

# Peng Miao

## List of Publications by Year in descending order

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170  
papers

5,724  
citations

87888

38  
h-index

106344

65  
g-index

174  
all docs

174  
docs citations

174  
times ranked

5982  
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent advances in carbon nanodots: synthesis, properties and biomedical applications. <i>Nanoscale</i> , 2015, 7, 1586-1595.	5.6	420
2	DNA Modified Fe <sub>3</sub> O <sub>4</sub> @Au Magnetic Nanoparticles as Selective Probes for Simultaneous Detection of Heavy Metal Ions. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 3940-3947.	8.0	233
3	N-doped carbon-dots for luminescent solar concentrators. <i>Journal of Materials Chemistry A</i> , 2017, 5, 21452-21459.	10.3	144
4	A novel electrochemical method to detect mercury (II) ions. <i>Electrochemistry Communications</i> , 2009, 11, 1904-1907.	4.7	136
5	Two-Step Hydrothermal Preparation of Carbon Dots for Calcium Ion Detection. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 44566-44572.	8.0	118
6	Ultrasensitive Detection of MicroRNA through Rolling Circle Amplification on a DNA Tetrahedron Decorated Electrode. <i>Bioconjugate Chemistry</i> , 2015, 26, 602-607.	3.6	110
7	Highly sensitive, label-free colorimetric assay of trypsin using silver nanoparticles. <i>Biosensors and Bioelectronics</i> , 2013, 49, 20-24.	10.1	107
8	Triple Signal Amplification Strategy for Ultrasensitive Determination of miRNA Based on Duplex Specific Nuclease and Bridge DNA-Gold Nanoparticles. <i>Analytical Chemistry</i> , 2018, 90, 2395-2400.	6.5	105
9	Gold Nanoparticles and Cleavage-Based Dual Signal Amplification for Ultrasensitive Detection of Silver Ions. <i>Analytical Chemistry</i> , 2013, 85, 7966-7970.	6.5	104
10	MicroRNA detection based on analyte triggered nanoparticle localization on a tetrahedral DNA modified electrode followed by hybridization chain reaction dual amplification. <i>Chemical Communications</i> , 2015, 51, 15629-15632.	4.1	96
11	Gold Nanoparticles-Based Multipedal DNA Walker for Ratiometric Detection of Circulating Tumor Cell. <i>Analytical Chemistry</i> , 2019, 91, 15187-15192.	6.5	92
12	An electrochemical alkaline phosphatase biosensor fabricated with two DNA probes coupled with $\lambda$ exonuclease. <i>Biosensors and Bioelectronics</i> , 2011, 27, 178-182.	10.1	88
13	Dumbbell Hybridization Chain Reaction Based Electrochemical Biosensor for Ultrasensitive Detection of Exosomal miRNA. <i>Analytical Chemistry</i> , 2020, 92, 12026-12032.	6.5	87
14	Electrochemical Detection of miRNA Combining T7 Exonuclease-Assisted Cascade Signal Amplification and DNA-Templated Copper Nanoparticles. <i>Analytical Chemistry</i> , 2018, 90, 11154-11160.	6.5	86
15	Bipedal DNA Walker Based Electrochemical Genosensing Strategy. <i>Analytical Chemistry</i> , 2019, 91, 4953-4957.	6.5	81
16	Electrochemical Strategy for Sensing Protein Phosphorylation. <i>Bioconjugate Chemistry</i> , 2012, 23, 141-145.	3.6	80
17	Melamine Functionalized Silver Nanoparticles as the Probe for Electrochemical Sensing of Clenbuterol. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 8667-8672.	8.0	80
18	Carbon dots based nanocomposite thin film for highly efficient luminescent solar concentrators. <i>Organic Electronics</i> , 2018, 62, 284-289.	2.6	79

