

Ruo Yuan

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.

604
papers

17,929
citations

65
h-index

88
g-index

634
ext. papers

21,621
ext. citations

7.5
avg, IF

7.52
L-index

| # | Paper | IF | Citations |
|-----|--|------|-----------|
| 604 | Electrochemical sensing of hydrogen peroxide using metal nanoparticles: a review. <i>Mikrochimica Acta</i> , 2013 , 180, 15-32 | 5.8 | 382 |
| 603 | In situ hybridization chain reaction amplification for universal and highly sensitive electrochemiluminescent detection of DNA. <i>Analytical Chemistry</i> , 2012 , 84, 7750-5 | 7.8 | 257 |
| 602 | An "off-on" electrochemiluminescent biosensor based on DNAzyme-assisted target recycling and rolling circle amplifications for ultrasensitive detection of microRNA. <i>Analytical Chemistry</i> , 2015 , 87, 3202-7 | 7.8 | 161 |
| 601 | Highly Ordered and Field-Free 3D DNA Nanostructure: The Next Generation of DNA Nanomachine for Rapid Single-Step Sensing. <i>Journal of the American Chemical Society</i> , 2018 , 140, 9361-9364 | 16.4 | 142 |
| 600 | A multifunctional hemin@metal-organic framework and its application to construct an electrochemical aptasensor for thrombin detection. <i>Nanoscale</i> , 2015 , 7, 18232-8 | 7.7 | 140 |
| 599 | Simultaneous electrochemical detection of multiple analytes based on dual signal amplification of single-walled carbon nanotubes and multi-labeled graphene sheets. <i>Biomaterials</i> , 2012 , 33, 1090-6 | 15.6 | 140 |
| 598 | In Situ Electrochemical Generation of Electrochemiluminescent Silver Nanoclusters on Target-Cycling Synchronized Rolling Circle Amplification Platform for MicroRNA Detection. <i>Analytical Chemistry</i> , 2016 , 88, 3203-10 | 7.8 | 136 |
| 597 | Ultrasensitive potentiometric immunosensor based on SA and OCA techniques for immobilization of HBsAb with colloidal Au and polyvinyl butyral as matrixes. <i>Langmuir</i> , 2004 , 20, 7240-5 | 4 | 134 |
| 596 | Cu-Based Metal-Organic Frameworks as a Catalyst To Construct a Ratiometric Electrochemical Aptasensor for Sensitive Lipopolysaccharide Detection. <i>Analytical Chemistry</i> , 2015 , 87, 11345-52 | 7.8 | 131 |
| 595 | Signal-off Electrochemiluminescence Biosensor Based on Phi29 DNA Polymerase Mediated Strand Displacement Amplification for MicroRNA Detection. <i>Analytical Chemistry</i> , 2015 , 87, 6328-34 | 7.8 | 127 |
| 594 | Electrochemiluminescence Resonance Energy Transfer System: Mechanism and Application in Ratiometric Aptasensor for Lead Ion. <i>Analytical Chemistry</i> , 2015 , 87, 7787-94 | 7.8 | 120 |
| 593 | In situ DNA-templated synthesis of silver nanoclusters for ultrasensitive and label-free electrochemical detection of microRNA. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 1188-93 | 9.5 | 117 |
| 592 | Strong Electrochemiluminescence from MOF Accelerator Enriched Quantum Dots for Enhanced Sensing of Trace cTnl. <i>Analytical Chemistry</i> , 2018 , 90, 3995-4002 | 7.8 | 110 |
| 591 | Ceria Doped Zinc Oxide Nanoflowers Enhanced Luminol-Based Electrochemiluminescence Immunosensor for Amyloid- β Detection. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 12968-75 | 9.5 | 109 |
| 590 | Proximity Binding and Metal Ion-Dependent DNAzyme Cyclic Amplification-Integrated Aptasensor for Label-Free and Sensitive Electrochemical Detection of Thrombin. <i>Analytical Chemistry</i> , 2016 , 88, 8218-23 | 7.8 | 105 |
| 589 | Multiplexed and amplified electronic sensor for the detection of microRNAs from cancer cells. <i>Analytical Chemistry</i> , 2014 , 86, 11913-8 | 7.8 | 104 |
| 588 | Ultrasensitive apurinic/apyrimidinic endonuclease 1 immunosensing based on self-enhanced electrochemiluminescence of a Ru(II) complex. <i>Analytical Chemistry</i> , 2014 , 86, 1053-60 | 7.8 | 100 |

