

Guodong Liu

List of Publications by Citations

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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.

94
papers

7,053
citations

43
h-index

83
g-index

94
ext. papers

7,568
ext. citations

7.4
avg, IF

5.95
L-index

#	Paper	IF	Citations
94	Ultrasensitive electrical biosensing of proteins and DNA: carbon-nanotube derived amplification of the recognition and transduction events. <i>Journal of the American Chemical Society</i> , 2004 , 126, 3010-1	16.4	644
93	Electrochemical coding technology for simultaneous detection of multiple DNA targets. <i>Journal of the American Chemical Society</i> , 2003 , 125, 3214-5	16.4	575
92	Biosensor based on self-assembling acetylcholinesterase on carbon nanotubes for flow injection/amperometric detection of organophosphate pesticides and nerve agents. <i>Analytical Chemistry</i> , 2006 , 78, 835-43	7.8	396
91	Electrochemical sensor for organophosphate pesticides and nerve agents using zirconia nanoparticles as selective sorbents. <i>Analytical Chemistry</i> , 2005 , 77, 5894-901	7.8	390
90	Disposable nucleic acid biosensors based on gold nanoparticle probes and lateral flow strip. <i>Analytical Chemistry</i> , 2009 , 81, 1660-8	7.8	292
89	Aptamer-nanoparticle strip biosensor for sensitive detection of cancer cells. <i>Analytical Chemistry</i> , 2009 , 81, 10013-8	7.8	285
88	Electrochemical coding for multiplexed immunoassays of proteins. <i>Analytical Chemistry</i> , 2004 , 76, 7126-308	7.8	265
87	Aptamer-functionalized gold nanoparticles as probes in a dry-reagent strip biosensor for protein analysis. <i>Analytical Chemistry</i> , 2009 , 81, 669-75	7.8	257
86	Nanomaterial labels in electrochemical immunosensors and immunoassays. <i>Talanta</i> , 2007 , 74, 308-17	6.2	252
85	Multiple enzyme layers on carbon nanotubes for electrochemical detection down to 80 DNA copies. <i>Analytical Chemistry</i> , 2005 , 77, 4662-6	7.8	201
84	Disposable electrochemical immunosensor diagnosis device based on nanoparticle probe and immunochromatographic strip. <i>Analytical Chemistry</i> , 2007 , 79, 7644-53	7.8	199
83	Ultrasensitive nucleic acid biosensor based on enzyme-gold nanoparticle dual label and lateral flow strip biosensor. <i>Biosensors and Bioelectronics</i> , 2011 , 26, 2018-24	11.8	164
82	Sensitive immunoassay of a biomarker tumor necrosis factor-alpha based on poly(guanine)-functionalized silica nanoparticle label. <i>Analytical Chemistry</i> , 2006 , 78, 6974-9	7.8	162
81	A nanoparticle label/immunochromatographic electrochemical biosensor for rapid and sensitive detection of prostate-specific antigen. <i>Biosensors and Bioelectronics</i> , 2008 , 23, 1659-65	11.8	142
80	Nanoparticle-based electrochemical immunosensor for the detection of phosphorylated acetylcholinesterase: an exposure biomarker of organophosphate pesticides and nerve agents. <i>Chemistry - A European Journal</i> , 2008 , 14, 9951-9	4.8	114
79	Lateral flow nucleic acid biosensor for Cu ²⁺ detection in aqueous solution with high sensitivity and selectivity. <i>Chemical Communications</i> , 2010 , 46, 9043-5	5.8	101
78	Electrochemical quantification of single-nucleotide polymorphisms using nanoparticle probes. <i>Journal of the American Chemical Society</i> , 2007 , 129, 10394-401	16.4	99

