

Guoming Xie

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5983026/publications.pdf>

Version: 2024-02-01

91
papers

2,808
citations

172457

29
h-index

206112

48
g-index

92
all docs

92
docs citations

92
times ranked

3466
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Cooperative Branch Migration: A Mechanism for Flexible Control of DNA Strand Displacement. ACS Nano, 2022, 16, 3135-3144. | 14.6 | 16 |
| 2 | Specific and robust hybridization based on double-stranded nucleic acids with single-base resolution. Analytica Chimica Acta, 2022, 1199, 339568. | 5.4 | 1 |
| 3 | Identification of an Immune Classification and Prognostic Genes for Lung Adenocarcinoma Based on Immune Cell Signatures. Frontiers in Medicine, 2022, 9, 855387. | 2.6 | 3 |
| 4 | Site-specific insertion of endonuclease recognition sites into amplicons to improve post-PCR analysis sensitivity of gene mutation. Biosensors and Bioelectronics, 2022, 208, 114191. | 10.1 | 2 |
| 5 | An integrated fluorescence biosensor for microRNA detection based on exponential amplification reaction-triggered three-dimensional bipedal DNA walkers. Analytica Chimica Acta, 2021, 1143, 157-165. | 5.4 | 28 |
| 6 | A dual recognition strategy for accurate detection of CTCs based on novel branched PtAuRh trimetallic nanospheres. Biosensors and Bioelectronics, 2021, 176, 112893. | 10.1 | 14 |
| 7 | Xeno nucleic acid probes mediated methylation-specific PCR for single-base resolution analysis of N ⁶ -methyladenosine in RNAs. Analyst, The, 2021, 146, 6306-6314. | 3.5 | 2 |
| 8 | Ultrasensitive electrochemical biosensor for attomolar level detection of let 7a based on toehold mediated strand displacement reaction circuits and molecular beacon mediated circular strand displacement polymerization. Analytica Chimica Acta, 2021, 1147, 108-115. | 5.4 | 16 |
| 9 | An enzyme-powered, three-dimensional lame DNA walker. Biosensors and Bioelectronics, 2021, 177, 112981. | 10.1 | 33 |
| 10 | Recent advances of electrochemical sensors for detecting and monitoring ROS/RNS. Biosensors and Bioelectronics, 2021, 179, 113052. | 10.1 | 55 |
| 11 | Integration of multiplex PCR and CRISPR-Cas allows highly specific detection of multidrug-resistant Acinetobacter Baumannii. Sensors and Actuators B: Chemical, 2021, 334, 129600. | 7.8 | 23 |
| 12 | A comprehensive system for detecting rare single nucleotide variants based on competitive DNA probe and duplex-specific nuclease. Analytica Chimica Acta, 2021, 1166, 338545. | 5.4 | 4 |
| 13 | Proximity ligation assay mediated rolling circle amplification strategy for in situ amplified imaging of glycosylated PD-L1. Analytical and Bioanalytical Chemistry, 2021, 413, 6929-6939. | 3.7 | 10 |
| 14 | An electrochemical biosensor based on hemin/G-quadruplex DNAzyme and PdRu/Pt heterostructures as signal amplifier for circulating tumor cells detection. Journal of Colloid and Interface Science, 2021, 599, 752-761. | 9.4 | 25 |
| 15 | DNAzyme based three-way junction assay for antibody-free detection of locus-specific N6-methyladenosine modifications. Biosensors and Bioelectronics, 2021, 194, 113625. | 10.1 | 20 |
| 16 | Fast detection of <i>E. coli</i> with a novel fluorescent biosensor based on a FRET system between UCNPs and GO@Fe ₃ O ₄ in urine specimens. Analytical Methods, 2021, 13, 2209-2214. | 2.7 | 23 |
| 17 | A nanoprobe for fluorescent monitoring of microRNA and targeted delivery of drugs. RSC Advances, 2021, 11, 8871-8878. | 3.6 | 15 |
| 18 | Electrochemical competitive immunodetection of messenger RNA modified with N6-methyladenosine by using DNA-modified mesoporous PtCo nanospheres. Mikrochimica Acta, 2020, 187, 31. | 5.0 | 22 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 19 | Simulation-guided DNAzyme based nanomachine design for identifying single nucleotide variants. <i>Sensors and Actuators B: Chemical</i> , 2020, 324, 128719. | 7.8 | 2 |
| 20 | Multiplex real-time PCR using double-strand primers and probes for the detection of nucleic acids. <i>Analytical Methods</i> , 2020, 12, 5392-5396. | 2.7 | 4 |