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| 587 | Ultrasensitive simultaneous detection of four biomarkers based on hybridization chain reaction and biotin-streptavidin signal amplification strategy. <i>Biosensors and Bioelectronics</i> , 2015 , 68, 42-48 | 11.8 | 99 |
| 586 | Electrochemiluminescent Graphene Quantum Dots as a Sensing Platform: A Dual Amplification for MicroRNA Assay. <i>Analytical Chemistry</i> , 2015 , 87, 10385-91 | 7.8 | 98 |
| 585 | Electrochemiluminescence Biosensor Based on 3-D DNA Nanomachine Signal Probe Powered by Protein-Aptamer Binding Complex for Ultrasensitive Mucin 1 Detection. <i>Analytical Chemistry</i> , 2017 , 89, 4280-4286 | 7.8 | 97 |
| 584 | DNA-fueled molecular machine enables enzyme-free target recycling amplification for electronic detection of microRNA from cancer cells with highly minimized background noise. <i>Analytical Chemistry</i> , 2015 , 87, 8578-83 | 7.8 | 92 |
| 583 | Bi-directional DNA Walking Machine and Its Application in an Enzyme-Free Electrochemiluminescence Biosensor for Sensitive Detection of MicroRNAs. <i>Analytical Chemistry</i> , 2017 , 89, 5036-5042 | 7.8 | 91 |
| 582 | Porous carbon-coated CuCo ₂ O ₄ concave polyhedrons derived from metal-organic frameworks as anodes for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 12038-12043 | 13 | 90 |
| 581 | Ultrasensitive Electrochemiluminescence Biosensor for MicroRNA Detection by 3D DNA Walking Machine Based Target Conversion and Distance-Controllable Signal Quenching and Enhancing. <i>Analytical Chemistry</i> , 2017 , 89, 8282-8287 | 7.8 | 90 |
| 580 | "Off" to "On" Surface-Enhanced Raman Spectroscopy Platform with Padlock Probe-Based Exponential Rolling Circle Amplification for Ultrasensitive Detection of MicroRNA 155. <i>Analytical Chemistry</i> , 2017 , 89, 2866-2872 | 7.8 | 89 |
| 579 | Aptamer/Protein Proximity Binding-Triggered Molecular Machine for Amplified Electrochemical Sensing of Thrombin. <i>Analytical Chemistry</i> , 2017 , 89, 5138-5143 | 7.8 | 89 |
| 578 | Novel Double-Potential Electrochemiluminescence Ratiometric Strategy in Enzyme-Based Inhibition Biosensing for Sensitive Detection of Organophosphorus Pesticides. <i>Analytical Chemistry</i> , 2017 , 89, 2823-2829 | 7.8 | 88 |
| 577 | New Signal Amplification Strategy Using Semicarbazide as Co-reaction Accelerator for Highly Sensitive Electrochemiluminescent Aptasensor Construction. <i>Analytical Chemistry</i> , 2015 , 87, 11389-97 | 7.8 | 88 |
| 576 | An electrochemical biosensor for sensitive detection of microRNA-155: combining target recycling with cascade catalysis for signal amplification. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 713-20 | 9.5 | 88 |
| 575 | Highly sensitive impedimetric immunosensor based on single-walled carbon nanohorns as labels and bienzyme biocatalyzed precipitation as enhancer for cancer biomarker detection. <i>Biosensors and Bioelectronics</i> , 2014 , 55, 360-5 | 11.8 | 87 |
| 574 | A signal-on electrochemical aptasensor for ultrasensitive detection of endotoxin using three-way DNA junction-aided enzymatic recycling and graphene nanohybrid for amplification. <i>Nanoscale</i> , 2014 , 6, 2902-8 | 7.7 | 87 |
| 573 | Sensitive electrochemiluminescence detection for CA15-3 based on immobilizing luminol on dendrimer functionalized ZnO nanorods. <i>Biosensors and Bioelectronics</i> , 2015 , 63, 33-38 | 11.8 | 86 |
| 572 | Near-infrared aggregation-induced enhanced electrochemiluminescence from tetraphenylethylene nanocrystals: a new generation of ECL emitters. <i>Chemical Science</i> , 2019 , 10, 4497-4501 | 9.4 | 85 |
| 571 | A target responsive aptamer machine for label-free and sensitive non-enzymatic recycling amplification detection of ATP. <i>Chemical Communications</i> , 2016 , 52, 3673-6 | 5.8 | 85 |
| 570 | Metal Organic Frameworks Combining CoFe ₂ O ₄ Magnetic Nanoparticles as Highly Efficient SERS Sensing Platform for Ultrasensitive Detection of N-Terminal Pro-Brain Natriuretic Peptide. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 7683-90 | 9.5 | 83 |

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| 569 | Electrochemiluminescence of peroxydisulfate enhanced by L-cysteine film for sensitive immunoassay. <i>Biosensors and Bioelectronics</i> , 2011 , 26, 3175-80 | 11.8 | 83 |
| 568 | Trimetallic Hybrid Nanoflower-Decorated MoS Nanosheet Sensor for Direct in Situ Monitoring of HO Secreted from Live Cancer Cells. <i>Analytical Chemistry</i> , 2018 , 90, 5945-5950 | 7.8 | 81 |
| 567 | Electrochemiluminescence of luminol enhanced by the synergetic catalysis of hemin and silver nanoparticles for sensitive protein detection. <i>Biosensors and Bioelectronics</i> , 2014 , 54, 20-6 | 11.8 | 81 |
| 566 | Electrochemical Peptide Biosensor Based on in Situ Silver Deposition for Detection of Prostate Specific Antigen. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 13360-6 | 9.5 | 80 |
| 565 | Switchable Target-Responsive 3D DNA Hydrogels As a Signal Amplification Strategy Combining with SERS Technique for Ultrasensitive Detection of miRNA 155. <i>Analytical Chemistry</i> , 2017 , 89, 8538-8544 | 7.8 | 80 |
| 564 | Highly Stable Mesoporous Luminescence-Functionalized MOF with Excellent Electrochemiluminescence Property for Ultrasensitive Immunosensor Construction. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 15913-15919 | 9.5 | 79 |
| 563 | Ultrasensitive Lipopolysaccharides Detection Based on Doxorubicin Conjugated N-(Aminobutyl)-N-(ethylisoluminol) as Electrochemiluminescence Indicator and Self-Assembled Tetrahedron DNA Dendrimers as Nanocarriers. <i>Analytical Chemistry</i> , 2016 , 88, 5218-24 | 7.8 | 79 |
| 562 | Biodegradable MnO Nanosheet-Mediated Signal Amplification in Living Cells Enables Sensitive Detection of Down-Regulated Intracellular MicroRNA. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 5717-5724 | 9.5 | 78 |
| 561 | Signal-Switchable Electrochemiluminescence System Coupled with Target Recycling Amplification Strategy for Sensitive Mercury Ion and Mucin 1 Assay. <i>Analytical Chemistry</i> , 2016 , 88, 9243-50 | 7.8 | 78 |
| 560 | Ultrasensitive Photoelectrochemical Biosensor Based on DNA Tetrahedron as Nanocarrier for Efficient Immobilization of CdTe QDs-Methylene Blue as Signal Probe with Near-Zero Background Noise. <i>Analytical Chemistry</i> , 2018 , 90, 8211-8216 | 7.8 | 75 |
| 559 | Functional Three-Dimensional Porous Conductive Polymer Hydrogels for Sensitive Electrochemiluminescence in Situ Detection of HO Released from Live Cells. <i>Analytical Chemistry</i> , 2018 , 90, 8462-8469 | 7.8 | 75 |
| 558 | Development of an electrochemical method for Ochratoxin A detection based on aptamer and loop-mediated isothermal amplification. <i>Biosensors and Bioelectronics</i> , 2014 , 55, 324-9 | 11.8 | 75 |
| 557 | MoS Quantum Dots as New Electrochemiluminescence Emitters for Ultrasensitive Bioanalysis of Lipopolysaccharide. <i>Analytical Chemistry</i> , 2017 , 89, 8335-8342 | 7.8 | 75 |
| 556 | New type of redox nanoprobe: C60-based nanomaterial and its application in electrochemical immunoassay for doping detection. <i>Analytical Chemistry</i> , 2015 , 87, 1669-75 | 7.8 | 75 |
| 555 | Ultrasensitive Assay for Telomerase Activity via Self-Enhanced Electrochemiluminescent Ruthenium Complex Doped Metal-Organic Frameworks with High Emission Efficiency. <i>Analytical Chemistry</i> , 2017 , 89, 3222-3227 | 7.8 | 74 |
| 554 | Ultrasensitive electrochemical immunosensor for carbohydrate antigen 19-9 using Au/porous graphene nanocomposites as platform and Au@Pd core/shell bimetallic functionalized graphene nanocomposites as signal enhancers. <i>Biosensors and Bioelectronics</i> , 2015 , 66, 356-62 | 11.8 | 74 |
| 553 | Cu Nanoclusters: Novel Electrochemiluminescence Emitters for Bioanalysis. <i>Analytical Chemistry</i> , 2016 , 88, 11527-11532 | 7.8 | 74 |
| 552 | Highly Efficient Electrochemiluminescent Silver Nanoclusters/Titanium Oxide Nanomaterials as a Signal Probe for Ferrocene-Driven Light Switch Bioanalysis. <i>Analytical Chemistry</i> , 2017 , 89, 3732-3738 | 7.8 | 73 |

