Dianping Tang

List of Publications by Year
in descending order

268 papers	22,697 citations	5268 83 h-index	11052 137 g-index
269 all docs	269 docs citations	269 times ranked	12145 citing authors

#	Article	IF	Citations
1	Recent Advances in Photoelectrochemical Sensing: From Engineered Photoactive Materials to Sensing Devices and Detection Modes. Analytical Chemistry, 2020, 92, 363-377.	6.5	614
2	Sandwich-type immunosensors and immunoassays exploiting nanostructure labels: A review. Analytica Chimica Acta, 2013, 758, 1-18.	5.4	409
3	Bioresponsive Release System for Visual Fluorescence Detection of Carcinoembryonic Antigen from Mesoporous Silica Nanocontainers Mediated Optical Color on Quantum Dot-Enzyme-Impregnated Paper. Analytical Chemistry, 2017, 89, 5152-5160.	6.5	405
4	DNA-Based Hybridization Chain Reaction for Amplified Bioelectronic Signal and Ultrasensitive Detection of Proteins. Analytical Chemistry, 2012, 84, 5392-5399.	6.5	381
5	ZIF-8-Assisted NaYF4:Yb,Tm@ZnO Converter with Exonuclease III-Powered DNA Walker for Near-Infrared Light Responsive Biosensor. Analytical Chemistry, 2020, 92, 1470-1476.	6.5	376
6	Ultrasensitive Electrochemical Immunosensor for Clinical Immunoassay Using Thionine-Doped Magnetic Gold Nanospheres as Labels and Horseradish Peroxidase as Enhancer. Analytical Chemistry, 2008, 80, 1582-1588.	6.5	366
7	Signal-On Photoelectrochemical Immunoassay for Aflatoxin B₁ Based on Enzymatic Product-Etching MnO₂ Nanosheets for Dissociation of Carbon Dots. Analytical Chemistry, 2017, 89, 5637-5645.	6.5	360
8	Near-Infrared-to-Ultraviolet Light-Mediated Photoelectrochemical Aptasensing Platform for Cancer Biomarker Based on Coreâ€"Shell NaYF₄:Yb,Tm@TiO₂ Upconversion Microrods. Analytical Chemistry, 2018, 90, 1021-1028.	6.5	321
9	Palindromic Molecular Beacon Based Z-Scheme BiOCl-Au-CdS Photoelectrochemical Biodetection. Analytical Chemistry, 2019, 91, 2447-2454.	6.5	318
10	Current Advances in Quantumâ€Dotsâ€Based Photoelectrochemical Immunoassays. Chemistry - an Asian Journal, 2017, 12, 2780-2789.	3.3	301
11	Paper Electrode-Based Flexible Pressure Sensor for Point-of-Care Immunoassay with Digital Multimeter. Analytical Chemistry, 2019, 91, 1222-1226.	6.5	278
12	Excitonâ€"Plasmon Interaction between AuNPs/Graphene Nanohybrids and CdS Quantum Dots/TiO₂ for Photoelectrochemical Aptasensing of Prostate-Specific Antigen. ACS Sensors, 2018, 3, 632-639.	7.8	277
13	Recent advances in photoelectrochemical biosensors for analysis of mycotoxins in food. TrAC - Trends in Analytical Chemistry, 2020, 124, 115814.	11.4	276
14	Platinum Nanozyme-Catalyzed Gas Generation for Pressure-Based Bioassay Using Polyaniline Nanowires-Functionalized Graphene Oxide Framework. Analytical Chemistry, 2018, 90, 12299-12306.	6.5	271
15	Near-Infrared Light-Excited Coreâ€"Coreâ€"Shell UCNP@Au@CdS Upconversion Nanospheres for Ultrasensitive Photoelectrochemical Enzyme Immunoassay. Analytical Chemistry, 2018, 90, 9568-9575.	6.5	267
16	Metal-Polydopamine Framework: An Innovative Signal-Generation Tag for Colorimetric Immunoassay. Analytical Chemistry, 2018, 90, 11099-11105.	6.5	260
17	CRISPR-Cas12a-driven MXene-PEDOT:PSS piezoresistive wireless biosensor. Nano Energy, 2021, 82, 105711.	16.0	260
18	Double Photosystems-Based â€˜Z-Schemeâ€™ Photoelectrochemical Sensing Mode for Ultrasensitive Detection of Disease Biomarker Accompanying Three-Dimensional DNA Walker. Analytical Chemistry, 2018, 90, 7086-7093.	6.5	259