| 21 | PdIrBP mesoporous nanospheres combined with superconductive carbon black for the electrochemical determination and collection of circulating tumor cells. <i>Mikrochimica Acta</i> , 2020, 187, 216. | 5.0 | 20 |
| 22 | Applying CRISPR-Cas12a as a Signal Amplifier to Construct Biosensors for Non-DNA Targets in Ultralow Concentrations. <i>ACS Sensors</i> , 2020, 5, 970-977. | 7.8 | 117 |
| 23 | A fluorometric assay for rapid enrichment and determination of bacteria by using zirconium-metal organic frameworks as both capture surface and signal amplification tag. <i>Mikrochimica Acta</i> , 2020, 187, 188. | 5.0 | 16 |
| 24 | Tuning the specificity of DNA probes using bulge-loops for low-abundance SNV detection. <i>Biosensors and Bioelectronics</i> , 2020, 154, 112092. | 10.1 | 9 |
| 25 | Phage-Guided Targeting, Discriminative Imaging, and Synergistic Killing of Bacteria by AIE Bioconjugates. <i>Journal of the American Chemical Society</i> , 2020, 142, 3959-3969. | 13.7 | 143 |
| 26 | A novel fluorescence biosensor for the detection and imaging of tumor-related mRNA in living cells based on Au//hGNPs-FA nanocarrier. <i>Sensors and Actuators B: Chemical</i> , 2020, 317, 128214. | 7.8 | 5 |
| 27 | Fluorometric determination of microRNA by using an entropy-driven three-dimensional DNA walking machine based on a catalytic hairpin assembly reaction on polystyrene microspheres. <i>Mikrochimica Acta</i> , 2019, 186, 574. | 5.0 | 16 |
| 28 | A novel enzyme-free electrochemical biosensor for rapid detection of <i>Pseudomonas aeruginosa</i> based on high catalytic Cu-ZrMOF and conductive Super P. <i>Biosensors and Bioelectronics</i> , 2019, 142, 111486. | 10.1 | 68 |
| 29 | Graphdiyne-Based One-Step DNA Fluorescent Sensing Platform for the Detection of <i>Mycobacterium tuberculosis</i> and Its Drug-Resistant Genes. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 35622-35629. | 8.0 | 38 |
| 30 | Simultaneous colorimetric determination of acute myocardial infarction biomarkers by integrating self-assembled 3D gold nanovesicles into a multiple immunosorbent assay. <i>Mikrochimica Acta</i> , 2019, 186, 138. | 5.0 | 26 |
| 31 | Specific discrimination and universal signal amplification for RNA detection by coupling toehold exchange with RCA through nucleolytic conversion of a structure-switched hairpin probe. <i>Analytica Chimica Acta</i> , 2019, 1068, 96-103. | 5.4 | 13 |
| 32 | A novel cytosensor based on Pt@Ag nanoflowers and AuNPs/Acetylene black for ultrasensitive and highly specific detection of Circulating Tumor Cells. <i>Biosensors and Bioelectronics</i> , 2018, 104, 72-78. | 10.1 | 74 |
| 33 | Voltammetric immunoassay for <i>Mycobacterium tuberculosis</i> secretory protein MPT64 based on a synergistic amplification strategy using rolling circle amplification and a gold electrode modified with graphene oxide, Fe ₃ O ₄ and Pt nanoparticles. <i>Mikrochimica Acta</i> , 2018, 185, 436. | 5.0 | 28 |
| 34 | Portable and sensitive detection of DNA based on personal glucose meters and nanogold-functionalized PAMAM dendrimer. <i>Sensors and Actuators B: Chemical</i> , 2018, 272, 118-126. | 7.8 | 23 |
| 35 | Analogous modified DNA probe and immune competition method-based electrochemical biosensor for RNA modification. <i>Biosensors and Bioelectronics</i> , 2018, 114, 72-77. | 10.1 | 33 |
| 36 | A target-triggered biosensing platform for detection of HBV DNA based on DNA walker and CHA. <i>Analytical Biochemistry</i> , 2018, 554, 16-22. | 2.4 | 20 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 37 | High-Discrimination Factor Nanosensor Based on Tetrahedral DNA Nanostructures and Gold Nanoparticles for Detection of MiRNA-21 in Live Cells. <i>Theranostics</i> , 2018, 8, 2424-2434. | 10.0 | 17 |
| 38 | A new biosensor based on the recognition of phages and the signal amplification of organic-inorganic hybrid nanoflowers for discriminating and quantitating live pathogenic bacteria in urine. <i>Sensors and Actuators B: Chemical</i> , 2018, 258, 803-812. | 7.8 | 67 |