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| 551 | Morphology-Controlled 9,10-Diphenylanthracene Nanoblocks as Electrochemiluminescence Emitters for MicroRNA Detection with One-Step DNA Walker Amplification. <i>Analytical Chemistry</i> , 2018 , 90, 5298-5305 | 7.8 | 73 |
| 550 | Self-Enhanced Electrochemiluminescence Nanorods of Tris(bipyridine) Ruthenium(II) Derivative and Its Sensing Application for Detection of N-Acetyl-D-glucosaminidase. <i>Analytical Chemistry</i> , 2016 , 88, 2258-65 | 7.8 | 73 |
| 549 | A DNA-Fueled and Catalytic Molecule Machine Lights Up Trace Under-Expressed MicroRNAs in Living Cells. <i>Analytical Chemistry</i> , 2017 , 89, 9934-9940 | 7.8 | 73 |
| 548 | An amplified electrochemical immunosensor based on in situ-produced 1-naphthol as electroactive substance and graphene oxide and Pt nanoparticles functionalized CeO ₂ nanocomposites as signal enhancer. <i>Biosensors and Bioelectronics</i> , 2015 , 69, 321-7 | 11.8 | 72 |
| 547 | A dual-potential electrochemiluminescence ratiometric sensor for sensitive detection of dopamine based on graphene-CdTe quantum dots and self-enhanced Ru(II) complex. <i>Biosensors and Bioelectronics</i> , 2017 , 90, 61-68 | 11.8 | 71 |
| 546 | Multicolor-Encoded Reconfigurable DNA Nanostructures Enable Multiplexed Sensing of Intracellular MicroRNAs in Living Cells. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 13303-8 | 9.5 | 69 |
| 545 | Ternary Electrochemiluminescence System Based on Rubrene Microrods as Luminophore and Pt Nanomaterials as Coreaction Accelerator for Ultrasensitive Detection of MicroRNA from Cancer Cells. <i>Analytical Chemistry</i> , 2017 , 89, 9108-9115 | 7.8 | 69 |
| 544 | In situ spontaneous reduction synthesis of spherical Pd@Cys-C60 nanoparticles and its application in nonenzymatic glucose biosensors. <i>Chemical Communications</i> , 2012 , 48, 597-9 | 5.8 | 68 |
| 543 | Ru(bpy) ₃ (2+)-doped silica nanoparticles labeling for a sandwich-type electrochemiluminescence immunosensor. <i>Biosensors and Bioelectronics</i> , 2010 , 25, 1851-5 | 11.8 | 68 |
| 542 | Dual-color encoded DNAzyme nanostructures for multiplexed detection of intracellular metal ions in living cells. <i>Biosensors and Bioelectronics</i> , 2016 , 85, 573-579 | 11.8 | 66 |
| 541 | Procalcitonin sensitive detection based on graphene-gold nanocomposite film sensor platform and single-walled carbon nanohorns/hollow Pt chains complex as signal tags. <i>Biosensors and Bioelectronics</i> , 2014 , 60, 210-7 | 11.8 | 66 |
| 540 | DNA nanomachine-based regenerated sensing platform: a novel electrochemiluminescence resonance energy transfer strategy for ultra-high sensitive detection of microRNA from cancer cells. <i>Nanoscale</i> , 2017 , 9, 2310-2316 | 7.7 | 65 |
| 539 | Using p-type PbS Quantum Dots to Quench Photocurrent of Fullerene-Au NP@MoS ₂ Composite Structure for Ultrasensitive Photoelectrochemical Detection of ATP. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 42111-42120 | 9.5 | 65 |
| 538 | A sensitive electrochemical aptasensor based on the co-catalysis of hemin/G-quadruplex, platinum nanoparticles and flower-like MnO ₂ nanosphere functionalized multi-walled carbon nanotubes. <i>Chemical Communications</i> , 2015 , 51, 1472-4 | 5.8 | 63 |
| 537 | Electrochemiluminescence Peptide-Based Biosensor with Hetero-Nanostructures as Coreaction Accelerator for the Ultrasensitive Determination of Tryptase. <i>Analytical Chemistry</i> , 2018 , 90, 2263-2270 | 7.8 | 63 |
| 536 | In situ electro-polymerization of nitrogen doped carbon dots and their application in an electrochemiluminescence biosensor for the detection of intracellular lead ions. <i>Chemical Communications</i> , 2016 , 52, 5589-92 | 5.8 | 62 |
| 535 | Cu/Mn Double-Doped CeO ₂ Nanocomposites as Signal Tags and Signal Amplifiers for Sensitive Electrochemical Detection of Procalcitonin. <i>Analytical Chemistry</i> , 2017 , 89, 13349-13356 | 7.8 | 61 |
| 534 | Luminescence-Functionalized Metal-Organic Frameworks Based on a Ruthenium(II) Complex: A Signal Amplification Strategy for Electrogenerated Chemiluminescence Immunosensors. <i>Chemistry - A European Journal</i> , 2015 , 21, 9825-32 | 4.8 | 61 |