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19	Dual-Channel Photoelectrochemical Ratiometric Aptasensor with up-Converting Nanocrystals Using Spatial-Resolved Technique on Homemade 3D Printed Device. Analytical Chemistry, 2019, 91, 1260-1268.	6.5	250
20	Reduced graphene oxide/BiFeO3 nanohybrids-based signal-on photoelectrochemical sensing system for prostate-specific antigen detection coupling with magnetic microfluidic device. Biosensors and Bioelectronics, 2018, 101, 146-152.	10.1	246
21	Nanoparticle-Based Sandwich Electrochemical Immunoassay for Carbohydrate Antigen 125 with Signal Enhancement Using Enzyme-Coated Nanometer-Sized Enzyme-Doped Silica Beads. Analytical Chemistry, 2010, 82, 1527-1534.	6.5	245
22	Bio-bar-code-based photoelectrochemical immunoassay for sensitive detection of prostate-specific antigen using rolling circle amplification and enzymatic biocatalytic precipitation. Biosensors and Bioelectronics, 2018, 101, 159-166.	10.1	241
23	Platinum-Decorated Gold Nanoparticles with Dual Functionalities for Ultrasensitive Colorimetric in Vitro Diagnostics. Nano Letters, 2017, 17, 5572-5579.	9.1	235
24	Magneto-Controlled Graphene Immunosensing Platform for Simultaneous Multiplexed Electrochemical Immunoassay Using Distinguishable Signal Tags. Analytical Chemistry, 2011, 83, 5407-5414.	6.5	230
25	Magnetic Coreâ"Shell Fe3O4@Ag Nanoparticles Coated Carbon Paste Interface for Studies of Carcinoembryonic Antigen in Clinical Immunoassay. Journal of Physical Chemistry B, 2006, 110, 11640-11646.	2.6	223
26	High-Resolution Colorimetric Assay for Rapid Visual Readout of Phosphatase Activity Based on Gold/Silver Core/Shell Nanorod. ACS Applied Materials & Interfaces, 2014, 6, 18243-18250.	8.0	217
27	Self-Powered Temperature Sensor with Seebeck Effect Transduction for Photothermalâ€"Thermoelectric Coupled Immunoassay. Analytical Chemistry, 2020, 92, 2809-2814.	6.5	214
28	CdS:Mn quantum dot-functionalized g-C3N4 nanohybrids as signal-generation tags for photoelectrochemical immunoassay of prostate specific antigen coupling DNAzyme concatamer with enzymatic biocatalytic precipitation. Biosensors and Bioelectronics, 2017, 95, 34-40.	10.1	210
29	Magnetic Bead-Based Reverse Colorimetric Immunoassay Strategy for Sensing Biomolecules. Analytical Chemistry, 2013, 85, 6945-6952.	6.5	209
30	Ti₃C₂ MXene quantum dot-encapsulated liposomes for photothermal immunoassays using a portable near-infrared imaging camera on a smartphone. Nanoscale, 2019, 11, 15659-15667.	5.6	209
31	Plasmonic Enhancement Coupling with Defect-Engineered TiO_{2â€"x}: A Mode for Sensitive Photoelectrochemical Biosensing. Analytical Chemistry, 2018, 90, 2425-2429.	6.5	208
32	Plasmonic AuNP/g-C₃N₄ Nanohybrid-based Photoelectrochemical Sensing Platform for Ultrasensitive Monitoring of Polynucleotide Kinase Activity Accompanying DNAzyme-Catalyzed Precipitation Amplification. ACS Applied Materials & Interfaces, 2015, 7, 8330-8338.	8.0	205
33	Branched Polyethylenimine-Modified Upconversion Nanohybrid-Mediated Photoelectrochemical Immunoassay with Synergistic Effect of Dual-Purpose Copper Ions. Analytical Chemistry, 2019, 91, 4149-4156.	6.5	204
34	In Situ Amplified Electrochemical Immunoassay for Carcinoembryonic Antigen Using Horseradish Peroxidase-Encapsulated Nanogold Hollow Microspheres as Labels. Analytical Chemistry, 2008, 80, 8064-8070.	6.5	202