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19	Ultrasensitive electrochemical detection of microRNA with star trigon structure and endonuclease mediated signal amplification. <i>Biosensors and Bioelectronics</i> , 2015, 63, 365-370.	10.1	78
20	Functionalization of platinum nanoparticles for electrochemical detection of nitrite. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 399, 2407-2411.	3.7	75
21	Hybridization chain reaction directed DNA superstructures assembly for biosensing applications. <i>TrAC - Trends in Analytical Chemistry</i> , 2017, 94, 1-13.	11.4	75
22	Tetrahedral DNA Nanostructure-Based MicroRNA Biosensor Coupled with Catalytic Recycling of the Analyte. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 6238-6243.	8.0	71
23	Facile synthesis of carbon nanodots from ethanol and their application in ferric( $\text{Fe}^{3+}$ ) ion assay. <i>Journal of Materials Chemistry A</i> , 2015, 3, 15068-15073.	10.3	69
24	Near-Infrared $\text{Ag}_2\text{S}$ Quantum Dots-Based DNA Logic Gate Platform for miRNA Diagnostics. <i>Analytical Chemistry</i> , 2016, 88, 7567-7573.	6.5	67
25	Polydopamine nanosphere@silver nanoclusters for fluorescence detection of multiplex tumor markers. <i>Nanoscale</i> , 2019, 11, 8119-8123.	5.6	67
26	Study of Pt/TiO <sub>2</sub> nanocomposite for cancer-cell treatment. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2010, 98, 207-210.	3.8	66
27	An electrochemical sensing strategy for ultrasensitive detection of glutathione by using two gold electrodes and two complementary oligonucleotides. <i>Biosensors and Bioelectronics</i> , 2009, 24, 3347-3351.	10.1	64
28	Signal amplification by enzymatic tools for nucleic acids. <i>TrAC - Trends in Analytical Chemistry</i> , 2015, 67, 1-15.	11.4	61
29	Peptide cleavage-based electrochemical biosensor coupling graphene oxide and silver nanoparticles. <i>Analytica Chimica Acta</i> , 2019, 1047, 45-51.	5.4	60
30	DNA Walking and Rolling Nanomachine for Electrochemical Detection of miRNA. <i>Small</i> , 2020, 16, e2004518.	10.0	60
31	Recent Progress in DNA Hybridization Chain Reaction Strategies for Amplified Biosensing. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 38931-38946.	8.0	59
32	DNA Hairpins and Dumbbell-Wheel Transitions Amplified Walking Nanomachine for Ultrasensitive Nucleic Acid Detection. <i>ACS Nano</i> , 2022, 16, 4726-4733.	14.6	56
33	Electrochemical detection of arsenic contamination based on hybridization chain reaction and RecJf exonuclease-mediated amplification. <i>Chemical Engineering Journal</i> , 2018, 353, 305-310.	12.7	55
34	Cascade Strand Displacement and Bipedal Walking Based DNA Logic System for miRNA Diagnostics. <i>ACS Central Science</i> , 2021, 7, 1036-1044.	11.3	55
35	A plasmonic colorimetric strategy for visual miRNA detection based on hybridization chain reaction. <i>Scientific Reports</i> , 2016, 6, 32219.	3.3	43
36	Color Space Transformation-Based Smartphone Algorithm for Colorimetric Urinalysis. <i>ACS Omega</i> , 2018, 3, 12141-12146.	3.5	42

