire-Surrounded Electroactive Super-nanostructures for Ultrasensitive Monitoring of Morphine. <i>ACS Sensors</i> , 2020, 5, 2644-2651.	4.0	9
40	One nanometer self-assembled aptamer-DNA dendrimers carry 350 doxorubicin: Super-stability and intra-nuclear DNA comet tail. <i>Chemical Engineering Journal</i> , 2020, 388, 124170.	6.6	10
41	L-Cysteine modified gold nanoparticles for tube-based fluorometric determination of mercury(II) ions. <i>Mikrochimica Acta</i> , 2019, 186, 632.	2.5	17
42	A sensitive multiplex PCR protocol for simultaneous detection of chicken, duck, and pork in beef samples. <i>Journal of Food Science and Technology</i> , 2019, 56, 1266-1274.	1.4	31
43	Self-signal-on fluorescent colorimetric protocol for rapid authentication of horsemeat adulterated beef samples with functional designed probes. <i>International Journal of Food Science and Technology</i> , 2019, 54, 1752-1759.	1.3	8
44	Ingenious Design of DNA Concatamers and G-Quadruplex Wires Assisted Assembly of Multibranch DNA Nanoarchitectures for Ultrasensitive Biosensing of miRNA. <i>Analytical Chemistry</i> , 2019, 91, 9747-9753.	3.2	46
45	A Polyamidoamine Dendrimer-Based Electrochemical Immunosensor for Label-Free Determination of Epithelial Cell Adhesion Molecule- Expressing Cancer Cells. <i>Sensors</i> , 2019, 19, 1879.	2.1	17
46	Rapid visual sensing and quantitative identification of duck meat in adulterated beef with a lateral flow strip platform. <i>Food Chemistry</i> , 2019, 294, 224-230.	4.2	40
47	Rapid and easy determination of morphine in chafing dish condiments with colloidal gold labeling based lateral flow strips. <i>Food Science and Human Wellness</i> , 2019, 8, 40-45.	2.2	12
48	Smart engineering of a dual-DNA machine with a high signal-to-noise ratio for one-pot robust and sensitive miRNA signaling. <i>Chemical Communications</i> , 2019, 55, 14367-14370.	2.2	22
49	Determination of $17\beta$ -estradiol by surface-enhanced Raman spectroscopy merged with hybridization chain reaction amplification on Au@Ag core-shell nanoparticles. <i>Mikrochimica Acta</i> , 2019, 186, 52.	2.5	20
50	HAMPT, A Novel Quadruple Drug Combination Designed for Cancer Metastatic Chemoprevention: From Hypothesis to Proof-of-concept. <i>Current Cancer Drug Targets</i> , 2019, 19, 296-303.	0.8	1
51	Highly Simple and Sensitive Molecular Amplification-Integrated Fluorescence Anisotropy for Rapid and On-Site Identification of Adulterated Beef. <i>Analytical Chemistry</i> , 2018, 90, 7171-7175.	3.2	13
52	Stepwise nanoassembly of a single hairpin probe and its biosensing. <i>Talanta</i> , 2018, 187, 272-278.	2.9	6
53	An ultrasensitive signal-on electrochemical aptasensor for ochratoxin A determination based on DNA controlled layer-by-layer assembly of dual gold nanoparticle conjugates. <i>Biosensors and Bioelectronics</i> , 2018, 117, 845-851.	5.3	61
54	Programmable nanoassembly consisting of two hairpin-DNAs for p53 gene determination. <i>Biosensors and Bioelectronics</i> , 2017, 94, 626-631.	5.3	24

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55	Autonomous assembly of ordered metastable DNA nanoarchitecture and in situ visualizing of intracellular microRNAs. <i>Biomaterials</i> , 2017, 120, 57-65.	5.7	38
56	Collapse of chain anadiplois-structured DNA nanowires for highly sensitive colorimetric assay of nucleic acids. <i>Analyst, The</i> , 2017, 142, 613-620.	1.7	4
57	Long-stem shaped multifunctional molecular beacon for highly sensitive nucleic acids determination via intramolecular and intermolecular interactions based strand displacement amplification. <i>Analyst, The</i> , 2017, 142, 4438-4445.	1.7	9
58	Sex-related pharmacokinetic differences and mechanisms of metapristone (RU486 metabolite). <i>Scientific Reports</i> , 2017, 7, 17190.	1.6	9
59	Metapristone (RU486 metabolite) suppresses NSCLC by targeting EGFR-mediated PI3K/AKT pathway. <i>Oncotarget</i> , 2017, 8, 78351-78364.	0.8	8
60	Double-stem Hairpin Probe and Ultrasensitive Colorimetric Detection of Cancer-related Nucleic Acids. <i>Theranostics</i> , 2016, 6, 318-327.	4.6	34
61	Two-wheel drive-based DNA nanomachine and its sensing potential for highly sensitive analysis of cancer-related gene. <i>Biomaterials</i> , 2016, 100, 110-117.	5.7	31
62	The nanotechnology race between China and the United States. <i>Nano Today</i> , 2016, 11, 7-12.	6.2	37
63	Increasingly branched rolling circle amplification for the cancer gene detection. <i>Biosensors and Bioelectronics</i> , 2016, 86, 1067-1073.	5.3	25
64	Dual-cyclical nucleic acid strand-displacement polymerization based signal amplification system for highly sensitive determination of p53 gene. <i>Biosensors and Bioelectronics</i> , 2016, 86, 1024-1030.	5.3	20
65	New function of exonuclease and highly sensitive label-free colorimetric DNA detection. <i>Biosensors and Bioelectronics</i> , 2016, 77, 879-885.	5.3	19
66	Intelligent DNA machine for the ultrasensitive colorimetric detection of nucleic acids. <i>Biosensors and Bioelectronics</i> , 2016, 75, 41-47.	5.3	31
67	Cascade DNA nanomachine and exponential amplification biosensing. <i>Biosensors and Bioelectronics</i> , 2015, 73, 19-25.	5.3	40
68	Novel multifunction-integrated molecular beacon for the amplification detection of DNA hybridization based on primer/template-free isothermal polymerization. <i>Biosensors and Bioelectronics</i> , 2015, 72, 182-190.	5.3	22
69	Isolation and characterization of living circulating tumor cells in patients by immunomagnetic negative enrichment coupled with flow cytometry. <i>Cancer</i> , 2015, 121, 3036-3045.	2.0	64
70	New molecular beacon for p53 gene point mutation and significant potential in serving as the polymerization primer. <i>Biosensors and Bioelectronics</i> , 2015, 66, 504-511.	5.3	29
71	The Unique Pharmacological Characteristics of Mifepristone (RU486): From Terminating Pregnancy to Preventing Cancer Metastasis. <i>Medicinal Research Reviews</i> , 2014, 34, 979-1000.	5.0	70