

Jianguo Xu

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2484434/publications.pdf>

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 | 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 |
| 2 | 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 |
| 3 | 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 |
| 4 | 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 |
| 5 | 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 |
| 6 | Cascade DNA nanomachine and exponential amplification biosensing. <i>Biosensors and Bioelectronics</i> , 2015, 73, 19-25. | 5.3 | 40 |
| 7 | 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 |
| 8 | Autonomous assembly of ordered metastable DNA nanoarchitecture and in situ visualizing of intracellular microRNAs. <i>Biomaterials</i> , 2017, 120, 57-65. | 5.7 | 38 |
| 9 | The nanotechnology race between China and the United States. <i>Nano Today</i> , 2016, 11, 7-12. | 6.2 | 37 |
| 10 | Double-stem Hairpin Probe and Ultrasensitive Colorimetric Detection of Cancer-related Nucleic Acids. <i>Theranostics</i> , 2016, 6, 318-327. | 4.6 | 34 |
| 11 | 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 |
| 12 | Intelligent DNA machine for the ultrasensitive colorimetric detection of nucleic acids. <i>Biosensors and Bioelectronics</i> , 2016, 75, 41-47. | 5.3 | 31 |
| 13 | 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 |
| 14 | 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 |
| 15 | 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 |
| 16 | Increasingly branched rolling circle amplification for the cancer gene detection. <i>Biosensors and Bioelectronics</i> , 2016, 86, 1067-1073. | 5.3 | 25 |
| 17 | Programmable nanoassembly consisting of two hairpin-DNAs for p53 gene determination. <i>Biosensors and Bioelectronics</i> , 2017, 94, 626-631. | 5.3 | 24 |
| 18 | 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 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | 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 |
| 20 | 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 |
| 21 | 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 |
| 22 | 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 |
| 23 | 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 |
| 24 | 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 |
| 25 | Determination of 17 β -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 |
| 26 | 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 |
| 27 | New function of exonuclease and highly sensitive label-free colorimetric DNA detection. <i>Biosensors and Bioelectronics</i> , 2016, 77, 879-885. | 5.3 | 19 |
| 28 | 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 |
| 29 | 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 |
| 30 | L-Cysteine modified gold nanoparticles for tube-based fluorometric determination of mercury(II) ions. <i>Mikrochimica Acta</i> , 2019, 186, 632. | 2.5 | 17 |
| 31 | 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 |
| 32 | 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 |
| 33 | Three-dimensional assembly and disassembly of Fe ₃ O ₄ -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 |
| 34 | 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 |
| 35 | 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 |
| 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 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | 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 |
| 38 | 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 |
| 39 | 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 |
| 40 | A Fluorescent Detection for Paraquat Based on β -CDs-Enhanced Fluorescent Gold Nanoclusters. <i>Foods</i> , 2021, 10, 1178. | 1.9 | 12 |
| 41 | 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 |
| 42 | 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 |
| 43 | 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 |
| 44 | 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 |
| 45 | 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 |
| 46 | 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 |
| 47 | Long-stem shaped multifunctional molecular beacon for highly sensitive nucleic acids determination via intramolecular and intermolecular interactions based strand displacement amplification. <i>Analyst</i> , 2017, 142, 4438-4445. | 1.7 | 9 |
| 48 | Sex-related pharmacokinetic differences and mechanisms of metapristone (RU486 metabolite). <i>Scientific Reports</i> , 2017, 7, 17190. | 1.6 | 9 |
| 49 | Simultaneous Detection of Multiple β -Adrenergic Agonists with 2-Directional Lateral Flow Strip Platform. <i>Analytical Sciences</i> , 2020, 36, 653-657. | 0.8 | 9 |
| 50 | 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 |
| 51 | 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 |
| 52 | 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 |
| 53 | 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 |
| 54 | 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 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 55 | Metapristone (RU486 metabolite) suppresses NSCLC by targeting EGFR-mediated PI3K/AKT pathway. <i>Oncotarget</i> , 2017, 8, 78351-78364. | 0.8 | 8 |
| 56 | 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 |
| 57 | 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 |
| 58 | Stepwise nanoassembly of a single hairpin probe and its biosensing. <i>Talanta</i> , 2018, 187, 272-278. | 2.9 | 6 |
| 59 | A molecule capturer analysis system for visual determination of avian pathogenic <i>Escherichia coli</i> serotype O78 using a lateral flow assay. <i>Mikrochimica Acta</i> , 2020, 187, 198. | 2.5 | 6 |
| 60 | 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 |
| 61 | 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 ϕ . <i>Sensors and Actuators B: Chemical</i> , 2020, 322, 128495. | 4.0 | 5 |
| 62 | 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 |
| 63 | Collapse of chain anadiplois-structured DNA nanowires for highly sensitive colorimetric assay of nucleic acids. <i>Analyst</i> , 2017, 142, 613-620. | 1.7 | 4 |
| 64 | 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 |
| 65 | 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 |
| 66 | 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 |
| 67 | 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 |
| 68 | Performance improved fluorescence polarization for easy and accurate authentication of chicken adulteration. <i>Food Control</i> , 2022, 133, 108604. | 2.8 | 2 |
| 69 | 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 |
| 70 | 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 |
| 71 | 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 |