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37	An aptasensor for detection of potassium ions based on RecJ <sub>f</sub> exonuclease mediated signal amplification. <i>Analyst, The</i> , 2014, 139, 5695-5699.	3.5	41
38	A colorimetric aptasensor for the antibiotics oxytetracycline and kanamycin based on the use of magnetic beads and gold nanoparticles. <i>Mikrochimica Acta</i> , 2018, 185, 548.	5.0	40
39	Adamantane Derivatives Functionalized Gold Nanoparticles for Colorimetric Detection of MiRNA. <i>Particle and Particle Systems Characterization</i> , 2017, 34, 1600405.	2.3	39
40	A highly sensitive gold nanoparticle-based electrochemical aptasensor for theophylline detection. <i>Analytica Chimica Acta</i> , 2018, 999, 54-59.	5.4	39
41	Altered Gene expression of ABC transporters, nuclear receptors and oxidative stress signaling in zebrafish embryos exposed to CdTe quantum dots. <i>Environmental Pollution</i> , 2019, 244, 588-599.	7.5	39
42	Electrochemical impedance spectroscopy study of proteolysis using unmodified gold nanoparticles. <i>Electrochemistry Communications</i> , 2014, 47, 21-24.	4.7	38
43	Hand-in-hand RNA nanowire-based aptasensor for the detection of theophylline. <i>Biosensors and Bioelectronics</i> , 2018, 101, 153-158.	10.1	38
44	DNA-Functionalized Porous Fe <sub>3</sub> O <sub>4</sub> Nanoparticles for the Construction of Self-Powered miRNA Biosensor with Target Recycling Amplification. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 36796-36804.	8.0	38
45	Electrochemical sensing of attomolar miRNA combining cascade strand displacement polymerization and reductant-mediated amplification. <i>Chemical Communications</i> , 2018, 54, 7366-7369.	4.1	38
46	A multipedal DNA walker for amplified detection of tumor exosomes. <i>Chemical Communications</i> , 2020, 56, 4982-4985.	4.1	38
47	Manipulations of DNA four-way junction architecture and DNA modified Fe <sub>3</sub> O <sub>4</sub> @Au nanomaterials for the detection of miRNA. <i>Sensors and Actuators B: Chemical</i> , 2020, 313, 128015.	7.8	37
48	Bright carbon nanodots for miRNA diagnostics coupled with concatenated hybridization chain reaction. <i>Chemical Communications</i> , 2020, 56, 1175-1178.	4.1	36
49	Preparation of silver nanoparticles/graphene nanosheets as a catalyst for electrochemical oxidation of methanol. <i>Applied Physics Letters</i> , 2014, 104, .	3.3	34
50	An electrochemical biosensor for clenbuterol detection and pharmacokinetics investigation. <i>Talanta</i> , 2013, 113, 36-40.	5.5	33
51	Electrochemical detection of aqueous Ag <sup>+</sup> based on Ag <sup>+</sup> -assisted ligation reaction. <i>Scientific Reports</i> , 2015, 5, 9161.	3.3	33
52	Colorimetric theophylline aggregation assay using an RNA aptamer and non-crosslinking gold nanoparticles. <i>Mikrochimica Acta</i> , 2018, 185, 33.	5.0	33
53	Poly(thymine)-Templated Selective Formation of Copper Nanoparticles for Alkaline Phosphatase Analysis Aided by Alkyne-Azide Cycloaddition-Click-Reaction. <i>ACS Applied Nano Materials</i> , 2018, 1, 168-174.	5.0	33
54	Electrochemical sensing strategies for the detection of endotoxin: a review. <i>RSC Advances</i> , 2013, 3, 9606.	3.6	31

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55	Electrochemical tracking hydrogen peroxide secretion in live cells based on autocatalytic oxidation reaction of silver nanoparticles. <i>Electrochemistry Communications</i> , 2015, 53, 37-40.	4.7	31
56	Nuclease assisted target recycling and spherical nucleic acids gold nanoparticles recruitment for ultrasensitive detection of microRNA. <i>Electrochimica Acta</i> , 2016, 190, 396-401.	5.2	31
57	Fabrication of Polymeric Ferrocene Nanoparticles for Electrochemical Aptasensing of Protein with Target-Catalyzed Hairpin Assembly. <i>Analytical Chemistry</i> , 2019, 91, 9940-9945.	6.5	30
58	Light-triggered multifunctional nanoplatform for efficient cancer photo-immunotherapy. <i>Journal of Nanobiotechnology</i> , 2022, 20, 181.	9.1	30
59	Peptide-based electrochemical approach for apoptosis evaluation. <i>Biosensors and Bioelectronics</i> , 2014, 62, 97-101.	10.1	29
60	ABC transporters affect the elimination and toxicity of CdTe quantum dots in liver and kidney cells. <i>Toxicology and Applied Pharmacology</i> , 2016, 303, 11-20.	2.8	29
61	Chameleon silver nanoclusters for ratiometric sensing of miRNA. <i>Sensors and Actuators B: Chemical</i> , 2019, 297, 126788.	7.8	29
62	Silver nanoparticle@DNA tetrahedron-based colorimetric detection of HIV-related DNA with cascade strand displacement amplification. <i>Journal of Materials Chemistry B</i> , 2019, 7, 2608-2612.	5.8	29
63	Synergistic Chemo-thermal Therapy of Cancer by DNA-Templated Silver Nanoclusters and Polydopamine Nanoparticles. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 21653-21660.	8.0	29
64	The use of mrp1-deficient ( <i>Danio rerio</i> ) zebrafish embryos to investigate the role of Mrp1 in the toxicity of cadmium chloride and benzo[a]pyrene. <i>Aquatic Toxicology</i> , 2017, 186, 123-133.	4.0	28
65	Voltammetric determination of tumor necrosis factor- $\alpha$ based on the use of an aptamer and magnetic nanoparticles loaded with gold nanoparticles. <i>Mikrochimica Acta</i> , 2017, 184, 3901-3907.	5.0	28
66	A highly selective fluorescent probe for cyanide ion and its detection mechanism from theoretical calculations. <i>Talanta</i> , 2018, 185, 1-6.	5.5	28
67	Triple-Input Molecular AND Logic Gates for Sensitive Detection of Multiple miRNAs. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 41157-41164.	8.0	28
68	Two-Dimensional Hybridization Chain Reaction Strategy for Highly Sensitive Analysis of Intracellular mRNA. <i>Analytical Chemistry</i> , 2020, 92, 12700-12709.	6.5	28
69	Colorimetric sensing strategy for heparin assay based on PDDA-induced aggregation of gold nanoparticles. <i>Nanoscale Advances</i> , 2019, 1, 486-489.	4.6	27
70	Ratiometric Electrochemical Switch for Circulating Tumor DNA through Recycling Activation of Blocked DNAzymes. <i>Analytical Chemistry</i> , 2022, 94, 2779-2784.	6.5	27
71	An electrochemical approach capable of prostate specific antigen assay in human serum based on exonuclease-aided target recycling amplification. <i>Sensors and Actuators B: Chemical</i> , 2018, 257, 1021-1026.	7.8	26
72	Hydrothermal synthesis of N,S co-doped carbon nanodots for highly selective detection of living cancer cells. <i>Journal of Materials Chemistry B</i> , 2018, 6, 5775-5780.	5.8	26