35	CRISPR-Cas12a-Derived Photoelectrochemical Biosensor for Point-Of-Care Diagnosis of Nucleic Acid. Analytical Chemistry, 2022, 94, 7442-7448.	6.5	196
36	Facile Synthesis of Enhanced Fluorescent Goldâ€"Silver Bimetallic Nanocluster and Its Application for Highly Sensitive Detection of Inorganic Pyrophosphatase Activity. Analytical Chemistry, 2016, 88, 8886-8892.	6.5	190

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37	CoOOH nanosheets-coated g-C3N4/CuInS2 nanohybrids for photoelectrochemical biosensor of carcinoembryonic antigen coupling hybridization chain reaction with etching reaction. Sensors and Actuators B: Chemical, 2020, 307, 127631.	7.8	185
38	Wet NH₃-Triggered NH₂-MIL-125(Ti) Structural Switch for Visible Fluorescence Immunoassay Impregnated on Paper. Analytical Chemistry, 2018, 90, 14121-14125.	6.5	182
39	Pressure-Based Biosensor Integrated with a Flexible Pressure Sensor and an Electrochromic Device for Visual Detection. Analytical Chemistry, 2021, 93, 2916-2925.	6.5	181
40	Silver Nanolabels-Assisted Ion-Exchange Reaction with CdTe Quantum Dots Mediated Exciton Trapping for Signal-On Photoelectrochemical Immunoassay of Mycotoxins. Analytical Chemistry, 2016, 88, 7858-7866.	6.5	177
41	Liposome-Mediated In Situ Formation of Type-I Heterojunction for Amplified Photoelectrochemical Immunoassay. Analytical Chemistry, 2022, 94, 4859-4865.	6.5	176
42	Dopamine-Loaded Liposomes for in-Situ Amplified Photoelectrochemical Immunoassay of AFB₁ to Enhance Photocurrent of Mn²⁺-Doped Zn₃(OH)₂V₂O₇ Nanobelts. Analytical Chemistry, 2017, 89, 11803-11810.	6.5	169
43	Irregular-shaped platinum nanoparticles as peroxidase mimics for highly efficient colorimetric immunoassay. Analytica Chimica Acta, 2013, 776, 79-86.	5.4	163
44	Enzyme-controlled dissolution of MnO2 nanoflakes with enzyme cascade amplification for colorimetric immunoassay. Biosensors and Bioelectronics, 2017, 89, 645-651.	10.1	162
45	Versatile Synthesis of Hollow Metal Sulfides via Reverse Cation Exchange Reactions for Photocatalytic CO₂ Reduction. Angewandte Chemie - International Edition, 2021, 60, 25055-25062.	13.8	154
46	Exploiting Photoelectric Activities and Piezoelectric Properties of NaNbO₃ Semiconductors for Point-of-Care Immunoassay. Analytical Chemistry, 2022, 94, 3418-3426.	6.5	151
47	Eggshell membrane-templated synthesis of 3D hierarchical porous Au networks for electrochemical nonenzymatic glucose sensor. Biosensors and Bioelectronics, 2017, 96, 26-32.	10.1	150
48	Carbon Dots/g-C₃N₄ Nanoheterostructures-Based Signal-Generation Tags for Photoelectrochemical Immunoassay of Cancer Biomarkers Coupling with Copper Nanoclusters. ACS Applied Materials & Interfaces, 2017, 9, 38336-38343.	8.0	144
49	H₂-Based Electrochemical Biosensor with Pd Nanowires@ZIF-67 Molecular Sieve Bilayered Sensing Interface for Immunoassay. Analytical Chemistry, 2019, 91, 12055-12062.	6.5	140
50	Enzymatic Oxydate-Triggered Self-Illuminated Photoelectrochemical Sensing Platform for Portable Immunoassay Using Digital Multimeter. Analytical Chemistry, 2016, 88, 2958-2966.	6.5	138
51	Magnetic Control of an Electrochemical Microfluidic Device with an Arrayed Immunosensor for Simultaneous Multiple Immunoassays. Clinical Chemistry, 2007, 53, 1323-1329.	3.2	137
52	Enhanced Colorimetric Immunoassay Accompanying with Enzyme Cascade Amplification Strategy for Ultrasensitive Detection of Low-Abundance Protein. Scientific Reports, 2014, 4, 3966.	3.3	137