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| 533 | Metallo-Toehold-Activated Catalytic Hairpin Assembly Formation of Three-Way DNAzyme Junctions for Amplified Fluorescent Detection of Hg. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 5733-5738 | 9.5 | 60 |
| 532 | Highly Efficient Electrochemiluminescence Resonance Energy Transfer System in One Nanostructure: Its Application for Ultrasensitive Detection of MicroRNA in Cancer Cells. <i>Analytical Chemistry</i> , 2017 , 89, 6029-6035 | 7.8 | 60 |
| 531 | Silver Ions as Novel Coreaction Accelerator for Remarkably Enhanced Electrochemiluminescence in a PTCA-SO System and Its Application in an Ultrasensitive Assay for Mercury Ions. <i>Analytical Chemistry</i> , 2018 , 90, 6851-6858 | 7.8 | 60 |
| 530 | Novel 2D-DNA-Nanoprobe-Mediated Enzyme-Free-Target-Recycling Amplification for the Ultrasensitive Electrochemical Detection of MicroRNA. <i>Analytical Chemistry</i> , 2018 , 90, 9538-9544 | 7.8 | 60 |
| 529 | Universal Ratiometric Photoelectrochemical Bioassay with Target-Nucleotide Transduction-Amplification and Electron-Transfer Tunneling Distance Regulation Strategies for Ultrasensitive Determination of microRNA in Cells. <i>Analytical Chemistry</i> , 2017 , 89, 9445-9451 | 7.8 | 60 |
| 528 | Amperometric Hydrogen Peroxide Biosensor Based on the Immobilization of Horseradish Peroxidase (HRP) on the Layer-by-Layer Assembly Films of Gold Colloidal Nanoparticles and Tolidine Blue. <i>Electroanalysis</i> , 2006 , 18, 471-477 | 3 | 60 |
| 527 | A Sensitive Electrochemical Aptasensor for Thrombin Detection Based on Electroactive Co-Based Metal-Organic Frameworks with Target-Triggering NESAs Strategy. <i>Analytical Chemistry</i> , 2017 , 89, 11636-11640 | 7.8 | 59 |
| 526 | Versatile and Ultrasensitive Electrochemiluminescence Biosensor for Biomarker Detection Based on Nonenzymatic Amplification and Aptamer-Triggered Emitter Release. <i>Analytical Chemistry</i> , 2019 , 91, 3452-3458 | 7.8 | 59 |
| 525 | A highly sensitive VEGF photoelectrochemical biosensor fabricated by assembly of aptamer bridged DNA networks. <i>Biosensors and Bioelectronics</i> , 2018 , 101, 213-218 | 11.8 | 59 |
| 524 | Ternary Electrochemiluminescence Nanostructure of Au Nanoclusters as a Highly Efficient Signal Label for Ultrasensitive Detection of Cancer Biomarkers. <i>Analytical Chemistry</i> , 2018 , 90, 10024-10030 | 7.8 | 59 |
| 523 | Au nanoparticles decorated C60 nanoparticle-based label-free electrochemiluminescence aptasensor via a novel "on-off-on" switch system. <i>Biomaterials</i> , 2015 , 52, 476-83 | 15.6 | 58 |
| 522 | Target-induced structure switching of hairpin aptamers for label-free and sensitive fluorescent detection of ATP via exonuclease-catalyzed target recycling amplification. <i>Biosensors and Bioelectronics</i> , 2014 , 51, 293-6 | 11.8 | 58 |
| 521 | Cascaded signal amplification via target-triggered formation of aptazyme for sensitive electrochemical detection of ATP. <i>Biosensors and Bioelectronics</i> , 2018 , 102, 296-300 | 11.8 | 58 |
| 520 | Novel electrochemical catalysis as signal amplified strategy for label-free detection of neuron-specific enolase. <i>Biosensors and Bioelectronics</i> , 2012 , 31, 399-405 | 11.8 | 57 |
| 519 | Sensitive detection of copper(II) by a commercial glucometer using click chemistry. <i>Biosensors and Bioelectronics</i> , 2013 , 45, 219-22 | 11.8 | 57 |
| 518 | Coupling hybridization chain reaction with catalytic hairpin assembly enables non-enzymatic and sensitive fluorescent detection of microRNA cancer biomarkers. <i>Biosensors and Bioelectronics</i> , 2016 , 77, 416-20 | 11.8 | 56 |
| 517 | A sensitive electrochemical aptasensor based on palladium nanoparticles decorated graphene-molybdenum disulfide flower-like nanocomposites and enzymatic signal amplification. <i>Analytica Chimica Acta</i> , 2015 , 853, 234-241 | 6.6 | 56 |
| 516 | An ultrasensitive "on-off-on" photoelectrochemical aptasensor based on signal amplification of a fullerene/CdTe quantum dots sensitized structure and efficient quenching by manganese porphyrin. <i>Chemical Communications</i> , 2016 , 52, 8138-41 | 5.8 | 56 |