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73	Identification of glutathione by voltammetric analysis with rolling circle amplification. <i>Analytica Chimica Acta</i> , 2016, 943, 58-63.	5.4	25
74	Facile Strategy for Electrochemical Analysis of Hydrogen Peroxide Based on Multifunctional Fe <sub>3</sub> O <sub>4</sub> @Ag Nanocomposites. <i>ACS Applied Bio Materials</i> , 2018, 1, 367-373.	4.6	25
75	FRET investigation toward DNA tetrahedron-based ratiometric analysis of intracellular telomerase activity. <i>Journal of Materials Chemistry B</i> , 2019, 7, 1926-1932.	5.8	25
76	DNA-MnO <sub>2</sub> Nanoconjugates Investigation and Application for Electrochemical Polymerase Chain Reaction. <i>Analytical Chemistry</i> , 2022, 94, 4565-4569.	6.5	25
77	One-step synthesis of nitrogen, sulfur co-doped carbon nanodots and application for Fe <sup>3+</sup> detection. <i>Journal of Materials Chemistry B</i> , 2018, 6, 3549-3554.	5.8	24
78	Electrochemical investigation of endotoxin induced limulus amoebocyte lysate gel-clot process. <i>Electrochemistry Communications</i> , 2013, 26, 29-32.	4.7	23
79	Electrochemical Determination of Ca <sup>2+</sup> Based On Recycling Formation of Highly Selective DNAzyme and Gold Nanoparticle-Mediated Amplification. <i>Bioconjugate Chemistry</i> , 2018, 29, 1021-1024.	3.6	23
80	A Yellow Fluorescence Probe for the Detection of Oxidized Glutathione and Biological Imaging. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 17119-17127.	8.0	23
81	Gold Nanoparticles-Based DNA Logic Gate for miRNA Inputs Analysis Coupling Strand Displacement Reaction and Hybridization Chain Reaction. <i>Particle and Particle Systems Characterization</i> , 2018, 35, 1700326.	2.3	22
82	A polymyxin B-silver nanoparticle colloidal system and the application of lipopolysaccharide analysis. <i>Analyst</i> , 2018, 143, 1053-1058.	3.5	22
83	Ultrasensitive Detection of DNA Based on Exonuclease III-Assisted Recycling Amplification and DNAzyme Motor. <i>Bioconjugate Chemistry</i> , 2018, 29, 3527-3531.	3.6	22
84	One-pot synthesis of GSH-Capped CdTe quantum dots with excellent biocompatibility for direct cell imaging. <i>Heliyon</i> , 2018, 4, e00576.	3.2	21
85	Tetrahedral DNA mediated direct quantification of exosomes by contact-electrification effect. <i>Nano Energy</i> , 2022, 92, 106781.	16.0	21
86	Tetrahedral DNA Supported Walking Nanomachine for Ultrasensitive miRNA Detection in Cancer Cells and Serums. <i>Analytical Chemistry</i> , 2022, 94, 9975-9980.	6.5	21
87	Highly sensitive microRNA quantification with zero background signal from silver nanoparticles. <i>Electrochemistry Communications</i> , 2015, 51, 89-92.	4.7	20
88	Ultrasensitive electrochemical detection of miRNA based on DNA strand displacement polymerization and Ca <sup>2+</sup> -dependent DNAzyme cleavage. <i>Analyst</i> , 2018, 143, 5352-5357.	3.5	20
89	Ratiometric Electrochemical Sensing Strategy for the Ultrasensitive Detection of Telomerase Activity. <i>ChemElectroChem</i> , 2019, 6, 2000-2003.	3.4	20
90	Ultrasensitive electrochemical detection of miRNA coupling tetrahedral DNA modified gold nanoparticles tags and catalyzed hairpin assembly. <i>Analytica Chimica Acta</i> , 2021, 1165, 338543.	5.4	20