53	Urchin-like (gold core)@(platinum shell) nanohybrids: A highly efficient peroxidase-mimetic system for in situ amplified colorimetric immunoassay. Biosensors and Bioelectronics, 2015, 70, 194-201.	10.1	133
54	CdTe/CdSe quantum dot-based fluorescent aptasensor with hemin/G-quadruplex DNzyme for sensitive detection of lysozyme using rolling circle amplification and strand hybridization. Biosensors and Bioelectronics, 2017, 87, 18-24.	10.1	133

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55	Low-Cost and Highly Sensitive Immunosensing Platform for Aflatoxins Using One-Step Competitive Displacement Reaction Mode and Portable Glucometer-Based Detection. Analytical Chemistry, 2014, 86, 11451-11458.	6.5	128
56	Tyramine-Based Enzymatic Conjugate Repeats for Ultrasensitive Immunoassay Accompanying Tyramine Signal Amplification with Enzymatic Biocatalytic Precipitation. Analytical Chemistry, 2014, 86, 8352-8358.	6.5	127
57	Nanoparticle-based immunosensors and immunoassays for aflatoxins. Analytica Chimica Acta, 2016, 912, 10-23.	5.4	125
58	Self-Referenced Smartphone Imaging for Visual Screening of H₂S Using Cu_xO-Polypyrrole Conductive Aerogel Doped with Graphene Oxide Framework. Analytical Chemistry, 2018, 90, 9691-9694.	6.5	125
59	Platinum Nanozyme-Triggered Pressure-Based Immunoassay Using a Three-Dimensional Polypyrrole Foam-Based Flexible Pressure Sensor. ACS Applied Materials & Interfaces, 2020, 12, 40133-40140.	8.0	123
60	Homogeneous electrochemical detection of ochratoxin A in foodstuff using aptamerâ€"graphene oxide nanosheets and DNase I-based target recycling reaction. Biosensors and Bioelectronics, 2017, 89, 659-665.	10.1	122
61	Cu²⁺-Doped SnO₂ Nanograin/Polypyrrole Nanospheres with Synergic Enhanced Properties for Ultrasensitive Room-Temperature H₂S Gas Sensing. Analytical Chemistry, 2017, 89, 11135-11142.	6.5	122
62	Photoelectrochemical bioanalysis of antibiotics on rGO-Bi2WO6-Au based on branched hybridization chain reaction. Biosensors and Bioelectronics, 2019, 133, 100-106.	10.1	121
63	Chemiluminescence-Derived Self-Powered Photoelectrochemical Immunoassay for Detecting a Low-Abundance Disease-Related Protein. Analytical Chemistry, 2021, 93, 13389-13397.	6.5	118
64	Multiplexed electrochemical immunoassay of biomarkers using metal sulfide quantum dot nanolabels and trifunctionalized magnetic beads. Biosensors and Bioelectronics, 2013, 46, 37-43.	10.1	117
65	NaYF₄:Yb,Er Upconversion Nanotransducer with in Situ Fabrication of Ag₂S for Near-Infrared Light Responsive Photoelectrochemical Biosensor. Analytical Chemistry, 2018, 90, 12214-12220.	6.5	116
66	Semiautomated Support Photoelectrochemical Immunosensing Platform for Portable and High-Throughput Immunoassay Based on Au Nanocrystal Decorated Specific Crystal Facets BiVO₄ Photoanode. Analytical Chemistry, 2016, 88, 12539-12546.	6.5	107
67	A novel immunosensor based on immobilization of hepatitis B surface antibody on platinum electrode modified colloidal gold and polyvinyl butyral as matrices via electrochemical impedance spectroscopy. Bioelectrochemistry, 2004, 65, 15-22.	4.6	106
68	Single-atom platinum nanocatalyst-improved catalytic efficiency with enzyme-DNA supermolecular architectures. Nano Energy, 2020, 74, 104931.	16.0	103
69	Nanostructure-based photoelectrochemical sensing platforms for biomedical applications. Journal of Materials Chemistry B, 2020, 8, 2541-2561.	5.8	103