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| 515 | Direct electrochemistry and electrocatalysis of a glucose oxidase-functionalized bioconjugate as a trace label for ultrasensitive detection of thrombin. <i>Chemical Communications</i> , 2012 , 48, 10972-4 | 5.8 | 56 |
| 514 | A series of novel entangled coordination frameworks with inherent features of self-threading, polyrotaxane and polycatenane. <i>CrystEngComm</i> , 2011 , 13, 4988 | 3.3 | 56 |
| 513 | Matrix Coordination-Induced Electrochemiluminescence Enhancement of Tetraphenylethylene-Based Hafnium Metal-Organic Framework: An Electrochemiluminescence Chromophore for Ultrasensitive Electrochemiluminescence Sensor Construction. <i>Analytical Chemistry</i> , 2020 , 92, 3380-3387 | 7.8 | 55 |
| 512 | Ce-based metal-organic frameworks and DNAzyme-assisted recycling as dual signal amplifiers for sensitive electrochemical detection of lipopolysaccharide. <i>Biosensors and Bioelectronics</i> , 2016 , 83, 287-92 | 11.8 | 55 |
| 511 | MicroRNA-triggered, cascaded and catalytic self-assembly of functional "DNAzyme ferris wheel" nanostructures for highly sensitive colorimetric detection of cancer cells. <i>Nanoscale</i> , 2015 , 7, 9055-61 | 7.7 | 54 |
| 510 | An electrogenerated chemiluminescence sensor based on gold nanoparticles@C60 hybrid for the determination of phenolic compounds. <i>Biosensors and Bioelectronics</i> , 2014 , 60, 325-31 | 11.8 | 54 |
| 509 | SnS Quantum Dots as New Emitters with Strong Electrochemiluminescence for Ultrasensitive Antibody Detection. <i>Analytical Chemistry</i> , 2018 , 90, 12270-12277 | 7.8 | 54 |
| 508 | Highly sensitive electrochemiluminescence assay of acetylcholinesterase activity based on dual biomarkers using Pd-Au nanowires as immobilization platform. <i>Biosensors and Bioelectronics</i> , 2016 , 79, 34-40 | 11.8 | 53 |
| 507 | A highly sensitive electrochemiluminescence biosensor for the detection of organophosphate pesticides based on cyclodextrin functionalized graphitic carbon nitride and enzyme inhibition. <i>Chemical Communications</i> , 2016 , 52, 5049-52 | 5.8 | 53 |
| 506 | Aptamer-Functionalized and Gold Nanoparticle Array-Decorated Magnetic Graphene Nanosheets Enable Multiplexed and Sensitive Electrochemical Detection of Rare Circulating Tumor Cells in Whole Blood. <i>Analytical Chemistry</i> , 2019 , 91, 10792-10799 | 7.8 | 53 |
| 505 | Synthesis of multi-fullerenes encapsulated palladium nanocage, and its application in electrochemiluminescence immunosensors for the detection of Streptococcus suis Serotype 2. <i>Small</i> , 2014 , 10, 1857-65 | 11 | 53 |
| 504 | A novel metal-organic framework loaded with abundant N-(aminobutyl)-N-(ethylisoluminol) as a high-efficiency electrochemiluminescence indicator for sensitive detection of mucin1 on cancer cells. <i>Chemical Communications</i> , 2017 , 53, 9705-9708 | 5.8 | 53 |
| 503 | Dendrimer functionalized reduced graphene oxide as nanocarrier for sensitive pseudobioenzyme electrochemical aptasensor. <i>Biosensors and Bioelectronics</i> , 2013 , 42, 474-80 | 11.8 | 53 |
| 502 | Electrochemical aptasensor based on the dual-amplification of G-quadruplex horseradish peroxidase-mimicking DNAzyme and blocking reagent-horseradish peroxidase. <i>Biosensors and Bioelectronics</i> , 2011 , 26, 4236-40 | 11.8 | 53 |
| 501 | Click Chemistry Reaction-Triggered 3D DNA Walking Machine for Sensitive Electrochemical Detection of Copper Ion. <i>Analytical Chemistry</i> , 2018 , 90, 11439-11445 | 7.8 | 53 |
| 500 | In Situ Electrodeposited Synthesis of Electrochemiluminescent Ag Nanoclusters as Signal Probe for Ultrasensitive Detection of Cyclin-D1 from Cancer Cells. <i>Analytical Chemistry</i> , 2017 , 89, 6787-6793 | 7.8 | 52 |
| 499 | Dual microRNAs-Fueled DNA Nanogears: A Case of Regenerated Strategy for Multiple Electrochemiluminescence Detection of microRNAs with Single Luminophore. <i>Analytical Chemistry</i> , 2017 , 89, 1338-1345 | 7.8 | 52 |
| 498 | Toehold strand displacement-driven assembly of G-quadruplex DNA for enzyme-free and non-label sensitive fluorescent detection of thrombin. <i>Biosensors and Bioelectronics</i> , 2015 , 64, 306-10 | 11.8 | 52 |