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91	Cascade Toehold-Mediated Strand Displacement Reaction for Ultrasensitive Detection of Exosomal MicroRNA. <i>CCS Chemistry</i> , 2021, 3, 2331-2339.	7.8	20
92	Electrochemical aptasensors for detection of small molecules, macromolecules, and cells. <i>Reviews in Analytical Chemistry</i> , 2016, 35, 201-211.	3.2	19
93	Ratiometric fluorescence method for ctDNA analysis based on the construction of a DNA four-way junction. <i>Analyst</i> , The, 2020, 145, 1174-1178.	3.5	19
94	Preparation of a Peptide-Modified Electrode for Capture and Voltammetric Determination of Endotoxin. <i>ACS Omega</i> , 2017, 2, 2469-2473.	3.5	18
95	Highly Sensitive Electrochemical Sensor for an miR-200c Assay Based on Ligation-Assisted DNA Strand Displacements. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 9257-9263.	6.7	18
96	DNA Dumbbell and Chameleon Silver Nanoclusters for miRNA Logic Operations. <i>Research</i> , 2020, 2020, 1091605.	5.7	18
97	A PCR-free voltammetric telomerase activity assay using a substrate primer on a gold electrode and DNA-triggered capture of gold nanoparticles. <i>Mikrochimica Acta</i> , 2018, 185, 398.	5.0	17
98	Ultrasensitive assay of ctDNA based on DNA triangular prism and three-way junction nanostructures. <i>Chinese Chemical Letters</i> , 2021, 32, 783-786.	9.0	17
99	Three-dimensional bipedal DNA walker enabled logic gates responding to telomerase and miRNA. <i>Chemical Communications</i> , 2021, 57, 2629-2632.	4.1	17
100	Measurement of Intracellular pH Changes Based on DNA-Templated Capsid Protein Nanotubes. <i>Analytical Chemistry</i> , 2014, 86, 8042-8047.	6.5	16
101	Apoptosis Evaluation by Electrochemical Techniques. <i>Chemistry - an Asian Journal</i> , 2016, 11, 632-641.	3.3	16
102	A Peptide-Based Electrochemical Biosensor for Facile Measurement of Whole Blood Heparin. <i>ChemElectroChem</i> , 2017, 4, 472-475.	3.4	16
103	Star trigon structure-aided DNA walker for amplified electrochemical detection of DNA. <i>Electrochemistry Communications</i> , 2019, 99, 51-55.	4.7	16
104	Duplex-specific nuclease assisted miRNA assay based on gold and silver nanoparticles co-decorated on electrode interface. <i>Analytica Chimica Acta</i> , 2020, 1107, 23-29.	5.4	16
105	Individual and joint toxic effects of cadmium sulfate and 1±-naphthoflavone on the development of zebrafish embryo. <i>Journal of Zhejiang University: Science B</i> , 2014, 15, 766-775.	2.8	15
106	Effects of single-stage syngas hydrotreating on the physical and chemical properties of oxidized fractionated bio-oil. <i>Fuel</i> , 2017, 209, 634-642.	6.4	15
107	Copper (II)-poly-L-histidine functionalized multi walled carbon nanotubes as efficient mimetic enzyme for sensitive electrochemical detection of salvianic acid A. <i>Biosensors and Bioelectronics</i> , 2018, 121, 257-264.	10.1	15
108	Electrochemical detection of T4 polynucleotide kinase based on target-assisted ligation reaction coupled with silver nanoparticles. <i>Analytica Chimica Acta</i> , 2019, 1085, 85-90.	5.4	15

