

# Zhiqiang Gao

## List of Publications by Year in descending order

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195  
papers

14,634  
citations

29994

54  
h-index

20307

116  
g-index

204  
all docs

204  
docs citations

204  
times ranked

18440  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Carbon quantum dots and their applications. <i>Chemical Society Reviews</i> , 2015, 44, 362-381.   | 18.7 | 3,811     |
| 2  | Progress in Exosome Isolation Techniques. <i>Theranostics</i> , 2017, 7, 789-804.  | 4.6  | 1,279     |
| 3  | A Miniature Biofuel Cell. <i>Journal of the American Chemical Society</i> , 2001, 123, 8630-8631.  | 6.6  | 431       |
| 4  | Silicon Nanowire Arrays for Label-Free Detection of DNA. <i>Analytical Chemistry</i> , 2007, 79, 3291-3297.  | 3.2  | 410       |
| 5  | All-solid-state sodium-selective electrode based on a calixarene ionophore in a poly(vinyl chloride) membrane with a polypyrrole solid contact. <i>Analytical Chemistry</i> , 1992, 64, 2496-2501. | 3.2  | 402       |
| 6  | DNA Sensing by Silicon Nanowire: Charge Layer Distance Dependence. <i>Nano Letters</i> , 2008, 8, 1066-1070.   | 4.5  | 267       |
| 7  | Enzyme Mimics: Advances and Applications. <i>Chemistry - A European Journal</i> , 2016, 22, 8404-8430.   | 1.7  | 253       |
| 8  | Detection of MicroRNAs Using Target-Guided Formation of Conducting Polymer Nanowires in Nanogaps. <i>Journal of the American Chemical Society</i> , 2007, 129, 5437-5443.                          | 6.6  | 213       |
| 9  | Nanoparticles in biomolecular detection. <i>Nano Today</i> , 2006, 1, 28-37.   | 6.2  | 209       |
| 10 | A Highly Sensitive and Selective Electrochemical Biosensor for Direct Detection of MicroRNAs in Serum. <i>Analytical Chemistry</i> , 2013, 85, 4784-4789.  | 3.2  | 199       |
| 11 | Detection of MicroRNAs Using Electrocatalytic Nanoparticle Tags. <i>Analytical Chemistry</i> , 2006, 78, 1470-1477.  | 3.2  | 189       |
| 12 | Corrosion Protection of Copper by a Self-Assembled Monolayer of Alkanethiol. <i>Journal of the Electrochemical Society</i> , 1997, 144, 55-64.   | 1.3  | 180       |
| 13 | Nanostructure-based electrical biosensors. <i>Nano Today</i> , 2009, 4, 318-334.   | 6.2  | 163       |
| 14 | Strong Red-Emitting near-Infrared-to-Visible Upconversion Fluorescent Nanoparticles. <i>Chemistry of Materials</i> , 2011, 23, 2729-2734.  | 3.2  | 163       |
| 15 | Bioanalytical applications of isothermal nucleic acid amplification techniques. <i>Analytica Chimica Acta</i> , 2015, 853, 30-45.  | 2.6  | 160       |
| 16 | Metal-organic frameworks in fuel cell technologies. <i>Nano Today</i> , 2013, 8, 577-597.  | 6.2  | 152       |
| 17 | A Highly Sensitive Plasmonic DNA Assay Based on Triangular Silver Nanoprism Etching. <i>ACS Nano</i> , 2014, 8, 4902-4907.   | 7.3  | 142       |
| 18 | Gold Nanoparticle-Enabled Real-Time Ligation Chain Reaction for Ultrasensitive Detection of DNA. <i>Journal of the American Chemical Society</i> , 2012, 134, 14678-14681.                         | 6.6  | 132       |