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| 497 | Hollow Porous Polymeric Nanospheres of a Self-Enhanced Ruthenium Complex with Improved Electrochemiluminescent Efficiency for Ultrasensitive Aptasensor Construction. <i>Analytical Chemistry</i> , 2017 , 89, 9232-9238 | 7.8 | 52 |
| 496 | Aptamer pseudoknot-functionalized electronic sensor for reagentless and single-step detection of immunoglobulin E in human serum. <i>Analytical Chemistry</i> , 2015 , 87, 3094-8 | 7.8 | 52 |
| 495 | A Novel Nonenzymatic Hydrogen Peroxide Sensor Based on a Polypyrrole Nanowire-Copper Nanocomposite Modified Gold Electrode. <i>Sensors</i> , 2008 , 8, 5141-5152 | 3.8 | 52 |
| 494 | Self-Enhanced Ultrasensitive Photoelectrochemical Biosensor Based on Nanocapsule Packaging Both Donor-Acceptor-Type Photoactive Material and Its Sensitizer. <i>Analytical Chemistry</i> , 2016 , 88, 8698-705 | 7.8 | 52 |
| 493 | Dual amplified and ultrasensitive electrochemical detection of mutant DNA Biomarkers based on nuclease-assisted target recycling and rolling circle amplifications. <i>Biosensors and Bioelectronics</i> , 2014 , 55, 266-71 | 11.8 | 51 |
| 492 | PtNPs as Scaffolds to Regulate Interenzyme Distance for Construction of Efficient Enzyme Cascade Amplification for Ultrasensitive Electrochemical Detection of MMP-2. <i>Analytical Chemistry</i> , 2017 , 89, 9383-9387 | 7.8 | 50 |
| 491 | Target-catalyzed hairpin assembly and intramolecular/intermolecular co-reaction for signal amplified electrochemiluminescent detection of microRNA. <i>Biosensors and Bioelectronics</i> , 2016 , 77, 442-50 | 11.8 | 49 |
| 490 | Tracing Phosphate Ions Generated during Loop-Mediated Isothermal Amplification for Electrochemical Detection of <i>Nosema bombycis</i> Genomic DNA PTP1. <i>Analytical Chemistry</i> , 2015 , 87, 10268-74 | 7.8 | 49 |
| 489 | Binding-induced autonomous disassembly of aptamer-DNAzyme supersandwich nanostructures for sensitive electrochemiluminescence turn-on detection of ochratoxin A. <i>Nanoscale</i> , 2014 , 6, 1099-104 | 7.7 | 49 |
| 488 | Non-enzymatic hydrogen peroxide amperometric sensor based on a glassy carbon electrode modified with an MWCNT/polyaniline composite film and platinum nanoparticles. <i>Mikrochimica Acta</i> , 2012 , 176, 389-395 | 5.8 | 49 |
| 487 | Ultrasensitive Cytosensor Based on Self-Enhanced Electrochemiluminescent Ruthenium-Silica Composite Nanoparticles for Efficient Drug Screening with Cell Apoptosis Monitoring. <i>Analytical Chemistry</i> , 2015 , 87, 12363-71 | 7.8 | 48 |
| 486 | Target-triggered catalytic hairpin assembly and TdT-catalyzed DNA polymerization for amplified electronic detection of thrombin in human serums. <i>Biosensors and Bioelectronics</i> , 2017 , 87, 495-500 | 11.8 | 48 |
| 485 | A microRNA-activated molecular machine for non-enzymatic target recycling amplification detection of microRNA from cancer cells. <i>Chemical Communications</i> , 2015 , 51, 11084-7 | 5.8 | 48 |
| 484 | In situ formation of flower-like CuCo ₂ S ₄ nanosheets/graphene composites with enhanced lithium storage properties. <i>RSC Advances</i> , 2016 , 6, 38321-38327 | 3.7 | 48 |
| 483 | Ferrocene covalently confined in porous MOF as signal tag for highly sensitive electrochemical immunoassay of amyloid- β . <i>Journal of Materials Chemistry B</i> , 2017 , 5, 8330-8336 | 7.3 | 47 |
| 482 | In-situ carbonization for template-free synthesis of MoO ₂ -Mo ₂ C-C microspheres as high-performance lithium battery anode. <i>Chemical Engineering Journal</i> , 2018 , 337, 74-81 | 14.7 | 47 |
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| 319 | Host-Guest Recognition-Assisted Electrochemical Release: Its Reusable Sensing Application Based on DNA Cross Configuration-Fueled Target Cycling and Strand Displacement Reaction Amplification. <i>Analytical Chemistry</i> , 2017 , 89, 8266-8272 | 7.8 | 22 |
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| 260 | Highly sensitive electrochemiluminescence immunosensor based on ABEI/HO system with PFO dots as enhancer for detection of kidney injury molecule-1. <i>Biosensors and Bioelectronics</i> , 2018 , 116, 16-22 | 11.8 | 17 |
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| 250 | DNA-mediated strand displacement facilitates sensitive electronic detection of antibodies in human serums. <i>Biosensors and Bioelectronics</i> , 2016 , 83, 156-61 | 11.8 | 16 |
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| 226 | RNA-regulated molecular tweezers for sensitive fluorescent detection of microRNA from cancer cells. <i>Biosensors and Bioelectronics</i> , 2015 , 71, 98-102 | 11.8 | 13 |
| 225 | A novel potential-resolved electrochemiluminescence immunosensor for the simultaneous determination of brain natriuretic peptide and cardiac troponin I. <i>Sensors and Actuators B: Chemical</i> , 2020 , 311, 127934 | 8.5 | 13 |
| 224 | Impedimetric aptasensor for nuclear factor kappa B with peroxidase-like mimic coupled DNA nanoladders as enhancer. <i>Biosensors and Bioelectronics</i> , 2016 , 81, 1-7 | 11.8 | 13 |
| 223 | MicroRNA-induced cascaded and catalytic self-assembly of DNA nanostructures for enzyme-free and sensitive fluorescence detection of microRNA from tumor cells. <i>Chemical Communications</i> , 2016 , 52, 2501-4 | 5.8 | 13 |
| 222 | Highly enhanced electrochemiluminescence based on pseudo triple-enzyme cascade catalysis and in situ generation of co-reactant for thrombin detection. <i>Analyst, The</i> , 2014 , 139, 1030-6 | 5 | 13 |
| 221 | An efficient electrochemiluminescence amplification strategy via bis-co-reaction accelerator for sensitive detection of laminin to monitor overnutrition associated liver damage. <i>Biosensors and Bioelectronics</i> , 2017 , 98, 317-324 | 11.8 | 13 |
| 220 | On-Off PVC Membrane Based Potentiometric Immunosensor for Label-Free Detection of Alpha-Fetoprotein. <i>Electroanalysis</i> , 2007 , 19, 1131-1138 | 3 | 13 |
| 219 | A New Enzyme Immobilization Technique Based on Thionine-Bovine Serum Albumin Conjugate and Gold Colloidal Nanoparticles for Reagentless Amperometric Biosensor Applications. <i>Electroanalysis</i> , 2008 , 20, 418-425 | 3 | 13 |
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| 217 | Lattice-Like DNA Tetrahedron Nanostructure as Scaffold to Locate GOx and HRP Enzymes for Highly Efficient Enzyme Cascade Reaction. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 2871-2877 | 9.5 | 13 |
| 216 | Guanine-Lighting-Up Fluorescence Biosensing of Silver Nanoclusters Populated in Functional DNA Constructs by a pH-Triggered Switch. <i>Analytical Chemistry</i> , 2020 , 92, 13369-13377 | 7.8 | 13 |
| 215 | Bipedal DNA walker mediated enzyme-free exponential isothermal signal amplification for rapid detection of microRNA. <i>Chemical Communications</i> , 2019 , 55, 13932-13935 | 5.8 | 13 |
| 214 | Self-Assembly of Gold Nanoclusters into a Metal-Organic Framework with Efficient Electrochemiluminescence and Their Application for Sensitive Detection of Rutin. <i>Analytical Chemistry</i> , 2021 , 93, 3445-3451 | 7.8 | 13 |
| 213 | Novel Ratiometric Electrochemiluminescence Biosensor Based on BP-CdTe QDs with Dual Emission for Detecting MicroRNA-126. <i>Analytical Chemistry</i> , 2021 , 93, 12400-12408 | 7.8 | 13 |
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| 209 | Liquid Phase Interfacial Surface-Enhanced Raman Scattering Platform for Ratiometric Detection of MicroRNA 155. <i>Analytical Chemistry</i> , 2020 , 92, 15573-15578 | 7.8 | 12 |
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| 207 | Novel ABEI/Dissolved O/AgBiO Nanocrystals ECL Ternary System with High Luminous Efficiency for Ultrasensitive Determination of MicroRNA. <i>Analytical Chemistry</i> , 2019 , 91, 11447-11454 | 7.8 | 12 |
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| 193 | Netlike hybridization chain reaction assembly of DNA nanostructures enables exceptional signal amplification for sensing trace cytokines. <i>Nanoscale</i> , 2019 , 11, 16362-16367 | 7.7 | 11 |
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| 190 | Biomolecule-Doped Organic/Inorganic Hybrid Nanocomposite Film for Label-Free Electrochemical Immunoassay of H-Fetoprotein. <i>Electroanalysis</i> , 2008 , 20, 989-995 | 3 | 11 |
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| 177 | Terminal protection of small molecule-linked ssDNA for label-free and sensitive fluorescent detection of folate receptor. <i>Talanta</i> , 2014 , 128, 237-41 | 6.2 | 10 |
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| 170 | 3D DNA Scaffold-Assisted Dual Intramolecular Amplifications for Multiplexed and Sensitive MicroRNA Imaging in Living Cells. <i>Analytical Chemistry</i> , 2021 , 93, 9912-9919 | 7.8 | 10 |
| 169 | Silver ion-stabilized DNA triplexes for completely enzyme-free and sensitive fluorescence detection of transcription factors via catalytic hairpin assembly amplification. <i>Journal of Materials Chemistry B</i> , 2019 , 7, 763-767 | 7.3 | 9 |
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| 167 | A novel electrochemiluminescence biosensor based on the self-ECL emission of conjugated polymer dots for lead ion detection. <i>Mikrochimica Acta</i> , 2020 , 187, 237 | 5.8 | 9 |
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| 163 | Electrochemical lead(II) biosensor by using an ion-dependent split DNAzyme and a template-free DNA extension reaction for signal amplification. <i>Mikrochimica Acta</i> , 2019 , 186, 709 | 5.8 | 9 |
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| 159 | Target-induced autonomous synthesis of G-quadruplex sequences for label-free and amplified fluorescent aptasensing of mucin 1. <i>Sensors and Actuators B: Chemical</i> , 2020 , 304, 127351 | 8.5 | 9 |
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| 144 | A noncovalent Ru(phen) ₃ ²⁺ @CNTs nanocomposite and its application as a solid-state electrochemiluminescence signal probe. <i>RSC Advances</i> , 2014 , 4, 1955-1960 | 3.7 | 8 |
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| 141 | Tricoordinate Schiff Base Copper(II) Complex as Neutral Carrier for Highly Selective Thiocyanate Electrode. <i>Analytical Letters</i> , 2005 , 38, 389-400 | 2.2 | 8 |
| 140 | Polymerization nicking-triggered LAMP cascades enable exceptional signal amplification for aptamer-based label-free detection of trace proteins in human serum. <i>Analytica Chimica Acta</i> , 2020 , 1098, 164-169 | 6.6 | 8 |
| 139 | Enhancing photoelectrochemical performance of ZnInS by phosphorus doping for sensitive detection of miRNA-155. <i>Chemical Communications</i> , 2020 , 56, 14275-14278 | 5.8 | 8 |
| 138 | A DNA nanopillar as a scaffold to regulate the ratio and distance of mimic enzymes for an efficient cascade catalytic platform. <i>Chemical Science</i> , 2020 , 12, 407-411 | 9.4 | 8 |