| 39 | A universal electrochemical biosensor for the highly sensitive determination of microRNAs based on isothermal target recycling amplification and a DNA signal transducer triggered reaction. <i>Mikrochimica Acta</i> , 2017, 184, 1305-1313. | 5.0 | 26 |
| 40 | Double-loop hairpin probe and doxorubicin-loaded gold nanoparticles for the ultrasensitive electrochemical sensing of microRNA. <i>Biosensors and Bioelectronics</i> , 2017, 96, 99-105. | 10.1 | 41 |
| 41 | Hollow Au loaded with kanamycin for pharmacological and laser-triggered photothermal sterilization. <i>RSC Advances</i> , 2017, 7, 16836-16842. | 3.6 | 4 |
| 42 | Universal ratiometric electrochemical biosensing platform based on mesoporous platinum nanocomposite and nicking endonuclease assisted DNA walking strategy. <i>Biosensors and Bioelectronics</i> , 2017, 94, 719-727. | 10.1 | 33 |
| 43 | An "off-on" fluorescent switch assay for microRNA using nonenzymatic ligation-rolling circle amplification. <i>Mikrochimica Acta</i> , 2017, 184, 4323-4330. | 5.0 | 26 |
| 44 | Cascade toehold-mediated strand displacement along with non-enzymatic target recycling amplification for the electrochemical determination of the HIV-1 related gene. <i>Mikrochimica Acta</i> , 2017, 184, 3721-3728. | 5.0 | 24 |
| 45 | A novel colorimetric biosensor for detecting target DNA and human alpha thrombin based on associative toehold activation concatemer induced catalyzed hairpin assembly amplification. <i>Sensors and Actuators B: Chemical</i> , 2017, 239, 447-454. | 7.8 | 31 |
| 46 | A fluorescence biosensor for VEGF detection based on DNA assembly structure switching and isothermal amplification. <i>Biosensors and Bioelectronics</i> , 2017, 89, 964-969. | 10.1 | 50 |
| 47 | Enzyme Functionalized AuNPs and Glucometer-based Protein Detection. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017, 275, 012010. | 0.6 | 0 |
| 48 | Electrochemical immunoassay for the cancer marker LMP-1 (Epstein-Barr virus-derived latent) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 307 nanocomposite consisting of graphene sheets and MWCNTs. <i>Mikrochimica Acta</i> , 2016, 183, 2055-2062. | 5.0 | 16 |
| 49 | Colorimetric determination of staphylococcal enterotoxin B via DNAzyme-guided growth of gold nanoparticles. <i>Mikrochimica Acta</i> , 2016, 183, 2753-2760. | 5.0 | 20 |
| 50 | A universal probe design for colorimetric detection of single-nucleotide variation with visible readout and high specificity. <i>Scientific Reports</i> , 2016, 6, 20257. | 3.3 | 7 |
| 51 | Multiwalled Carbon Nanotube-Graphene Nanosheet-Chitosan-1-Butyl-3-Methylimidazolium Hexafluorophosphate Nanocomposites and Gold Nanoparticle-Thionine for Electrochemical Detection of Cytomegalovirus Phosphoprotein. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 6726-6733. | 0.9 | 1 |
| 52 | An electrochemical biosensor for double-stranded Wnt7B gene detection based on enzymatic isothermal amplification. <i>Biosensors and Bioelectronics</i> , 2016, 86, 75-82. | 10.1 | 26 |
| 53 | Electrochemical Determination of 16s Ribosomal RNA of Mycobacterium Tuberculosis Using Magnetite on Silica with DNA-Functionalized Gold Nanoparticles. <i>Analytical Letters</i> , 2016, 49, 1379-1387. | 1.8 | 3 |
| 54 | Ultraspecific electrochemical DNA biosensor by coupling spontaneous cascade DNA branch migration and dual-signaling sensing strategy. <i>Biosensors and Bioelectronics</i> , 2016, 78, 464-470. | 10.1 | 26 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 55 | A novel label-free and reusable electrochemical cytosensor for highly sensitive detection and specific collection of CTCs. <i>Biosensors and Bioelectronics</i> , 2016, 81, 495-502. | 10.1 | 94 |
| 56 | Energy driven cascade recognition for selective detection of nucleic acids with high discrimination factor at room temperature. <i>Biosensors and Bioelectronics</i> , 2016, 79, 488-494. | 10.1 | 18 |