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 19 | Simultaneous determination of dopamine, uric acid and ascorbic acid at an ultrathin film modified gold electrode. <i>Chemical Communications</i> , 1998, , 2107-2108.   | 2.2  | 121       |
| 20 | A Label-Free Biosensor for Electrochemical Detection of Femtomolar MicroRNAs. <i>Analytical Chemistry</i> , 2013, 85, 1624-1630.  | 3.2  | 121       |
| 21 | Applications of metal-organic frameworks as stationary phases in chromatography. <i>TrAC - Trends in Analytical Chemistry</i> , 2013, 50, 33-41.  | 5.8  | 117       |
| 22 | Mechanism of ionic and redox sensitivity of p-type conducting polymers. <i>Journal of Electroanalytical Chemistry</i> , 1994, 368, 33-41.   | 1.9  | 112       |
| 23 | Electrodeposition of Redox Polymers and Co-Electrodeposition of Enzymes by Coordinative Crosslinking This research was supported by the Welch Foundation and by the US Army Research Laboratory.. <i>Angewandte Chemie - International Edition</i> , 2002, 41, 810. | 7.2  | 111       |
| 24 | Amplified Detection of MicroRNA Based on Ruthenium Oxide Nanoparticle-Initiated Deposition of an Insulating Film. <i>Analytical Chemistry</i> , 2011, 83, 820-827.  | 3.2  | 104       |
| 25 | Plasmonic nanoparticles in biomedicine. <i>Nano Today</i> , 2016, 11, 168-188.  | 6.2  | 104       |
| 26 | Facile and Controllable Loading of Single-Stranded DNA on Gold Nanoparticles. <i>Analytical Chemistry</i> , 2009, 81, 8523-8528.  | 3.2  | 99        |
| 27 | Partially Reduced Holey Graphene Oxide as High Performance Anode for Sodium-Ion Batteries. <i>Advanced Energy Materials</i> , 2019, 9, 1803215.   | 10.2 | 96        |
| 28 | Electrochemical and spectroscopic studies of cobalt-hexacyanoferrate film modified electrodes. <i>Electrochimica Acta</i> , 1991, 36, 147-152.  | 2.6  | 90        |
| 29 | The influence of overoxidation treatment on the permeability of polypyrrole films. <i>Journal of Electroanalytical Chemistry</i> , 1994, 373, 141-148.  | 1.9  | 86        |
| 30 | Amperometric Detection of Nucleic Acid at Femtomolar Levels with a Nucleic Acid/Electrochemical Activator Bilayer on Gold Electrode. <i>Analytical Chemistry</i> , 2004, 76, 1611-1617.   | 3.2  | 86        |
| 31 | Direct labeling microRNA with an electrocatalytic moiety and its application in ultrasensitive microRNA assays. <i>Biosensors and Bioelectronics</i> , 2007, 22, 933-940.   | 5.3  | 85        |
| 32 | A highly sensitive microRNA biosensor based on ruthenium oxide nanoparticle-initiated polymerization of aniline. <i>Chemical Communications</i> , 2010, 46, 9131.   | 2.2  | 85        |
| 33 | Dithia-Crown-Annulated Tetrathiafulvalene Disulfides: Synthesis, Electrochemistry, Self-Assembled Films, and Metal Ion Recognition. <i>Journal of Organic Chemistry</i> , 2000, 65, 3292-3298.  | 1.7  | 83        |
| 34 | A high performance polysiloxane-based single ion conducting polymeric electrolyte membrane for application in lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2015, 3, 20267-20276.  | 5.2  | 83        |
| 35 | Determination of ascorbic acid in a mixture of ascorbic acid and uric acid at a chemically modified electrode. <i>Analytica Chimica Acta</i> , 1997, 343, 49-57.  | 2.6  | 82        |
| 36 | Ultrasensitive Electrochemical DNA Biosensors Based on the Detection of a Highly Characteristic Solid-State Process. <i>Small</i> , 2009, 5, 1414-1417.   | 5.2  | 80        |