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| 137 | Swing Arm Location-Controllable DNA Walker for Electrochemiluminescence Biosensing. <i>Analytical Chemistry</i> , 2021 , 93, 4051-4058 | 7.8 | 8 |
| 136 | Combining Porous Magnetic Ni@C Nanospheres and CaCO Microcapsule as Surface-Enhanced Raman Spectroscopy Sensing Platform for Hypersensitive C-Reactive Protein Detection. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 33707-33712 | 9.5 | 8 |
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| 134 | Wavelength distinguishable signal quenching and enhancing toward photoactive material 3,4,9,10-perylenetetracarboxylic dianhydride for simultaneous assay of dual metal ions. <i>Biosensors and Bioelectronics</i> , 2019 , 145, 111702 | 11.8 | 7 |
| 133 | FeS ₂ @AuNPs Nanocomposite as Mimicking Enzyme for Constructing Signal-off Sandwich-type Electrochemical Immunosensor Based on Electroactive Nickel Hexacyanoferrate as Matrix. <i>Electroanalysis</i> , 2019 , 31, 1019-1025 | 3 | 7 |
| 132 | Terminal protection of small molecule-linked ssDNA for label-free and highly sensitive colorimetric detection of folate receptor biomarkers. <i>RSC Advances</i> , 2015 , 5, 6100-6105 | 3.7 | 7 |
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| 130 | A novel "signal on" photoelectrochemical strategy based on dual functional hemin for microRNA assay. <i>Chemical Communications</i> , 2019 , 55, 9721-9724 | 5.8 | 7 |
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| 128 | Double layer enzyme modified carbon nanotubes as label for sandwich-type immunoassay of tumor markers. <i>Mikrochimica Acta</i> , 2011 , 172, 373-378 | 5.8 | 7 |
| 127 | Novel Membrane Potentiometric Thiocyanate Sensor Based on Tribenzyltin(IV) Dithiocarbamate. <i>Electroanalysis</i> , 2005 , 17, 1003-1007 | 3 | 7 |
| 126 | Click chemistry-mediated cyclic cleavage of metal ion-dependent DNAzymes for amplified and colorimetric detection of human serum copper (II). <i>Analytical and Bioanalytical Chemistry</i> , 2017 , 409, 6421-6427 | 4.4 | 7 |
| 125 | Targeted DNA-driven catalytic assembly light-up ratiometric fluorescence of biemissive silver nanoclusters for amplified biosensing. <i>Chemical Communications</i> , 2020 , 56, 10325-10328 | 5.8 | 7 |
| 124 | A novel SERS substrate with high reusability for sensitive detection of miRNA 21. <i>Talanta</i> , 2021 , 228, 122240 | 6.2 | 7 |
| 123 | Constructing 3D MoO ₂ /N-doped carbon composites with amorphous nanowires and crystalline nanoparticles for high Li storage capacity. <i>Powder Technology</i> , 2021 , 377, 281-288 | 5.2 | 7 |
| 122 | Double-site DNA walker based ternary electrochemiluminescent biosensor. <i>Talanta</i> , 2020 , 219, 121274 | 6.2 | 6 |
| 121 | Proximity ligation-responsive catalytic hairpin assembly-guided DNA dendrimers for synergistically amplified electrochemical biosensing. <i>Sensors and Actuators B: Chemical</i> , 2020 , 322, 128566 | 8.5 | 6 |
| 120 | Self-assembly of metal-organic frameworks and graphene oxide as precursors for lithium-ion battery applications. <i>Journal of Nanoparticle Research</i> , 2016 , 18, 1 | 2.3 | 6 |