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109	Non-doped and non-modified carbon dots with high quantum yield for the chemosensing of uric acid and living cell imaging. <i>Analytica Chimica Acta</i> , 2022, 1199, 339571.	5.4	15
110	Electrochemical Analysis of Proteins and Cells. <i>Springer Briefs in Molecular Science</i> , 2013, , .	0.1	14
111	Functional expressions of adenosine triphosphate-binding cassette transporters during the development of zebrafish embryos and their effects on the detoxification of cadmium chloride and 2-naphthoflavone. <i>Journal of Applied Toxicology</i> , 2016, 36, 925-935.	2.8	14
112	A ratiometric electrochemical assay for human 8-oxoguanine DNA glycosylase amplified by hybridization chain reaction. <i>Electrochemistry Communications</i> , 2019, 103, 37-41.	4.7	14
113	Highly Sensitive Genosensing Coupling Rolling Circle Amplification with Multiple DNAzyme Cores for DNA Walking. <i>Bioconjugate Chemistry</i> , 2020, 31, 764-769.	3.6	14
114	A highly sensitive aptasensor for the detection of prostate specific antigen based on dumbbell hybridization chain reaction. <i>Sensors and Actuators B: Chemical</i> , 2021, 340, 129952.	7.8	14
115	Theoretical Background of Electrochemical Analysis. <i>Springer Briefs in Molecular Science</i> , 2013, , 5-18.	0.1	14
116	Exonuclease and Nicking Endonuclease-Assisted Amplified Electrochemical Detection of Coralyne. <i>ChemElectroChem</i> , 2017, 4, 1828-1831.	3.4	13
117	Highly Sensitive Endotoxin Assay Combining Peptide/Graphene Oxide and DNA-Modified Gold Nanoparticles. <i>ACS Omega</i> , 2019, 4, 14312-14316.	3.5	13
118	Electrochemical aptasensor based on a potassium ion-triggered DNA conformation transition and self-assembly on an electrode. <i>New Journal of Chemistry</i> , 2019, 43, 7928-7931.	2.8	13
119	Analogue of Melanotan II (MTII): A Novel Melanotropin with Superpotent Action on Frog Skin. <i>Protein and Peptide Letters</i> , 2015, 22, 762-766.	0.9	13
120	Construction of fluorescence logic gates responding to telomerase and miRNA based on DNA-templated silver nanoclusters and the hybridization chain reaction. <i>Nanoscale</i> , 2022, 14, 612-616.	5.6	13
121	Peptide and carbon nanotubes assisted detection of apoptosis by square wave voltammetry. <i>Electrochimica Acta</i> , 2016, 199, 142-146.	5.2	12
122	A quartz crystal microbalance sensor for endotoxin assay by monitoring limulus amoebocyte lysate protease reaction. <i>Analytica Chimica Acta</i> , 2017, 961, 106-111.	5.4	12
123	Glycyl-His tripeptide- and silver nanoparticle-assisted electrochemical evaluation of copper(II) ions in aqueous environment. <i>New Journal of Chemistry</i> , 2018, 42, 14733-14737.	2.8	12
124	Layered Double Hydroxide Engineering for the Photocatalytic Conversion of Inactive Carbon and Nitrogen Molecules. <i>ACS ES&amp;T Engineering</i> , 2022, 2, 1088-1102.	7.6	12
125	Photodynamic Effect of Hypericin on the Conformation and Catalytic Activity of Hemoglobin. <i>International Journal of Molecular Sciences</i> , 2008, 9, 145-153.	4.1	11
126	An elastography analytical method for the rapid detection of endotoxin. <i>Analyst</i> , 2015, 140, 4374-4378.	3.5	11