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|----|--|------|-----------|
| 37 | The hybridization chain reaction in the development of ultrasensitive nucleic acid assays. <i>TrAC - Trends in Analytical Chemistry</i> , 2015, 64, 86-99.   | 5.8  | 79        |
| 38 | A DNA biosensor based on the detection of doxorubicin-conjugated Ag nanoparticle labels using solid-state voltammetry. <i>Biosensors and Bioelectronics</i> , 2009, 25, 282-287.   | 5.3  | 77        |
| 39 | Electrochemical behaviour of dopamine and ascorbic acid at overoxidized polypyrrole(dodecyl) Tj ETQq1 1 0.784314 rgBT /Overlock 1  | 2.6  | 72        |
| 40 | Improving the Specific Capacity and Cyclability of Sodium-Ion Batteries by Engineering a Dual-Carbon Phase-Modified Amorphous and Mesoporous Iron Phosphide. <i>ChemElectroChem</i> , 2016, 3, 1054-1062.  | 1.7  | 70        |
| 41 | An interference-free glucose biosensor based on a novel low potential redox polymer mediator. <i>Sensors and Actuators B: Chemical</i> , 2014, 191, 522-528.   | 4.0  | 69        |
| 42 | Template-free formation of carbon nanotube-supported cobalt sulfide@carbon hollow nanoparticles for stable and fast sodium ion storage. <i>Journal of Power Sources</i> , 2017, 339, 41-50.  | 4.0  | 69        |
| 43 | A microfluidic-assisted microarray for ultrasensitive detection of miRNA under an optical microscope. <i>Lab on A Chip</i> , 2011, 11, 1886.   | 3.1  | 67        |
| 44 | Direct Detection of DNA with an Electrocatalytic Threading Intercalator. <i>Analytical Chemistry</i> , 2005, 77, 126-134.  | 3.2  | 66        |
| 45 | Synthesis and characterization of the hollandite-type MnO <sub>2</sub> as a cathode material in lithium batteries. <i>Electrochimica Acta</i> , 2000, 45, 2211-2217.   | 2.6  | 64        |
| 46 | Nanoparticulate Peroxidase/Catalase Mimetic and Its Application. <i>Chemistry - A European Journal</i> , 2012, 18, 8906-8911.  | 1.7  | 64        |
| 47 | Detection of Nucleic Acids Using Enzyme-Catalyzed Template-Guided Deposition of Polyaniline. <i>Advanced Materials</i> , 2007, 19, 602-606.  | 11.1 | 63        |
| 48 | Pt nanoparticle label-mediated deposition of Pt catalyst for ultrasensitive electrochemical immunosensors. <i>Biosensors and Bioelectronics</i> , 2010, 26, 418-423.   | 5.3  | 62        |
| 49 | MoS <sub>2</sub> nanosheets as an effective fluorescence quencher for DNA methyltransferase activity detection. <i>Analyst</i> , The, 2015, 140, 3210-3215.  | 1.7  | 62        |
| 50 | Enzyme-Based Colorimetric Detection of Nucleic Acids Using Peptide Nucleic Acid-Immobilized Microwell Plates. <i>Analytical Chemistry</i> , 2007, 79, 7192-7197.   | 3.2  | 61        |
| 51 | A highly sensitive and specific biosensor for ligation- and PCR-free detection of MicroRNAs. <i>Biosensors and Bioelectronics</i> , 2011, 26, 3768-3773.   | 5.3  | 60        |
| 52 | Coordination of mercury(II) to gold nanoparticle associated nitrotriazole towards sensitive colorimetric detection of mercuric ion with a tunable dynamic range. <i>Analyst</i> , The, 2011, 136, 1690.  | 1.7  | 59        |
| 53 | Low-Temperature Synthesized LiV <sub>3</sub> O <sub>8</sub> as a Cathode Material for Rechargeable Lithium Batteries. <i>Journal of the Electrochemical Society</i> , 1998, 145, 3057-3062.  | 1.3  | 58        |
| 54 | Enzyme-catalysed deposition of ultrathin silver shells on gold nanorods: a universal and highly efficient signal amplification strategy for translating immunoassay into a litmus-type test. <i>Chemical Communications</i> , 2015, 51, 6928-6931. | 2.2  | 57        |