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| 119 | High-sensitive electrochemiluminescent analysis based on co-reactive high-molecular polymer and dual catalysis to generate oxygen in situ. <i>Analytica Chimica Acta</i> , 2019 , 1081, 65-71 | 6.6 | 6 |
| 118 | Highly enhanced electrochemiluminescent strategy for tumor biomarkers detection with in situ generation of L-homocysteine for signal amplification. <i>Analytica Chimica Acta</i> , 2014 , 815, 16-21 | 6.6 | 6 |
| 117 | Graphene nanosensor for highly sensitive fluorescence turn-on detection of Hg ²⁺ based on target recycling amplification. <i>RSC Advances</i> , 2014 , 4, 39082 | 3.7 | 6 |
| 116 | A Novel Amperometric Biosensor for Determination of Hydrogen Peroxide Based on Nafion and Polythionine as Well as Gold Nanoparticles and Gelatin as Matrixes. <i>Analytical Letters</i> , 2006 , 39, 483-494 | 2.2 | 6 |
| 115 | Dual 3D DNA Nanomachine-Mediated Catalytic Hairpin Assembly for Ultrasensitive Detection of MicroRNA. <i>Analytical Chemistry</i> , 2021 , 93, 13952-13959 | 7.8 | 6 |
| 114 | Porous SiO ₂ @Ni@C and Au nanocages as surface-enhanced Raman spectroscopy platform with use of DNA structure switching for sensitive detection of uracil DNA glycolase. <i>Sensors and Actuators B: Chemical</i> , 2020 , 304, 127273 | 8.5 | 6 |
| 113 | Coupling strand extension/excision amplification with target recycling enables highly sensitive and aptamer-based label-free sensing of ATP in human serum. <i>Analyst, The</i> , 2020 , 145, 434-439 | 5 | 6 |
| 112 | Targeted Delivery of DNA Framework-Encapsulated Native Therapeutic Protein into Cancer Cells. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 54489-54496 | 9.5 | 6 |
| 111 | Convenient and highly sensitive electrochemical biosensor for monitoring acid phosphatase activity. <i>Sensors and Actuators B: Chemical</i> , 2021 , 332, 129483 | 8.5 | 6 |
| 110 | Double Hairpin DNAs Recognition Induced a Novel Cascade Amplification for Highly Specific and Ultrasensitive Electrochemiluminescence Detection of DNA. <i>Analytical Chemistry</i> , 2021 , 93, 7987-7992 | 7.8 | 6 |
| 109 | High-Fidelity and Simultaneous Sensing of Endogenous Mutant and Wild p53 Proteins for Precise Cancer Diagnosis and Drug Screening. <i>Analytical Chemistry</i> , 2021 , 93, 8084-8090 | 7.8 | 6 |
| 108 | DNA Structure-Stabilized Liquid-Liquid Self-Assembled Ordered Au Nanoparticle Interface for Sensitive Detection of MiRNA 155. <i>Analytical Chemistry</i> , 2021 , 93, 11019-11024 | 7.8 | 6 |
| 107 | High-Efficient Electrochemiluminescence of Au Nanoclusters Induced by the Electrosensitizer CuO: The Mechanism Insights from the Electrogenerated Process. <i>Analytical Chemistry</i> , 2021 , 93, 10212-10219 | 7.8 | 6 |
| 106 | Steric hindrance inhibition of strand displacement for homogeneous and signal-on fluorescence detection of human serum antibodies. <i>Chemical Communications</i> , 2016 , 52, 12586-12589 | 5.8 | 6 |
| 105 | In situ formation of G-quadruplex/hemin nanowires for sensitive and label-free electrochemical sensing of acid phosphatase. <i>Sensors and Actuators B: Chemical</i> , 2021 , 330, 129272 | 8.5 | 6 |
| 104 | A novel potential-regulated ratiometric electrochemiluminescence sensing strategy based on poly(9,9-di-n-octylfluorenyl-2,7-diyl) polymer nanoparticles for microRNA detection. <i>Sensors and Actuators B: Chemical</i> , 2021 , 329, 129210 | 8.5 | 6 |
| 103 | Highly efficient electrochemiluminescence resonance energy transfer material constructed from an AIEgen-based 2D ultrathin metal-organic layer for thrombin detection. <i>Chemical Communications</i> , 2021 , 57, 4323-4326 | 5.8 | 6 |
| 102 | An ATP-fueled nucleic acid signal amplification strategy for highly sensitive microRNA detection. <i>Chemical Communications</i> , 2018 , 54, 10897-10900 | 5.8 | 6 |

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| 101 | Crystallization-Induced Enhanced Electrochemiluminescence from Tetraphenyl Alkene Nanocrystals for Ultrasensitive Sensing. <i>Analytical Chemistry</i> , 2021 , 93, 10890-10897 | 7.8 | 6 |
| 100 | K-junction structure mediated exponential signal amplification strategy for microRNA detection in electrochemiluminescence biosensor. <i>Analyst, The</i> , 2017 , 142, 2185-2190 | 5 | 5 |
| 99 | Spray pyrolysis deposition of CuZnInS solid-solution thin films with tunable compositions and band gaps. <i>Materials Science in Semiconductor Processing</i> , 2015 , 40, 20-25 | 4.3 | 5 |
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