

Guoming Xie

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

87
papers

2,051
citations

25
h-index

40
g-index

92
ext. papers

2,406
ext. citations

7.4
avg, IF

5.04
L-index

#	Paper	IF	Citations
87	Specific and robust hybridization based on double-stranded nucleic acids with single-base resolution.. <i>Analytica Chimica Acta</i> , 2022 , 1199, 339568	6.6	0
86	Identification of an Immune Classification and Prognostic Genes for Lung Adenocarcinoma Based on Immune Cell Signatures.. <i>Frontiers in Medicine</i> , 2022 , 9, 855387	4.9	0
85	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	11.8	0
84	An enzyme-powered, three-dimensional lame DNA walker. <i>Biosensors and Bioelectronics</i> , 2021 , 177, 1129818	11.8	10
83	Recent advances of electrochemical sensors for detecting and monitoring ROS/RNS. <i>Biosensors and Bioelectronics</i> , 2021 , 179, 113052	11.8	19
82	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	8.5	7
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	6.6	0
80	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	6.6	13
79	A dual recognition strategy for accurate detection of CTCs based on novel branched PtAuRh trimetallic nanospheres. <i>Biosensors and Bioelectronics</i> , 2021 , 176, 112893	11.8	6
78	Xeno nucleic acid probes mediated methylation-specific PCR for single-base resolution analysis of N-methyladenosine in RNAs. <i>Analyst, The</i> , 2021 , 146, 6306-6314	5	0
77	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	6.6	6
76	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	4.4	1
75	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	9.3	11
74	DNAzyme based three-way junction assay for antibody-free detection of locus-specific N-methyladenosine modifications. <i>Biosensors and Bioelectronics</i> , 2021 , 194, 113625	11.8	3
73	Fast detection of with a novel fluorescent biosensor based on a FRET system between UCNPs and GO@FeO in urine specimens. <i>Analytical Methods</i> , 2021 , 13, 2209-2214	3.2	5
72	A nanoprobe for fluorescent monitoring of microRNA and targeted delivery of drugs.. <i>RSC Advances</i> , 2021 , 11, 8871-8878	3.7	6
71	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	5.8	13

70	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	9.2	52
69	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	5.8	6
68	Tuning the specificity of DNA probes using bulge-loops for low-abundance SNV detection. <i>Biosensors and Bioelectronics</i> , 2020 , 154, 112092	11.8	4
67	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	16.4	80
66	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	8.5	4
65	Simulation-guided DNAzyme based nanomachine design for identifying single nucleotide variants. <i>Sensors and Actuators B: Chemical</i> , 2020 , 324, 128719	8.5	2
64	Multiplex real-time PCR using double-strand primers and probes for the detection of nucleic acids. <i>Analytical Methods</i> , 2020 , 12, 5392-5396	3.2	2
63	Graphdiyne-Based One-Step DNA Fluorescent Sensing Platform for the Detection of and Its Drug-Resistant Genes. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 35622-35629	9.5	19
62	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	5.8	16
61	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	6.6	7
60	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	5.8	10
59	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	11.8	39
58	Electrochemical competitive immunodetection of messenger RNA modified with N6-methyladenosine by using DNA-modified mesoporous PtCo nanospheres. <i>Mikrochimica Acta</i> , 2019 , 187, 31	5.8	13
57	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	11.8	57
56	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	12.1	14
55	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	8.5	42
54	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, FeO and Pt nanoparticles. <i>Mikrochimica Acta</i> , 2018 , 185, 436	5.8	18
53	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	8.5	17

52	Analogous modified DNA probe and immune competition method-based electrochemical biosensor for RNA modification. <i>Biosensors and Bioelectronics</i> , 2018 , 114, 72-77	11.8	19
51	A target-triggered biosensing platform for detection of HBV DNA based on DNA walker and CHA. <i>Analytical Biochemistry</i> , 2018 , 554, 16-22	3.1	15
50	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	5.8	24
49	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	11.8	34
48	Hollow Au loaded with kanamycin for pharmacological and laser-triggered photothermal sterilization. <i>RSC Advances</i> , 2017 , 7, 16836-16842	3.7	2
47	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	11.8	20
46	An off-on fluorescent switch assay for microRNA using nonenzymatic ligation-rolling circle amplification. <i>Mikrochimica Acta</i> , 2017 , 184, 4323-4330	5.8	24
45	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	5.8	21
44	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	8.5	28
43	A fluorescence biosensor for VEGF detection based on DNA assembly structure switching and isothermal amplification. <i>Biosensors and Bioelectronics</i> , 2017 , 89, 964-969	11.8	40
42	Enzyme Functionalized AuNPs and Glucometer-based Protein Detection. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017 , 275, 012010	0.4	
41	Colorimetric determination of staphylococcal enterotoxin B via DNAzyme-guided growth of gold nanoparticles. <i>Mikrochimica Acta</i> , 2016 , 183, 2753-2760	5.8	17
40	A universal probe design for colorimetric detection of single-nucleotide variation with visible readout and high specificity. <i>Scientific Reports</i> , 2016 , 6, 20257	4.9	5
39	An electrochemical biosensor for double-stranded Wnt7B gene detection based on enzymatic isothermal amplification. <i>Biosensors and Bioelectronics</i> , 2016 , 86, 75-82	11.8	21
38	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 ^{2.2}		2
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	11.8	23
36	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	11.8	78
35	Energy driven cascade recognition for selective detection of nucleic acids with high discrimination factor at room temperature. <i>Biosensors and Bioelectronics</i> , 2016 , 79, 488-94	11.8	16