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|----|---|-----|-----------|
| 55 | Mechanism of the oxidation of organic dyes in the presence of nanoceria. <i>Chemical Communications</i> , 2011, 47, 2916.   | 2.2 | 54        |
| 56 | DNA Methyltransferase Activity Assays: Advances and Challenges. <i>Theranostics</i> , 2016, 6, 369-391.   | 4.6 | 54        |
| 57 | A real-time colorimetric assay for label-free detection of microRNAs down to sub-femtomolar levels. <i>Chemical Communications</i> , 2013, 49, 4959.  | 2.2 | 53        |
| 58 | Electrical Detection of Oligonucleotide Using an Aggregate of Gold Nanoparticles as a Conductive Tag. <i>Analytical Chemistry</i> , 2008, 80, 9387-9394.  | 3.2 | 51        |
| 59 | Electrical detection of hybridization and threading intercalation of deoxyribonucleic acid using carbon nanotube network field-effect transistors. <i>Applied Physics Letters</i> , 2006, 89, 232104. | 1.5 | 50        |
| 60 | Highly Sensitive Electrochemical Methyltransferase Activity Assay. <i>Analytical Chemistry</i> , 2014, 86, 2117-2123.   | 3.2 | 50        |
| 61 | Self-assembled conducting polymer monolayers of poly(3-octylthiophene) on gold electrodes. <i>Synthetic Metals</i> , 1995, 75, 5-10.  | 2.1 | 47        |
| 62 | Mass-Produced Nanogap Sensor Arrays for Ultrasensitive Detection of DNA. <i>Journal of the American Chemical Society</i> , 2009, 131, 12211-12217.  | 6.6 | 47        |
| 63 | Electrochemical behaviour of polypyrrole film polymerized in indigo carmine solution. <i>Electrochimica Acta</i> , 1994, 39, 755-762.   | 2.6 | 46        |
| 64 | Voltammetric determination of dopamine in the presence of ascorbic acid at over-oxidized polypyrrole-indigo carmine film-coated electrodes. <i>Analyst</i> , 1994, 119, 459-464.                      | 1.7 | 46        |
| 65 | A microRNA biosensor based on direct chemical ligation and electrochemically amplified detection. <i>Sensors and Actuators B: Chemical</i> , 2007, 121, 552-559.                                      | 4.0 | 46        |
| 66 | Melamine-terephthalaldehyde-lithium complex: a porous organic network based single ion electrolyte for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2015, 3, 5132-5139.           | 5.2 | 46        |
| 67 | An ultrasensitive photoelectrochemical nucleic acid biosensor. <i>Nucleic Acids Research</i> , 2005, 33, e123-e123.   | 6.5 | 45        |
| 68 | Voltammetric Determination of Dopamine in a Mixture of Dopamine and Ascorbic Acid at a Deactivated Polythiophene Film Modified Electrode. <i>Analytical Sciences</i> , 1998, 14, 1059-1063.           | 0.8 | 43        |
| 69 | Optical Aptasensors for Adenosine Triphosphate. <i>Theranostics</i> , 2016, 6, 1683-1702.   | 4.6 | 43        |
| 70 | Electrochemical impedance spectroscopy of cobalt(II)-hexacyanoferrate film modified electrodes. <i>Electrochimica Acta</i> , 1993, 38, 379-385.   | 2.6 | 41        |
| 71 | Electrocatalytic Oxidation of Guanine, Guanosine, and Guanosine Monophosphate. <i>Biophysical Journal</i> , 2007, 92, L70-L72.  | 0.2 | 41        |
| 72 | An ultrasensitive homogeneous chemiluminescent assay for microRNAs. <i>Chemical Communications</i> , 2013, 49, 9401.  | 2.2 | 38        |