| 57 | A novel platform for high sensitivity determination of PbP2a based on gold nanoparticles composited graphitized mesoporous carbon and doxorubicin loaded hollow gold nanospheres. <i>Biosensors and Bioelectronics</i> , 2016, 77, 1119-1125. | 10.1 | 25 |
| 58 | Amplified electrochemical detection of mecA gene in methicillin-resistant <i>Staphylococcus aureus</i> based on target recycling amplification and isothermal strand-displacement polymerization reaction. <i>Sensors and Actuators B: Chemical</i> , 2015, 221, 148-154. | 7.8 | 42 |
| 59 | Ultrasensitive electrochemical detection of microRNA-21 combining layered nanostructure of oxidized single-walled carbon nanotubes and nanodiamonds by hybridization chain reaction. <i>Biosensors and Bioelectronics</i> , 2015, 70, 351-357. | 10.1 | 73 |
| 60 | Quadruple signal amplification strategy based on hybridization chain reaction and an immunoelectrode modified with graphene sheets, a hemin/G-quadruplex DNAzyme concatamer, and alcohol dehydrogenase: ultrasensitive determination of influenza virus subtype H7N9. <i>Mikrochimica Acta</i> , 2015, 182, 2377-2385. | 5.0 | 16 |
| 61 | Coupling a universal DNA circuit with graphene sheets/polyaniline/AuNPs nanocomposites for the detection of BCR/ABL fusion gene. <i>Analytica Chimica Acta</i> , 2015, 889, 90-97. | 5.4 | 13 |
| 62 | Proximity-based electrochemical biosensor for highly sensitive determination of methyltransferase activity using gold nanoparticle-based cooperative signal amplification. <i>Mikrochimica Acta</i> , 2015, 182, 2329-2336. | 5.0 | 10 |
| 63 | Direct detection of microRNA-126 at a femtomolar level using a glassy carbon electrode modified with chitosan, graphene sheets, and a poly(amidoamine) dendrimer composite with gold and silver nanoclusters. <i>Mikrochimica Acta</i> , 2015, 182, 77-84. | 5.0 | 41 |
| 64 | DNA-AuNPs based signal amplification for highly sensitive detection of DNA methylation, methyltransferase activity and inhibitor screening. <i>Biosensors and Bioelectronics</i> , 2014, 58, 40-47. | 10.1 | 82 |
| 65 | DNA-based hybridization chain reaction for an ultrasensitive cancer marker EBNA-1 electrochemical immunosensor. <i>Biosensors and Bioelectronics</i> , 2014, 58, 68-74. | 10.1 | 48 |
| 66 | Ultrasensitive Electrochemical Biosensor for the Detection of the mecA Gene Sequence in Methicillin Resistant Strains of <i>Staphylococcus aureus</i> Employing Gold Nanoparticles. <i>Analytical Letters</i> , 2014, 47, 579-591. | 1.8 | 17 |
| 67 | Graphene sheets, polyaniline and AuNPs based DNA sensor for electrochemical determination of BCR/ABL fusion gene with functional hairpin probe. <i>Biosensors and Bioelectronics</i> , 2014, 51, 201-207. | 10.1 | 150 |
| 68 | Aptamer biosensor for sensitive detection of toxin A of <i>Clostridium difficile</i> using gold nanoparticles synthesized by <i>Bacillus stearothermophilus</i> . <i>Biosensors and Bioelectronics</i> , 2014, 54, 217-221. | 10.1 | 103 |
| 69 | Target-induced aptamer release strategy based on electrochemical detection of staphylococcal enterotoxin B using GNPs-ZrO ₂ -Chits film. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 120, 1-7. | 5.0 | 29 |
| 70 | Electrochemical determination of BCR/ABL fusion gene based on in situ synthesized gold nanoparticles and cerium dioxide nanoparticles. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 112, 344-349. | 5.0 | 13 |
| 71 | Sandwich Immunoassay for Hepatitis C Virus Non-Structural 5A Protein Using a Glassy Carbon Electrode Modified with an Au-MoO ₃ /Chitosan Nanocomposite. <i>Analytical Letters</i> , 2013, 46, 1241-1254. | 1.8 | 12 |
| 72 | One-step fabrication of integrated disposable biosensor based on ADH/NAD ⁺ /meldola's blue/graphitized mesoporous carbons/chitosan nanobiocomposite for ethanol detection. <i>Talanta</i> , 2013, 111, 163-169. | 5.5 | 30 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 73 | MultisHRP-DNA-coated CMWNTs as signal labels for an ultrasensitive hepatitis C virus core antigen electrochemical immunosensor. <i>Biosensors and Bioelectronics</i> , 2013, 47, 467-474. | 10.1 | 39 |