70	Label-free hairpin DNA-scaffolded silver nanoclusters for fluorescent detection of Hg2+ using exonuclease III-assisted target recycling amplification. Biosensors and Bioelectronics, 2016, 79, 411-415.	10.1	102
71	Novel photoelectrochemical immunosensor for disease-related protein assisted by hemin/G-quadruplex-based DNAzyme on gold nanoparticles to enhance cathodic photocurrent on p-CuBi2O4 semiconductor. Biosensors and Bioelectronics, 2017, 96, 317-323.	10.1	101
72	Glucose-loaded liposomes for amplified colorimetric immunoassay of streptomycin based on enzyme-induced iron(II) chelation reaction with phenanthroline. Sensors and Actuators B: Chemical, 2018, 265, 174-181.	7.8	101

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73	Hybridization chain reaction-based colorimetric aptasensor of adenosine 5â€²-triphosphate on unmodified gold nanoparticles and two label-free hairpin probes. Biosensors and Bioelectronics, 2017, 89, 1006-1012.	10.1	100
74	Enzymatic Hydrolysate-Induced Displacement Reaction with Multifunctional Silica Beads Doped with Horseradish Peroxidaseâ€"Thionine Conjugate for Ultrasensitive Electrochemical Immunoassay. Analytical Chemistry, 2015, 87, 8531-8540.	6.5	99
75	Nanoparticle-based immunoassays in the biomedical field. Analyst, The, 2013, 138, 981.	3.5	98
76	Facile Colorimetric Detection of Silver Ions with Picomolar Sensitivity. Analytical Chemistry, 2017, 89, 3622-3629.	6.5	98
77	Ultrasensitive Aptamer-Based Multiplexed Electrochemical Detection by Coupling Distinguishable Signal Tags with Catalytic Recycling of DNase I. Analytical Chemistry, 2011, 83, 7255-7259.	6.5	95
78	Target-Induced Nano-Enzyme Reactor Mediated Hole-Trapping for High-Throughput Immunoassay Based on a Split-Type Photoelectrochemical Detection Strategy. Analytical Chemistry, 2015, 87, 9473-9480.	6.5	93
79	Target-Induced Nanocatalyst Deactivation Facilitated by Core@Shell Nanostructures for Signal-Amplified Headspace-Colorimetric Assay of Dissolved Hydrogen Sulfide. Analytical Chemistry, 2015, 87, 10153-10160.	6.5	93
80	Magnetic Graphene Nanosheet-Based Microfluidic Device for Homogeneous Real-Time Electronic Monitoring of Pyrophosphatase Activity Using Enzymatic Hydrolysate-Induced Release of Copper Ion. Analytical Chemistry, 2016, 88, 1030-1038.	6.5	92
81	Anodicâ€Stripping Voltammetric Immunoassay for Ultrasensitive Detection of Lowâ€Abundance Proteins Using Quantum Dot Aggregated Hollow Microspheres. Chemistry - A European Journal, 2013, 19, 2496-2503.	3.3	91
82	Saw-Toothed Microstructure-Based Flexible Pressure Sensor as the Signal Readout for Point-of-Care Immunoassay. ACS Sensors, 2019, 4, 2272-2276.	7.8	91
83	Size-Controlled Engineering Photoelectrochemical Biosensor for Human Papillomavirus-16 Based on CRISPR-Cas12a-Induced Disassembly of Z-Scheme Heterojunctions. ACS Sensors, 2022, 7, 1593-1601.	7.8	91
84	Ultrasensitive Electrochemical Immunoassay of Staphylococcal Enterotoxin B in Food Using Enzyme-Nanosilica-Doped Carbon Nanotubes for Signal Amplification. Journal of Agricultural and Food Chemistry, 2010, 58, 10824-10830.	5.2	88
85	CRISPR/Cas12a-mediated liposome-amplified strategy for the photoelectrochemical detection of nucleic acid. Chemical Communications, 2021, 57, 8977-8980.	4.1	87
86	Palindromic Fragment-Mediated Single-Chain Amplification: An Innovative Mode for Photoelectrochemical Bioassay. Analytical Chemistry, 2019, 91, 7835-7841.	6.5	85