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|----|---|-----|-----------|
| 73 | Catalytic-adsorptive stripping voltammetric determination of molybdenum in plant foodstuffs. <i>Talanta</i> , 1996, 43, 719-726.  | 2.9 | 37        |
| 74 | Femtomol SPR detection of DNA-PNA hybridization with the assistance of DNA-guided polyaniline deposition. <i>Biosensors and Bioelectronics</i> , 2008, 23, 1715-1720.                                   | 5.3 | 37        |
| 75 | Electrocatalysis and flow-injection analysis of hydrogen peroxide at a chemically modified electrode. <i>Analytica Chimica Acta</i> , 1992, 259, 211-218.   | 2.6 | 36        |
| 76 | Electrochemical study of bilayer conducting polymers: Polypyrrole/polyaniline system. <i>Journal of Electroanalytical Chemistry</i> , 1994, 364, 127-133.   | 1.9 | 35        |
| 77 | Catalytic-adsorptive stripping voltammetric determination of chromium in environmental materials. <i>Electroanalysis</i> , 1996, 8, 602-606.  | 1.5 | 35        |
| 78 | A label-free microRNA biosensor based on DNAzyme-catalyzed and microRNA-guided formation of a thin insulating polymer film. <i>Biosensors and Bioelectronics</i> , 2013, 44, 171-176.                   | 5.3 | 35        |
| 79 | A highly sensitive microRNA biosensor based on hybridized microRNA-guided deposition of polyaniline. <i>Biosensors and Bioelectronics</i> , 2014, 60, 195-200.  | 5.3 | 35        |
| 80 | Differential pulse voltammetric determination of cobalt with a perfluorinated sulfonated polymer-2,2-bipyridyl modified carbon paste electrode. <i>Analytical Chemistry</i> , 1991, 63, 953-957.        | 3.2 | 34        |
| 81 | Highly sensitive and selective colorimetric genotyping of single-nucleotide polymorphisms based on enzyme-amplified ligation on magnetic beads. <i>Biosensors and Bioelectronics</i> , 2012, 36, 89-94. | 5.3 | 34        |
| 82 | Electrochemistry of ascorbic acid at polypyrrole/ dodecyl sulphate film-coated electrodes and its application. <i>Journal of Electroanalytical Chemistry</i> , 1994, 365, 197-205.                      | 1.9 | 33        |
| 83 | Genotyping and quantification techniques for single-nucleotide polymorphisms. <i>TrAC - Trends in Analytical Chemistry</i> , 2015, 69, 1-13.  | 5.8 | 33        |
| 84 | Voltammetric and amperometric determination of ascorbic acid at a chemically modified carbon fibre microelectrode. <i>Talanta</i> , 1993, 40, 399-403.  | 2.9 | 32        |
| 85 | Novel Alternating Comblike Copolymer Electrolytes with Single Lithium Ionic Conduction. <i>Chemistry of Materials</i> , 1998, 10, 1951-1957.  | 3.2 | 32        |
| 86 | Novel Method for Synthesis of $\beta$ -Lithium Vanadium Oxide as Cathode Materials in Lithium Ion Batteries. <i>Chemistry of Materials</i> , 1999, 11, 3086-3090.                                       | 3.2 | 31        |
| 87 | An Amperometric Biosensor for Glucose Based on Electrodeposited Redox Polymer/Glucose Oxidase Film on a Gold Electrode. <i>Analytical Sciences</i> , 2003, 19, 1259-1263.                               | 0.8 | 31        |
| 88 | Silver/Gold Core-Shell Nanoprism-Based Plasmonic Nanoprobes for Highly Sensitive and Selective Detection of Hydrogen Sulfide. <i>Chemistry - A European Journal</i> , 2015, 21, 988-992.                | 1.7 | 31        |
| 89 | Voltammetric determination of trace amounts of gold(III) with a carbon paste electrode modified with chelating resin. <i>Analytica Chimica Acta</i> , 1990, 232, 367-376.                               | 2.6 | 30        |
| 90 | Determination of trace amounts of nitrite by single-sweep polarography. <i>Analytica Chimica Acta</i> , 1990, 230, 105-112.   | 2.6 | 30        |

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|-----|---|-----|-----------|
| 91  | Tin-based oxide anode for lithium-ion batteries with low irreversible capacity. <i>Journal of Power Sources</i> , 1998, 75, 9-12.   | 4.0 | 30        |
| 92  | The development of electrochemical assays for microRNAs. <i>Electrochimica Acta</i> , 2014, 126, 19-30.   | 2.6 | 30        |
| 93  | Determination of trace amounts of silver with a chemically modified carbon paste electrode. <i>Analytica Chimica Acta</i> , 1990, 229, 213-219.   | 2.6 | 29        |
| 94  | Gold nanoparticle-based exonuclease III signal amplification for highly sensitive colorimetric detection of folate receptor. <i>Nanoscale</i> , 2014, 6, 3055-3058.                               | 2.8 | 29        |
| 95  | Metal Oxide Nanoparticles in Electroanalysis. <i>Electroanalysis</i> , 2015, 27, 2074-2090.   | 1.5 | 29        |
| 96  | Determination of iron(II) with chemically-modified carbon-paste electrodes. <i>Talanta</i> , 1991, 38, 1177-1184.   | 2.9 | 28        |
| 97  | Electrochemical study of copper-heptacyanonitrosylferrate film modified electrodes: Preparation, properties and applications. <i>Journal of Electroanalytical Chemistry</i> , 1993, 358, 161-176. | 1.9 | 28        |
| 98  | Highly sensitive sensors for alkali metal ions based on complementary-metal-oxide-semiconductor-compatible silicon nanowires. <i>Applied Physics Letters</i> , 2007, 90, 233903.                  | 1.5 | 27        |
| 99  | Permeability controllable overoxidised polypyrrole film modified glassy carbon electrodes. <i>Analytica Chimica Acta</i> , 1994, 286, 213-218.  | 2.6 | 26        |
| 100 | A highly sensitive and selective homogenous assay for profiling microRNA expression. <i>Biosensors and Bioelectronics</i> , 2014, 54, 650-655.  | 5.3 | 26        |
| 101 | A Nucleic Acid Biosensor for Gene Expression Analysis in Nanograms of mRNA. <i>Analytical Chemistry</i> , 2004, 76, 4023-4029.  | 3.2 | 25        |
| 102 | An ultrasensitive nucleic acid biosensor based on the catalytic oxidation of guanine by a novel redox threading intercalator. <i>Chemical Communications</i> , 2005, , 1064.                      | 2.2 | 25        |
| 103 | Direct Detection of Nucleic Acids by Tagging Phosphates on Their Backbones with Conductive Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 2051-2054.                 | 7.2 | 25        |
| 104 | A ferrofluid-based homogeneous assay for highly sensitive and selective detection of single-nucleotide polymorphisms. <i>Chemical Communications</i> , 2013, 49, 8114.                            | 2.2 | 25        |
| 105 | Synthesis of Hierarchically Porous Nitrogen-Doped Carbon for Sodium-Ion Batteries. <i>ChemElectroChem</i> , 2017, 4, 1059-1065.   | 1.7 | 25        |
| 106 | Sequence-Selective Recognition of Nucleic Acids under Extremely Low Salt Conditions Using Nanoparticle Probes. <i>Analytical Chemistry</i> , 2011, 83, 4090-4094.                                 | 3.2 | 24        |
| 107 | A highly sensitive electrochemical assay for microRNA expression profiling. <i>Analyst</i> , The, 2012, 137, 1674.  | 1.7 | 24        |
| 108 | Amperometric Determination of Ascorbic Acid at an Electrodeposited Redox Polymer Film Modified Gold Electrode. <i>Electroanalysis</i> , 2004, 16, 319-323.  | 1.5 | 23        |