| 74 | A novel immunosensor for detecting toxoplasma gondii-specific IgM based on goldmag nanoparticles and graphene sheets. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 101, 481-486. | 5.0 | 57 |
| 75 | Hydrogen peroxide biosensor based on gold nanoparticles/thionine/gold nanoparticles/multi-walled carbon nanotubesâ€“chitosans composite film-modified electrode. <i>Applied Surface Science</i> , 2012, 258, 2802-2807. | 6.1 | 57 |
| 76 | Au/CeO ₂ â€“chitosan composite film for hydrogen peroxide sensing. <i>Applied Surface Science</i> , 2012, 258, 8222-8227. | 6.1 | 37 |
| 77 | Label-free sandwich type of immunosensor for hepatitis C virus core antigen based on the use of gold nanoparticles on a nanostructured metal oxide surface. <i>Mikrochimica Acta</i> , 2012, 178, 331-340. | 5.0 | 37 |
| 78 | Elevated Serum Myeloperoxidase Activities are Significantly Associated with the Prevalence of ACS and High LDL-C Levels in CHD Patients. <i>Journal of Atherosclerosis and Thrombosis</i> , 2012, 19, 435-443. | 2.0 | 21 |
| 79 | Detection of the human prostate-specific antigen using an aptasensor with gold nanoparticles encapsulated by graphitized mesoporous carbon. <i>Mikrochimica Acta</i> , 2012, 178, 163-170. | 5.0 | 95 |
| 80 | Ultrasensitive electrochemical immunosensor for HE4 based on rolling circle amplification. <i>Biosensors and Bioelectronics</i> , 2012, 33, 216-221. | 10.1 | 58 |
| 81 | Disposable Amperometric Immunosensor for Detecting Toxoplasma Gondii-Specific IgM Based on Graphene and CeO ₂ -Au. <i>Acta Chimica Sinica</i> , 2012, 70, 2085. | 1.4 | 3 |
| 82 | Disposable electrochemical immunosensor for myeloperoxidase based on the indium tin oxide electrode modified with an ionic liquid composite film containing gold nanoparticles, poly(o-phenylenediamine) and carbon nanotubes. <i>Mikrochimica Acta</i> , 2011, 173, 513-520. | 5.0 | 21 |
| 83 | Improved electrochemical immunosensor for myeloperoxidase in human serum based on nanogold/cerium dioxide-BMIMPF ₆ /l-Cysteine composite film. <i>Colloids and Surfaces B: Biointerfaces</i> , 2011, 86, 339-344. | 5.0 | 33 |
| 84 | A novel microassay for measuring blood alcohol concentration using a disposable biosensor strip. <i>Forensic Science International</i> , 2011, 207, 177-182. | 2.2 | 26 |
| 85 | Homogeneous competitive assay of ligand affinities based on quenching fluorescence of tyrosine/tryptophan residues in a protein via FÃ¶rster-resonance-energy-transfer. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2010, 77, 869-876. | 3.9 | 22 |
| 86 | An alpha-Amylase Biosensor with 1,1-Dimethyl-3-(2-Amino-1-Hydroxyethyl) Ferrocene as an Electron Transfer Mediator. <i>International Conference on Bioinformatics and Biomedical Engineering: [proceedings]</i> International Conference on Bioinformatics and Biomedical Engineering, 2010, , . | 0.0 | 0 |
| 87 | Amperometric Immunosensor for Myeloperoxidase in Human Serum Based on a Multi-wall Carbon Nanotubes-Ionic Liquid-Cerium Dioxide Film-modified Electrode. <i>Bulletin of the Korean Chemical Society</i> , 2010, 31, 3259-3264. | 1.9 | 15 |
| 88 | An integration strategy to estimate the initial rates of enzyme reactions with much expanded linear ranges using uricases as models. <i>Analytica Chimica Acta</i> , 2009, 631, 22-28. | 5.4 | 17 |
| 89 | Homogeneous noncompetitive assay of protein via FÃ¶rster-resonance-energy-transfer with tryptophan residue(s) as intrinsic donor(s) and fluorescent ligand as acceptor. <i>Biosensors and Bioelectronics</i> , 2009, 25, 112-117. | 10.1 | 27 |
| 90 | Determination of serum alcohol using a disposable biosensor. <i>Forensic Science International</i> , 2008, 179, 192-198. | 2.2 | 23 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 91 | Electrochemical detection of blood alcohol concentration using a disposable biosensor based on screen-printed electrode modified with Nafion and gold nanoparticles. <i>Clinical Chemistry and Laboratory Medicine</i> , 2008, 46, 1641-7. | 2.3 | 19 |