87	Optical transformation of a CdTe quantum dot-based paper sensor for a visual fluorescence immunoassay induced by dissolved silver ions. Journal of Materials Chemistry B, 2017, 5, 826-833.	5.8	84
88	Gold nanoparticles-decorated amine-terminated poly(amidoamine) dendrimer for sensitive electrochemical immunoassay of brevetoxins in food samples. Biosensors and Bioelectronics, 2011, 26, 2090-2096.	10.1	82
89	New amperometric and potentiometric immunosensors based on gold nanoparticles/tris(2,2â€²-bipyridyl)cobalt(III) multilayer films for hepatitis B surface antigen determinations. Biosensors and Bioelectronics, 2005, 21, 539-548.	10.1	79
90	Electrochemical immunosensor for carcinoembryonic antigen based on nanosilver-coated magnetic beads and gold-graphene nanolabels. Talanta, 2012, 91, 95-102.	5.5	79

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91	In Situ Generation of Electron Donor to Assist Signal Amplification on Porphyrin-Sensitized Titanium Dioxide Nanostructures for Ultrasensitive Photoelectrochemical Immunoassay. ACS Applied Materials & Interfaces, 2015, 7, 23812-23818.	8.0	78
92	High-index {hk0} faceted platinum concave nanocubes with enhanced peroxidase-like activity for an ultrasensitive colorimetric immunoassay of the human prostate-specific antigen. Analyst, The, 2017, 142, 911-917.	3.5	78
93	Electrocatalytic N₂-to-NH₃ conversion using oxygen-doped graphene: experimental and theoretical studies. Chemical Communications, 2019, 55, 7502-7505.	4.1	78
94	Plasmonic enhanced photoelectrochemical aptasensor with D-A F8BT/g-C3N4 heterojunction and AuNPs on a 3D-printed device. Sensors and Actuators B: Chemical, 2020, 310, 127874.	7.8	78
95	Contactless Photoelectrochemical Biosensor Based on the Ultravioletâ€"Assisted Gas Sensing Interface of Three-Dimensional SnS₂ Nanosheets: From Mechanism Reveal to Practical Application. Analytical Chemistry, 2022, 94, 9487-9495.	6.5	78
96	Ti3C2 MXene nanosheet-based capacitance immunoassay with tyramine-enzyme repeats to detect prostate-specific antigen on interdigitated micro-comb electrode. Electrochimica Acta, 2019, 319, 375-381.	5.2	77
97	In situ synthesis of fluorescent polydopamine nanoparticles coupled with enzyme-controlled dissolution of MnO₂ nanoflakes for a sensitive immunoassay of cancer biomarkers. Journal of Materials Chemistry B, 2017, 5, 8506-8513.	5.8	75
98	Liposome-amplified photoelectrochemical immunoassay for highly sensitive monitoring of disease biomarkers based on a split-type strategy. Biosensors and Bioelectronics, 2018, 99, 230-236.	10.1	75
99	Non-enzymatic electrochemical immunoassay using noble metal nanoparticles: a review. Mikrochimica Acta, 2015, 182, 2077-2089.	5.0	74
100	A perovskite La₂Ti₂O₇nanosheet as an efficient electrocatalyst for artificial N₂fixation to NH₃in acidic media. Chemical Communications, 2019, 55, 6401-6404.	4.1	74
101	Reduced graphene oxide-functionalized FeOOH for signal-on photoelectrochemical sensing of prostate-specific antigen with bioresponsive controlled release system. Biosensors and Bioelectronics, 2017, 98, 15-21.	10.1	73
102	Target-Induced Displacement Reaction Accompanying Cargo Release from Magnetic Mesoporous Silica Nanocontainers for Fluorescence Immunoassay. Analytical Chemistry, 2013, 85, 10589-10596.	6.5	72
103	Terbium ion-coordinated carbon dots for fluorescent aptasensing of adenosine 5â€²-triphosphate with unmodified gold nanoparticles. Biosensors and Bioelectronics, 2016, 86, 978-984.	10.1	72