77	Visual detection of microRNA with lateral flow nucleic acid biosensor. <i>Biosensors and Bioelectronics</i> , 2014 , 54, 578-84	11.8	97
76	Carbon nanotube-based lateral flow biosensor for sensitive and rapid detection of DNA sequence. <i>Biosensors and Bioelectronics</i> , 2015 , 64, 367-72	11.8	96
75	Gold-nanoparticle-decorated silica nanorods for sensitive visual detection of proteins. <i>Analytical Chemistry</i> , 2014 , 86, 7351-9	7.8	96
74	Electrochemical assay of active prostate-specific antigen (PSA) using ferrocene-functionalized peptide probes. <i>Electrochemistry Communications</i> , 2010 , 12, 471-474	5.1	84
73	DNA-based amplified bioelectronic detection and coding of proteins. <i>Angewandte Chemie - International Edition</i> , 2004 , 43, 2158-61	16.4	83
72	Hetero-enzyme-based two-round signal amplification strategy for trace detection of aflatoxin B1 using an electrochemical aptasensor. <i>Biosensors and Bioelectronics</i> , 2016 , 80, 574-581	11.8	80
71	Recent trends in SELEX technique and its application to food safety monitoring. <i>Mikrochimica Acta</i> , 2014 , 181, 479-491	5.8	77
70	Versatile apoferritin nanoparticle labels for assay of protein. <i>Analytical Chemistry</i> , 2006 , 78, 7417-23	7.8	76
69	Molecular beacon-functionalized gold nanoparticles as probes in dry-reagent strip biosensor for DNA analysis. <i>Chemical Communications</i> , 2009 , 3065-7	5.8	72
68	Indium microrod tags for electrochemical detection of DNA hybridization. <i>Analytical Chemistry</i> , 2003 , 75, 6218-22	7.8	71
67	Multiplex electrochemical immunoassay using gold nanoparticle probes and immunochromatographic strips. <i>Electrochemistry Communications</i> , 2008 , 10, 1636-1640	5.1	70
66	MWCNTs based high sensitive lateral flow strip biosensor for rapid determination of aqueous mercury ions. <i>Biosensors and Bioelectronics</i> , 2016 , 85, 331-336	11.8	69
65	Fluorescent carbon nanoparticle-based lateral flow biosensor for ultrasensitive detection of DNA. <i>Biosensors and Bioelectronics</i> , 2017 , 98, 147-154	11.8	67
64	Visual detection of single-nucleotide polymorphism with hairpin oligonucleotide-functionalized gold nanoparticles. <i>Analytical Chemistry</i> , 2010 , 82, 7169-77	7.8	66
63	Apoferritin-templated synthesis of metal phosphate nanoparticle labels for electrochemical immunoassay. <i>Small</i> , 2006 , 2, 1139-43	11	66
62	Electrochemical proteolytic beacon for detection of matrix metalloproteinase activities. <i>Journal of the American Chemical Society</i> , 2006 , 128, 12382-3	16.4	64
61	Dye-doped silica nanoparticle labels/protein microarray for detection of protein biomarkers. <i>Analyst, The</i> , 2008 , 133, 1550-5	5	61
60	Quantum-dots based electrochemical immunoassay of interleukin-1 β . <i>Electrochemistry Communications</i> , 2007 , 9, 1573-1577	5.1	53