34	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, 1119-25	11.8	22
33	Electrochemical immunoassay for the cancer marker LMP-1 (Epstein-Barr virus-derived latent membrane protein 1) using a glassy carbon electrode modified with Pd@Pt nanoparticles and a nanocomposite consisting of graphene sheets and MWCNTs. <i>Mikrochimica Acta</i> , 2016 , 183, 2055-2062	5.8	14
32	Amplified electrochemical detection of mecA gene in methicillin-resistant Staphylococcus aureus based on target recycling amplification and isothermal strand-displacement polymerization reaction. <i>Sensors and Actuators B: Chemical</i> , 2015 , 221, 148-154	8.5	37
31	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, 351-7	11.8	62
30	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	5.8	13
29	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, 90-7	6.6	11
28	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	5.8	8
27	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	5.8	37
26	Ultrasensitive Electrochemical Biosensor for the Detection of the mecA Gene Sequence in Methicillin Resistant Strains of Staphylococcus aureus Employing Gold Nanoparticles. <i>Analytical Letters</i> , 2014 , 47, 579-591	2.2	14
25	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, 201-7	11.8	132
24	Aptamer biosensor for sensitive detection of toxin A of Clostridium difficile using gold nanoparticles synthesized by Bacillus stearothermophilus. <i>Biosensors and Bioelectronics</i> , 2014 , 54, 217-21	11.8	90
23	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	6	25
22	DNA-AuNPs based signal amplification for highly sensitive detection of DNA methylation, methyltransferase activity and inhibitor screening. <i>Biosensors and Bioelectronics</i> , 2014 , 58, 40-7	11.8	70
21	DNA-based hybridization chain reaction for an ultrasensitive cancer marker EBNA-1 electrochemical immunosensor. <i>Biosensors and Bioelectronics</i> , 2014 , 58, 68-74	11.8	46
20	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, 344-9	6	10
19	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	2.2	10
18	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, 163-9	6.2	25
17	MultisHRP-DNA-coated CMWNTs as signal labels for an ultrasensitive hepatitis C virus core antigen electrochemical immunosensor. <i>Biosensors and Bioelectronics</i> , 2013 , 47, 467-74	11.8	29

16	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, 481-6	6	44
15	Ultrasensitive electrochemical immunosensor for HE4 based on rolling circle amplification. <i>Biosensors and Bioelectronics</i> , 2012 , 33, 216-21	11.8	54
14	Hydrogen peroxide biosensor based on gold nanoparticles/thionine/gold nanoparticles/multi-walled carbon nanotubes β hitosans composite film-modified electrode. <i>Applied Surface Science</i> , 2012 , 258, 2802-2807	6.7	55
13	Au/CeO ₂ β hitosan composite film for hydrogen peroxide sensing. <i>Applied Surface Science</i> , 2012 , 258, 8222-8227	6.7	35
12	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	5.8	29
11	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, 435-43	4	15
10	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	5.8	86
9	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	5.8	17
8	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, 339-44	6	27
7	A novel microassay for measuring blood alcohol concentration using a disposable biosensor strip. <i>Forensic Science International</i> , 2011 , 207, 177-82	2.6	23
6	Homogeneous competitive assay of ligand affinities based on quenching fluorescence of tyrosine/tryptophan residues in a protein via F β ster-resonance-energy-transfer. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2010 , 77, 869-76	4.4	22
5	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	1.2	15
4	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, 22-8	6.6	16
3	Homogeneous noncompetitive assay of protein via F β ster-resonance-energy-transfer with tryptophan residue(s) as intrinsic donor(s) and fluorescent ligand as acceptor. <i>Biosensors and Bioelectronics</i> , 2009 , 25, 112-7	11.8	26
2	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	5.9	17
1	Determination of serum alcohol using a disposable biosensor. <i>Forensic Science International</i> , 2008 , 179, 192-8	2.6	21