

Guoming Xie

List of Publications by Year in descending order

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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	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
2	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
3	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
4	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
5	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
6	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
7	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
8	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
9	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
10	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
11	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
12	Ultrasensitive electrochemical immunosensor for HE4 based on rolling circle amplification. <i>Biosensors and Bioelectronics</i> , 2012, 33, 216-221.	10.1	58
13	Hydrogen peroxide biosensor based on gold nanoparticles/thionine/gold nanoparticles/multi-walled carbon nanotubes/chitosans composite film-modified electrode. <i>Applied Surface Science</i> , 2012, 258, 2802-2807.	6.1	57
14	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
15	Recent advances of electrochemical sensors for detecting and monitoring ROS/RNS. <i>Biosensors and Bioelectronics</i> , 2021, 179, 113052.	10.1	55
16	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
17	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
18	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

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19	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
20	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
21	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
22	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
23	Au/CeO ₂ @chitosan composite film for hydrogen peroxide sensing. <i>Applied Surface Science</i> , 2012, 258, 8222-8227.	6.1	37
24	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
25	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
26	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
27	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
28	An enzyme-powered, three-dimensional lame DNA walker. <i>Biosensors and Bioelectronics</i> , 2021, 177, 112981.	10.1	33
29	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
30	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
31	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
32	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
33	An integrated fluorescence biosensor for microRNA detection based on exponential amplification reaction-triggered three-dimensional bipedal DNA walkers. <i>Analytica Chimica Acta</i> , 2021, 1143, 157-165.	5.4	28
34	Homogeneous noncompetitive assay of protein via Förster-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
35	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
36	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

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37	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
38	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
39	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
40	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
41	A novel platform for high sensitivity determination of Pb ²⁺ 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
42	An electrochemical biosensor based on hemin/G-quadruplex DNAzyme and PdRu/Pt heterostructures as signal amplifier for circulating tumor cells detection. <i>Journal of Colloid and Interface Science</i> , 2021, 599, 752-761.	9.4	25
43	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
44	Determination of serum alcohol using a disposable biosensor. <i>Forensic Science International</i> , 2008, 179, 192-198.	2.2	23
45	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
46	Integration of multiplex PCR and CRISPR-Cas allows highly specific detection of multidrug-resistant <i>Acinetobacter Baumannii</i> . <i>Sensors and Actuators B: Chemical</i> , 2021, 334, 129600.	7.8	23
47	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. <i>Analytical Methods</i> , 2021, 13, 2209-2214.	2.7	23
48	Homogeneous competitive assay of ligand affinities based on quenching fluorescence of tyrosine/tryptophan residues in a protein via Förster-resonance-energy-transfer. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2010, 77, 869-876.	3.9	22
49	Electrochemical competitive immunodetection of messenger RNA modified with N ⁶ -methyladenosine by using DNA-modified mesoporous PtCo nanospheres. <i>Mikrochimica Acta</i> , 2020, 187, 31.	5.0	22
50	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
51	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
52	Colorimetric determination of staphylococcal enterotoxin B via DNAzyme-guided growth of gold nanoparticles. <i>Mikrochimica Acta</i> , 2016, 183, 2753-2760.	5.0	20
53	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
54	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

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55	DNAzyme based three-way junction assay for antibody-free detection of locus-specific N6-methyladenosine modifications. <i>Biosensors and Bioelectronics</i> , 2021, 194, 113625.	10.1	20
56	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
57	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
58	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
59	Ultrasensitive Electrochemical Biosensor for the Detection of the <i>mecA</i> 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
60	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
61	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
62	Electrochemical immunoassay for the cancer marker LMP-1 (Epstein-Barr virus-derived latent Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 467 nanocomposite consisting of graphene sheets and MWCNTs. <i>Mikrochimica Acta</i> , 2016, 183, 2055-2062.	5.0	16
63	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
64	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
65	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. <i>Analytica Chimica Acta</i> , 2021, 1147, 108-115.	5.4	16
66	Cooperative Branch Migration: A Mechanism for Flexible Control of DNA Strand Displacement. <i>ACS Nano</i> , 2022, 16, 3135-3144.	14.6	16
67	A nanoprobe for fluorescent monitoring of microRNA and targeted delivery of drugs. <i>RSC Advances</i> , 2021, 11, 8871-8878.	3.6	15
68	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
69	A dual recognition strategy for accurate detection of CTCs based on novel branched PtAuRh trimetallic nanospheres. <i>Biosensors and Bioelectronics</i> , 2021, 176, 112893.	10.1	14
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	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
72	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

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73	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
74	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
75	Proximity ligation assay mediated rolling circle amplification strategy for in situ amplified imaging of glycosylated PD-L1. <i>Analytical and Bioanalytical Chemistry</i> , 2021, 413, 6929-6939.	3.7	10
76	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
77	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
78	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
79	Hollow Au loaded with kanamycin for pharmacological and laser-triggered photothermal sterilization. <i>RSC Advances</i> , 2017, 7, 16836-16842.	3.6	4
80	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
81	A comprehensive system for detecting rare single nucleotide variants based on competitive DNA probe and duplex-specific nuclease. <i>Analytica Chimica Acta</i> , 2021, 1166, 338545.	5.4	4
82	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
83	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
84	Identification of an Immune Classification and Prognostic Genes for Lung Adenocarcinoma Based on Immune Cell Signatures. <i>Frontiers in Medicine</i> , 2022, 9, 855387.	2.6	3
85	Simulation-guided DNAzyme based nanomachine design for identifying single nucleotide variants. <i>Sensors and Actuators B: Chemical</i> , 2020, 324, 128719.	7.8	2
86	Xeno nucleic acid probes mediated methylation-specific PCR for single-base resolution analysis of N ⁶ -methyladenosine in RNAs. <i>Analyst</i> , 2021, 146, 6306-6314.	3.5	2
87	Site-specific insertion of endonuclease recognition sites into amplicons to improve post-PCR analysis sensitivity of gene mutation. <i>Biosensors and Bioelectronics</i> , 2022, 208, 114191.	10.1	2
88	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
89	Specific and robust hybridization based on double-stranded nucleic acids with single-base resolution. <i>Analytica Chimica Acta</i> , 2022, 1199, 339568.	5.4	1
90	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] International Conference on Bioinformatics and Biomedical Engineering</i> , 2010, , .	0.0	0

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91	Enzyme Functionalized AuNPs and Glucometer-based Protein Detection. IOP Conference Series: Materials Science and Engineering, 2017, 275, 012010.	0.6	0