59	Visual detection of Hg ²⁺ in aqueous solution using gold nanoparticles and thymine-rich hairpin DNA probes. <i>Biosensors and Bioelectronics</i> , 2011 , 26, 4464-70	11.8	52
58	Encoded beads for electrochemical identification. <i>Analytical Chemistry</i> , 2003 , 75, 4667-71	7.8	52
57	A systematic study on dysregulated microRNAs in cervical cancer development. <i>International Journal of Cancer</i> , 2016 , 138, 1312-27	7.5	52
56	Visual detection of gene mutations based on isothermal strand-displacement polymerase reaction and lateral flow strip. <i>Biosensors and Bioelectronics</i> , 2012 , 31, 310-5	11.8	51
55	Lateral flow biosensors based on the use of micro- and nanomaterials: a review on recent developments. <i>Mikrochimica Acta</i> , 2019 , 187, 70	5.8	51
54	Gold nanoparticles based lateral flow immunoassay with largely amplified sensitivity for rapid melamine screening. <i>Mikrochimica Acta</i> , 2016 , 183, 1989-1994	5.8	50
53	Lateral Flow Test for Visual Detection of Multiple MicroRNAs. <i>Sensors and Actuators B: Chemical</i> , 2018 , 264, 320-326	8.5	47
52	Electroactive silica nanoparticles for biological labeling. <i>Small</i> , 2006 , 2, 1134-8	11	46
51	Bioassay labels based on apoferritin nanovehicles. <i>ChemBioChem</i> , 2006 , 7, 1315-9	3.8	41
50	Biosensors for early diagnosis of pancreatic cancer: a review. <i>Translational Research</i> , 2019 , 213, 67-89	11	40
49	Gold nanocage-based lateral flow immunoassay for immunoglobulin G. <i>Mikrochimica Acta</i> , 2017 , 184, 2023-2029	5.8	37
48	Nanovehicles Based Bioassay Labels. <i>Electroanalysis</i> , 2007 , 19, 777-785	3	35
47	A renewable electrochemical magnetic immunosensor based on gold nanoparticle labels. <i>Journal of Nanoscience and Nanotechnology</i> , 2005 , 5, 1060-5	1.3	34
46	Probing the Aggregation Mechanism of Gold Nanoparticles Triggered by a Globular Protein. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 1377-1386	3.8	33
45	Apoferritin-templated synthesis of encoded metallic phosphate nanoparticle tags. <i>Analytical Chemistry</i> , 2007 , 79, 5614-9	7.8	33
44	Visual detection of single-base mismatches in DNA using hairpin oligonucleotide with double-target DNA binding sequences and gold nanoparticles. <i>Biosensors and Bioelectronics</i> , 2012 , 34, 37-43	11.8	29
43	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	7.8	28
42	Gold-platinum nanoflowers as a label and as an enzyme mimic for use in highly sensitive lateral flow immunoassays: application to detection of rabbit IgG. <i>Mikrochimica Acta</i> , 2019 , 186, 357	5.8	27

41	Magnetized carbon nanotubes for visual detection of proteins directly in whole blood. <i>Analytica Chimica Acta</i> , 2017 , 993, 79-86	6.6	25
40	Recent Advances in Nanoparticles-based Lateral Flow Biosensors. <i>American Journal of Biomedical Sciences</i> , 2014 , 41-57		23
39	Ultrasensitive electrochemical detection of nucleic acid based on the isothermal strand-displacement polymerase reaction and enzyme dual amplification. <i>Electrochemistry Communications</i> , 2010 , 12, 985-988	5.1	23
38	Probing the structural basis and adsorption mechanism of an enzyme on nano-sized protein carriers. <i>Nanoscale</i> , 2017 , 9, 3512-3523	7.7	22
37	Nanomaterial Based Electrochemical DNA Biosensors and Bioassays. <i>Journal of Biomedical Nanotechnology</i> , 2008 , 4, 419-431	4	22
36	Quantitative Immunochromatographic Strip Biosensor for the Detection of Carcinoembryonic Antigen Tumor Biomarker in Human Plasma. <i>American Journal of Biomedical Sciences</i> , 70-79		22
35	Simultaneous detection of nucleic acid and protein using gold nanoparticles and lateral flow device. <i>Analytical Sciences</i> , 2014 , 30, 637-42	1.7	20
34	Lateral flow assay for carbohydrate antigen 19-9 in whole blood by using magnetized carbon nanotubes. <i>Mikrochimica Acta</i> , 2017 , 184, 4287-4294	5.8	20
33	Development of quantitative immunochromatographic assay for rapid and sensitive detection of carbohydrate antigen 19-9 (CA 19-9) in human plasma. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2017 , 146, 285-291	3.5	18
32	Carbon nanotube-based lateral flow immunoassay for ultrasensitive detection of proteins: application to the determination of IgG. <i>Mikrochimica Acta</i> , 2019 , 186, 436	5.8	16
31	Differential Pulse Voltammetric Determination of Uric Acid on Carbon-Coated Iron Nanoparticle Modified Glassy Carbon Electrodes. <i>Electroanalysis</i> , 2008 , 20, 1116-1120	3	16
30	DNA-Based Amplified Bioelectronic Detection and Coding of Proteins. <i>Angewandte Chemie</i> , 2004 , 116, 2210-2213	3.6	15
29	A ratiometric fluorescent probe for rapidly detecting bio-thiols in vitro and in living cells. <i>Dyes and Pigments</i> , 2019 , 171, 107688	4.6	13
28	Moving Enzyme-Linked ImmunoSorbent Assay to the Point-of-Care Dry-Reagent Strip Biosensors. <i>American Journal of Biomedical Sciences</i> , 23-32		13
27	Lateral flow test for visual detection of silver (I) based on cytosine-Ag(I)-cytosine interaction in C-rich oligonucleotides. <i>Mikrochimica Acta</i> , 2017 , 184, 4243-4250	5.8	12
26	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	5.8	12
25	Development of Low-Cost DDGS-Based Activated Carbons and Their Applications in Environmental Remediation and High-Performance Electrodes for Supercapacitors. <i>Journal of Polymers and the Environment</i> , 2015 , 23, 595-605	4.5	11
24	Engineering Protein-Gold Nanoparticle/Nanorod Complexation via Surface Modification for Protein Immobilization and Potential Therapeutic Applications. <i>ACS Applied Nano Materials</i> , 2018 , 1, 4053-4063 ¹¹	5.6	11