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|-----|---|-----|-----------|
| 109 | A DNA biosensor based on a morpholino oligomer coated indium-tin oxide electrode and a cationic redox polymer. <i>Analyst, The</i> , 2009, 134, 952.  | 1.7 | 23        |
| 110 | Colorimetric detection of single-nucleotide polymorphisms with a real-time PCR-like sensitivity. <i>Chemical Communications</i> , 2012, 48, 10225.  | 2.2 | 23        |
| 111 | Rapid, sensitive and highly specific label-free fluorescence biosensor for microRNA by branched rolling circle amplification. <i>Sensors and Actuators B: Chemical</i> , 2019, 281, 424-431.                      | 4.0 | 23        |
| 112 | Ionic Conductivity and Electrochemical Characterization of Novel Microporous Composite Polymer Electrolytes. <i>Journal of the Electrochemical Society</i> , 1999, 146, 4410-4418.                                | 1.3 | 22        |
| 113 | Detection of guanine at a redox polymer modified indium tin oxide electrode. <i>Sensors and Actuators B: Chemical</i> , 2007, 123, 293-298.   | 4.0 | 22        |
| 114 | An ultrasensitive DNA biosensor based on enzyme-catalyzed deposition of cupric hexacyanoferrate nanoparticles. <i>Biosensors and Bioelectronics</i> , 2010, 25, 1420-1426.  | 5.3 | 22        |
| 115 | A simple and highly sensitive fluorescence assay for microRNAs. <i>Analyst, The</i> , 2015, 140, 1932-1938.   | 1.7 | 22        |
| 116 | Preconcentration and differential-pulse voltammetric determination of iron(II) with Nafion <sup>®</sup> 1,10-phenanthroline-modified carbon paste electrodes. <i>Analytica Chimica Acta</i> , 1990, 241, 137-146. | 2.6 | 21        |
| 117 | Electrochemical impedance spectroscopic study of electropolymerized poly(paraphenylene) film on platinum electrode surface. <i>Electrochimica Acta</i> , 1994, 39, 1419-1425.                                     | 2.6 | 21        |
| 118 | Preparation of nanochain and nanosphere by self-assembly of gold nanoparticles. <i>Applied Physics Letters</i> , 2008, 92, .  | 1.5 | 21        |
| 119 | Detection of glucose with a lamellar-ridge architected gold modified electrode. <i>Sensors and Actuators B: Chemical</i> , 2015, 206, 721-727.  | 4.0 | 21        |
| 120 | Heteroatom Doping Combined with Microstructured Carbon to Enhance the Performance of Sodium-Ion Batteries. <i>Energy Technology</i> , 2017, 5, 481-488.   | 1.8 | 21        |
| 121 | Catalytic voltammetric determination of molybdenum at a chemically modified carbon paste electrode. <i>Electroanalysis</i> , 1996, 8, 1183-1187.  | 1.5 | 20        |
| 122 | A DNA biosensor based on the electrocatalytic oxidation of amine by a threading intercalator. <i>Analytica Chimica Acta</i> , 2009, 636, 77-82.   | 2.6 | 20        |
| 123 | Electropolymerization of intercalator-grafted conducting polymer for direct and amplified DNA detection. <i>Chemical Communications</i> , 2011, 47, 1533-1535.  | 2.2 | 19        |
| 124 | In situ polymerization of aniline on carbon quantum dots: a new platform for ultrasensitive detection of glucose and hydrogen peroxide. <i>RSC Advances</i> , 2015, 5, 21675-21680.                               | 1.7 | 19        |
| 125 | Electrochemical study on the polypyrrole-polyaniline bilayers. <i>Synthetic Metals</i> , 1993, 55, 1477-1482.   | 2.1 | 18        |
| 126 | Electrochemical study on polypyrrole - poly(3-octylthiophene) bilayer films. <i>Synthetic Metals</i> , 1993, 55, 1453-1458.   | 2.1 | 18        |