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127	Fabrication of Multi-functionalized Gold Nanoparticles and the Application to Electrochemical Detection of Nitrite. <i>Current Nanoscience</i> , 2011, 7, 354-358.	1.2	10
128	Highly Sensitive Detection of Silver Ions Enabled by Rec <sub>f</sub> Exonuclease Cleavage and Reductant-Mediated Electrochemical Amplification. <i>ChemElectroChem</i> , 2016, 3, 1737-1740.	3.4	10
129	Construction of a specific binding peptide based electrochemical approach for sensitive detection of Zn <sup>2+</sup> . <i>Journal of Electroanalytical Chemistry</i> , 2016, 783, 304-307.	3.8	10
130	DNA-templated copper nanoparticles for voltammetric analysis of endonuclease activity. <i>Analyst, The</i> , 2018, 143, 1685-1690.	3.5	10
131	A novel mode of DNA assembly at electrode and its application to protein quantification. <i>Analytica Chimica Acta</i> , 2018, 1029, 24-29.	5.4	10
132	Carbon Nanodot-Based Fluorescent Method for Virus DNA Analysis with Isothermal Strand Displacement Amplification. <i>Particle and Particle Systems Characterization</i> , 2019, 36, 1900273.	2.3	10
133	One-step synthesis of acriflavine-based carbon dots for adenine detection and a theoretical study on the detection mechanism. <i>Microchemical Journal</i> , 2019, 148, 73-78.	4.5	10
134	Electrochemical impedance spectroscopic analysis of nucleic acids through DNA tetrahedron self-walking machine. <i>Electrochemistry Communications</i> , 2019, 101, 1-5.	4.7	10
135	Red-emissive carbon nanodots for highly sensitive ferric(III) ion sensing and intracellular imaging. <i>Analyst, The</i> , 2021, 146, 6450-6454.	3.5	10
136	Identification of Cellular MicroRNA Coupling Strand Displacement Polymerization and Nicking-Endonuclease-Based Cleavage. <i>ChemPlusChem</i> , 2015, 80, 1712-1715.	2.8	9
137	Nanoarchitected Electrochemical Cytosensor for Selective Detection of Cancer Cells. <i>ChemistrySelect</i> , 2016, 1, 1515-1517.	1.5	9
138	Preparation and assembly of collagen-DNA complex on an electrode surface and its application to protein analysis. <i>Electrochimica Acta</i> , 2013, 111, 499-503.	5.2	8
139	Study of autocatalytic oxidation reaction of silver nanoparticles and the application for nonenzymatic H <sub>2</sub> O <sub>2</sub> assay. <i>Chemical Physics Letters</i> , 2015, 635, 213-216.	2.6	8
140	Rapid baculovirus titration assay based on viable cell side scatter (SSC). <i>Analytica Chimica Acta</i> , 2015, 879, 58-62.	5.4	8
141	Developing a capillary electrophoresis based method for dynamically monitoring enzyme cleavage activity using quantum dots-peptide assembly. <i>Electrophoresis</i> , 2017, 38, 2530-2535.	2.4	8
142	Role of Tripodal DNA Modified Gold Nanoparticles in Colorimetric Aptasensing. <i>Colloids and Interface Science Communications</i> , 2017, 21, 19-21.	4.1	8
143	Theoretical Study on the Photoinduced Electron Transfer Mechanisms of Different Peroxynitrite Probes. <i>Journal of Physical Chemistry A</i> , 2018, 122, 217-223.	2.5	8
144	Ultrasensitive Detection of ctDNA by Target-Mediated In Situ Growth of DNA Three-Way Junction on the Electrode. <i>ChemElectroChem</i> , 2020, 7, 64-68.	3.4	8