104	Photoelectrochemical bioanalysis of microRNA on yolk-in-shell Au@CdS based on the catalytic hairpin assembly-mediated CRISPR-Cas12a system. Chemical Communications, 2022, 58, 7562-7565.	4.1	71
105	Hemin/G-quadruplex-based DNAzyme concatamers for in situ amplified impedimetric sensing of copper(II) ion coupling with DNAzyme-catalyzed precipitation strategy. Biosensors and Bioelectronics, 2015, 74, 1-7.	10.1	69
106	Novel Electrochemical Immunoassay for Quantitative Monitoring of Biotoxin Using Target-Responsive Cargo Release from Mesoporous Silica Nanocontainers. Analytical Chemistry, 2013, 85, 9245-9252.	6.5	68
107	Highly sensitive electrochemical sensing platform for lead ion based on synergetic catalysis of DNAzyme and Auâ€"Pd porous bimetallic nanostructures. Biosensors and Bioelectronics, 2016, 78, 236-243.	10.1	68
108	DNAzyme-functionalized goldâ€"palladium hybrid nanostructures for triple signal amplification of impedimetric immunosensor. Biosensors and Bioelectronics, 2014, 54, 365-371.	10.1	67

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109	Bioresponsive controlled release from mesoporous silica nanocontainers with glucometer readout. Chemical Communications, 2014, 50, 1441-1443.	4.1	66
110	Ultrasensitive and label-free electrochemical aptasensor of kanamycin coupling with hybridization chain reaction and strand-displacement amplification. Analytica Chimica Acta, 2018, 1038, 21-28.	5.4	66
111	Fenton reaction-based colorimetric immunoassay for sensitive detection of brevetoxin B. Biosensors and Bioelectronics, 2016, 80, 249-256.	10.1	64
112	Ligand-functionalized core/shell Ag@Au nanoparticles label-free amperometric immun-biosensor. Biotechnology and Bioengineering, 2006, 94, 996-1004.	3.3	62
113	Plasmonic resonance enhanced photoelectrochemical aptasensors based on g-C₃N₄/Bi₂MoO₆. Chemical Communications, 2018, 54, 7199-7202.	4.1	62
114	Novel 3D Printed Device for Dual-Signaling Ratiometric Photoelectrochemical Readout of Biomarker Using Î»-Exonuclease-Assisted Recycling Amplification. Analytical Chemistry, 2019, 91, 10049-10055.	6.5	62
115	All-solid-state metal-mediated Z-scheme photoelectrochemical immunoassay with enhanced photoexcited charge-separation for monitoring of prostate-specific antigen. Biosensors and Bioelectronics, 2019, 134, 1-7.	10.1	62
116	Dual-readout aptasensing of antibiotic residues based on gold nanocluster-functionalized MnO₂ nanosheets with target-induced etching reaction. Journal of Materials Chemistry B, 2018, 6, 8071-8077.	5.8	61
117	Liposome-Embedded Cu_{2â€“x}Ag_xS Nanoparticle-Mediated Photothermal Immunoassay for Daily Monitoring of cTnI Protein Using a Portable Thermal Imager. Analytical Chemistry, 2022, 94, 7408-7416.	6.5	61
118	Photoelectrochemical biosensing of disease marker on p-type Cu-doped Zn0.3Cd0.7S based on RCA and exonuclease III amplification. Biosensors and Bioelectronics, 2018, 117, 590-596.	10.1	60
119	CRISPR/Cas12a-based photoelectrochemical sensing of microRNA on reduced graphene oxide-anchored Bi2WO6 coupling with catalytic hairpin assembly. Sensors and Actuators B: Chemical, 2022, 369, 132307.	7.8	60
120	Nanoparticle-based pseudo hapten for target-responsive cargo release from a magnetic mesoporous silica nanocontainer. Chemical Communications, 2014, 50, 6256.	4.1	59