23	A sulfonated mesoporous silica nanoparticle for enzyme protection against denaturants and controlled release under reducing conditions. <i>Journal of Colloid and Interface Science</i> , 2019 , 556, 292-300	9.3	11
22	Lateral Flow Aptasensor for Simultaneous Detection of Platelet-Derived Growth Factor-BB (PDGF-BB) and Thrombin. <i>Molecules</i> , 2019 , 24,	4.8	10
21	Non-Enzymatic Electrochemical Sensor Based on Silver Nanoparticle-Decorated Carbon Nanotubes. <i>Molecules</i> , 2019 , 24,	4.8	10
20	Templated one-step synthesis of compositionally encoded nanowire tags. <i>Analytical Chemistry</i> , 2006 , 78, 2461-4	7.8	10
19	Ultrasensitive electrochemical detection of mRNA using branched DNA amplifiers. <i>Electrochemistry Communications</i> , 2008 , 10, 1847-1850	5.1	8
18	Magnetized Carbon Nanotube Based Lateral Flow Immunoassay for Visual Detection of Complement Factor B. <i>Molecules</i> , 2019 , 24,	4.8	7
17	Selection of Specific DNA Aptamers for Hetero-Sandwich-Based Colorimetric Determination of in Food. <i>Journal of Agricultural and Food Chemistry</i> , 2020 , 68, 8455-8461	5.7	7
16	Sensitive detection of microRNA-21 in cancer cells and human serum with Au@Si nanocomposite and lateral flow assay. <i>Analytica Chimica Acta</i> , 2021 , 1147, 56-63	6.6	7
15	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	8.5	6
14	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	9.2	5
13	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	7.8	5
12	A GSH Fluorescent Probe with a Large Stokes Shift and Its Application in Living Cells. <i>Sensors</i> , 2019 , 19,	3.8	5
11	Simultaneous Detection of Multiple β -Adrenergic Agonists with 2-Directional Lateral Flow Strip Platform. <i>Analytical Sciences</i> , 2020 , 36, 653-658	1.7	4
10	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	8.5	4
9	Target-induced molecular-switch on triple-helix DNA-functionalized carbon nanotubes for simultaneous visual detection of nucleic acids and proteins. <i>Chemical Communications</i> , 2020 , 56, 13657-13660	5.8	3
8	Gold nanorods-based lateral flow biosensors for sensitive detection of nucleic acids. <i>Mikrochimica Acta</i> , 2021 , 188, 133	5.8	3
7	Gold-platinum nanoflowers as colored and catalytic labels for ultrasensitive lateral flow MicroRNA-21 assay. <i>Sensors and Actuators B: Chemical</i> , 2021 , 344, 130325	8.5	3
6	Portable Analytical Systems for On-Site Diagnosis of Exposure to Pesticides and Nerve Agents. <i>ACS Symposium Series</i> , 2009 , 85-98	0.4	2

5	Recent progress of personal glucose meters integrated methods in food safety hazards detection. <i>Critical Reviews in Food Science and Nutrition</i> , 2021 , 1-14	11.5	2
4	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	11.8	1
3	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	6.2	1
2	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	8.5	1
1	Nanomaterial-Based Electrochemical Biosensors and Bioassays 2010 , 61-88		