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145	A CE-FL based method for real-time detection of in-capillary self-assembly of the nanoconjugates of polycysteine ligand and quantum dots. <i>Nanotechnology</i> , 2018, 29, 274001.	2.6	7
146	Tetrahedral DNA Nanoconjugates for Simultaneous Measurement of Telomerase Activity and miRNA. <i>ChemBioChem</i> , 2021, 22, 1302-1306.	2.6	7
147	A novel method to investigate ribonuclease activity of Dicer by square wave voltammetry. <i>Electrochemistry Communications</i> , 2013, 34, 142-145.	4.7	6
148	DNA tetrahedron and star trigon nanostructures for target recycling detection of nucleic acid. <i>Analyst</i> , The, 2016, 141, 3239-3241.	3.5	6
149	An ultrasensitive aptasensor for prostate specific antigen assay based on Exonuclease T-aided cyclic cleavage. <i>Science China Chemistry</i> , 2018, 61, 393-396.	8.2	6
150	DNA-MnO <sub>2</sub> Nanoconjugates for the Electrochemical Determination of Circulating Tumor DNA with T7 Exonuclease-Catalyzed Amplification. <i>ACS Applied Nano Materials</i> , 2022, 5, 8735-8740.	5.0	5
151	Isothermal amplification detection of miRNA based on the catalysis of nucleases and voltammetric characteristics of silver nanoparticles. <i>Molecular BioSystems</i> , 2016, 12, 3550-3555.	2.9	4
152	An Electrochemiluminescent Platform for Living Cell Oxygen Metabolism Monitoring. <i>Journal of Analysis and Testing</i> , 2018, 2, 184-189.	5.1	4
153	Fluorescence Turn-On Analysis of Trace Protein Based on Carbon Nanodots and Hybridization Chain Reaction. <i>Particle and Particle Systems Characterization</i> , 2020, 37, 1900488.	2.3	4
154	Trace miRNA Assay Based on DNA Nanostructures Formed by Hybridization Chain Reaction and Gold Nanoparticle Tags. <i>ChemElectroChem</i> , 2021, 8, 2778-2782.	3.4	4
155	Study of the Interaction Between Graphene Oxide and Surface-confined Biomolecules to Develop New Kind of Biosensors. <i>Current Nanoscience</i> , 2014, 10, 801-806.	1.2	4
156	Enhanced and tunable oxygen carrier and amperometric sensor based on a glassy carbon electrode assembly of a hemoglobin-chitosan-Fe <sub>3</sub> O <sub>4</sub> composite. <i>Mikrochimica Acta</i> , 2017, 184, 1437-1444.	5.0	3
157	Proximity aptasensor for protein detection based on an enzyme-free amplification strategy. <i>Molecular BioSystems</i> , 2017, 13, 1936-1939.	2.9	3
158	Protein-gold nanoparticles interactions and its application for alkaline phosphatase assay. <i>Micro and Nano Letters</i> , 2012, 7, 914-917.	1.3	2
159	Electrochemical Analysis of Proteins. <i>Springer Briefs in Molecular Science</i> , 2013, , 19-42.	0.1	2
160	Highly sensitive amperometric biosensor based on AP@Hb for the detection of 1-pyrene butyric acid. <i>Sensors and Actuators B: Chemical</i> , 2017, 250, 139-146.	7.8	2
161	TNF- $\alpha$ responsive DNA star trigon formation from four hairpin probes and the analytical application. <i>Science China Chemistry</i> , 2017, 60, 405-409.	8.2	2
162	Preparation of a novel iron cryptate as an electrochemical probe for biosensing. <i>Electrochemistry Communications</i> , 2019, 98, 92-95.	4.7	2

#	ARTICLE	IF	CITATIONS
163	Identification of Cellular MicroRNA Coupling Strand Displacement Polymerization and Nicking-Endonuclease-Based Cleavage. <i>ChemPlusChem</i> , 2015, 80, 1699-1699.	2.8	1
164	Porous Magnetic Nanoparticles-Based Electrochemical Biosensor for Determination of Mercury in the Aquatic Environment. <i>Particle and Particle Systems Characterization</i> , 2020, 37, 2000074.	2.3	1
165	Ilexsaponin A1: In vitro metabolites identification and evaluation of inhibitory drug-drug interactions. <i>Drug Metabolism and Pharmacokinetics</i> , 2021, 40, 100415.	2.2	1
166	Fluorescence DNA Switch for Highly Sensitive Detection of miRNA Amplified by Duplex-Specific Nuclease. <i>Sensors</i> , 2022, 22, 3252.	3.8	1
167	Hand-in-hand structured DNA monolayer for dual-mode analysis of circulating tumor DNA. <i>Chemical Engineering Journal</i> , 2022, 450, 138069.	12.7	1
168	Electrochemical Analysis of Cells. <i>Springer Briefs in Molecular Science</i> , 2013, , 43-69.	0.1	0
169	Multiplexed microRNA TG-FRET assay with isothermal and amplification-free single-step. <i>Science China Materials</i> , 2015, 58, 852-853.	6.3	0
170	Novel Electrochemical Biosensor for Apoptosis Evaluation. <i>Methods in Pharmacology and Toxicology</i> , 2016, , 179-191.	0.2	0