121	Amperometric aptasensor for saxitoxin using a gold electrode modified with carbon nanotubes on a self-assembled monolayer, and methylene blue as an electrochemical indicator probe. Mikrochimica Acta, 2016, 183, 1971-1980.	5.0	59
122	Invertase-labeling gold-dendrimer for in situ amplified detection mercury(II) with glucometer readout and thymineâ€“Hg 2+ â€“thymine coordination chemistry. Biosensors and Bioelectronics, 2016, 77, 681-686.	10.1	59
123	Non-enzymatic sensing of hydrogen peroxide using a glassy carbon electrode modified with a nanocomposite made from carbon nanotubes and molybdenum disulfide. Mikrochimica Acta, 2015, 182, 1803-1809.	5.0	58
124	Redox and catalysis â€˜all-in-oneâ€™ infinite coordination polymer for electrochemical immunosensor of tumor markers. Biosensors and Bioelectronics, 2015, 64, 6-12.	10.1	58
125	Ultrasensitive fluorometric biosensor based on Ti₃C₂ MXenes with Hg²⁺-triggered exonuclease III-assisted recycling amplification. Analyst, The, 2021, 146, 2664-2669.	3.5	55
126	Simultaneous determination of five-type hepatitis virus antigens in 5min using an integrated automatic electrochemical immunosensor array. Biosensors and Bioelectronics, 2010, 25, 1658-1662.	10.1	54

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127	Displacement-type Quartz Crystal Microbalance Immunosensing Platform for Ultrasensitive Monitoring of Small Molecular Toxins. Analytical Chemistry, 2013, 85, 6958-6966.	6.5	54
128	Graphene and Nanogoldâ€Functionalized Immunosensing Interface with Enhanced Sensitivity for Oneâ€Step Electrochemical Immunoassay of Alphaâ€Fetoprotein in Human Serum. Electroanalysis, 2010, 22, 2720-2728.	2.9	53
129	Sensitive electrochemical immunoassay of carcinoembryonic antigen with signal dual-amplification using glucose oxidase and an artificial catalase. Analytica Chimica Acta, 2011, 697, 16-22.	5.4	53
130	HCR-stimulated formation of DNAzyme concatamers on gold nanoparticle for ultrasensitive impedimetric immunoassay. Biosensors and Bioelectronics, 2015, 68, 487-493.	10.1	53
131	A three-dimensional DNA walker amplified FRET sensor for detection of telomerase activity based on the MnO₂nanosheet-upconversion nanoparticle sensing platform. Chemical Communications, 2019, 55, 9857-9860.	4.1	53
132	Electrochemical detection of hepatitis B surface antigen using colloidal gold nanoparticles modified by a solâ€"gel network interface. Clinical Biochemistry, 2006, 39, 309-314.	1.9	52
133	A New Electrochemical Biosensor for Determination of Hydrogen Peroxide in Food Based on Wellâ€Dispersive Gold Nanoparticles on Graphene Oxide. Electroanalysis, 2011, 23, 1821-1829.	2.9	52
134	Simple and sensitive detection of aflatoxin B1 within five minute using a non-conventional competitive immunosensing mode. Biosensors and Bioelectronics, 2015, 74, 680-686.	10.1	52
135	Cobalt-Porphyrin-Platinum-Functionalized Reduced Graphene Oxide Hybrid Nanostructures: A Novel Peroxidase Mimetic System For Improved Electrochemical Immunoassay. Scientific Reports, 2015, 5, 15113.	3.3	51
136	Liposome-coated mesoporous silica nanoparticles loaded with L-cysteine for photoelectrochemical immunoassay of aflatoxin B1. Mikrochimica Acta, 2018, 185, 311.	5.0	51
137	One-step electrochemical immunosensing for simultaneous detection of two biomarkers using thionine and ferrocene as distinguishable signal tags. Mikrochimica Acta, 2012, 178, 357-365.	5.0	50
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