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|-----|---|-----|-----------|
| 127 | Electrochemical behavior of chromium(III)-hexacyanoferrate film modified electrodes: Voltammetric and electrochemical impedance studies. <i>Journal of Electroanalytical Chemistry</i> , 1994, 370, 95-102. | 1.9 | 18        |
| 128 | Separation of pinhole and tunneling electron transfer processes at self-assembled polymeric monolayers on gold electrodes. <i>Journal of Electroanalytical Chemistry</i> , 1999, 470, 114-119.              | 1.9 | 18        |
| 129 | Electrical Sensor Array for Polymerase Chain Reaction-Free Messenger RNA Expression Profiling. <i>Analytical Chemistry</i> , 2010, 82, 5958-5964.   | 3.2 | 18        |
| 130 | Synthetic genetic polymers: advances and applications. <i>Polymer Chemistry</i> , 2016, 7, 5199-5216.   | 1.9 | 18        |
| 131 | Highly sensitive amperometric detection of genomic DNA in animal tissues. <i>Nucleic Acids Research</i> , 2004, 32, 15e-15.   | 6.5 | 17        |
| 132 | Visualizing Low-Level Point Mutations: Enzyme-like Selectivity Offered by Nanoparticle Probes. <i>Small</i> , 2011, 7, 306-310.   | 5.2 | 17        |
| 133 | Colorimetric detection of single nucleotide polymorphisms in the presence of 10-fold excess of a wild-type gene. <i>Biosensors and Bioelectronics</i> , 2015, 68, 310-315.                                  | 5.3 | 17        |
| 134 | Determination of Trace Amounts of Copper(I) with a Chemically Modified Carbon Paste Electrode. <i>Analytical Sciences</i> , 1992, 8, 337-343.   | 0.8 | 16        |
| 135 | Catalytic-adsorptive stripping voltammetry of cobalt in the presence of 2,2'-bipyridine and nitrite. <i>Talanta</i> , 1996, 43, 255-261.  | 2.9 | 16        |
| 136 | A disposable glucose biosensor based on diffusional mediator dispersed in nanoparticulate membrane on screen-printed carbon electrode. <i>Sensors and Actuators B: Chemical</i> , 2005, 111-112, 339-346.   | 4.0 | 16        |
| 137 | Synthesis of water-soluble and cross-linkable ferrocenyl redox polymers for uses as mediators in biosensors. <i>Sensors and Actuators B: Chemical</i> , 2012, 168, 238-242.                                 | 4.0 | 16        |
| 138 | Synthesis of polyaniline via DNAzyme-catalyzed polymerization of aniline. <i>RSC Advances</i> , 2014, 4, 53257-53264.   | 1.7 | 16        |
| 139 | Electrochemical nucleic acid biosensors: from fabrication to application. <i>Analytical Methods</i> , 2016, 8, 5169-5189.   | 1.3 | 16        |
| 140 | Determination of trace amounts of iron by catalytic-adsorptive stripping voltammetry. <i>Talanta</i> , 1996, 43, 727-733.   | 2.9 | 15        |
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