Dianping Tang

List of Publications by Citations

255 papers	15,789 citations	72 h-index	113 g-index
269 ext. papers	19,368 ext. citations	7.2 avg, IF	7.7 L-index

#	Paper	IF	Citations
255	Ultrasensitive electrochemical immunosensor for clinical immunoassay using thionine-doped magnetic gold nanospheres as labels and horseradish peroxidase as enhancer. *Analytical Chemistry*, **2008**, 80, 1582-8	7.8	353
254	Sandwich-type immunosensors and immunoassays exploiting nanostructure labels: A review. *Analytica Chimica Acta*, **2013**, 758, 1-18	6.6	345
253	DNA-based hybridization chain reaction for amplified bioelectronic signal and ultrasensitive detection of proteins. *Analytical Chemistry*, **2012**, 84, 5392-9	7.8	342
252	Recent Advances in Photoelectrochemical Sensing: From Engineered Photoactive Materials to Sensing Devices and Detection Modes. *Analytical Chemistry*, **2020**, 92, 363-377	7.8	317
251	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	7.8	285
250	Signal-On Photoelectrochemical Immunoassay for Aflatoxin B Based on Enzymatic Product-Etching MnO Nanosheets for Dissociation of Carbon Dots. *Analytical Chemistry*, **2017**, 89, 5637-5645	7.8	266
249	Near-Infrared-to-Ultraviolet Light-Mediated Photoelectrochemical Aptasensing Platform for Cancer Biomarker Based on Core-Shell NaYF:Yb,Tm@TiO Upconversion Microrods. *Analytical Chemistry*, **2018**, 90, 1021-1028	7.8	245
248	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, 1527-34	7.8	234
247	Current Advances in Quantum-Dots-Based Photoelectrochemical Immunoassays. *Chemistry - an Asian Journal*, **2017**, 12, 2780-2789	4.5	221
246	Magneto-controlled graphene immunosensing platform for simultaneous multiplexed electrochemical immunoassay using distinguishable signal tags. *Analytical Chemistry*, **2011**, 83, 5407-14	7.8	221
245	Magnetic core-shell Fe3O4@Ag nanoparticles coated carbon paste interface for studies of carcinoembryonic antigen in clinical immunoassay. *Journal of Physical Chemistry B*, **2006**, 110, 11640-6	3.4	212
244	Palindromic Molecular Beacon Based Z-Scheme BiOCl-Au-CdS Photoelectrochemical Biodetection. *Analytical Chemistry*, **2019**, 91, 2447-2454	7.8	211
243	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	7.8	206
242	Paper Electrode-Based Flexible Pressure Sensor for Point-of-Care Immunoassay with Digital Multimeter. *Analytical Chemistry*, **2019**, 91, 1222-1226	7.8	201
241	Magnetic bead-based reverse colorimetric immunoassay strategy for sensing biomolecules. *Analytical Chemistry*, **2013**, 85, 6945-52	7.8	194
240	In situ amplified electrochemical immunoassay for carcinoembryonic antigen using horseradish peroxidase-encapsulated nanogold hollow microspheres as labels. *Analytical Chemistry*, **2008**, 80, 8064-70	7.8	189
239	High-resolution colorimetric assay for rapid visual readout of phosphatase activity based on gold/silver core/shell nanorod. *ACS Applied Materials & Interfaces*, **2014**, 6, 18243-50	9.5	183

238	Metal-Polydopamine Framework: An Innovative Signal-Generation Tag for Colorimetric Immunoassay. *Analytical Chemistry*, **2018**, 90, 11099-11105	7.8	182
237	Double Photosystems-Based Q-SchemeQPhotoelectrochemical Sensing Mode for Ultrasensitive Detection of Disease Biomarker Accompanying Three-Dimensional DNA Walker. *Analytical Chemistry*, **2018**, 90, 7086-7093	7.8	181
236	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	11.8	180
235	Near-Infrared Light-Excited Core-Core-Shell UCNP@Au@CdS Upconversion Nanospheres for Ultrasensitive Photoelectrochemical Enzyme Immunoassay. *Analytical Chemistry*, **2018**, 90, 9568-9575	7.8	179
234	Exciton-Plasmon Interaction between AuNPs/Graphene Nanohybrids and CdS Quantum Dots/TiO for Photoelectrochemical Aptasensing of Prostate-Specific Antigen. *ACS Sensors*, **2018**, 3, 632-639	9.2	173
233	Reduced graphene oxide/BiFeO nanohybrids-based signal-on photoelectrochemical sensing system for prostate-specific antigen detection coupling with magnetic microfluidic device. *Biosensors and Bioelectronics*, **2018**, 101, 146-152	11.8	173
232	Platinum Nanozyme-Catalyzed Gas Generation for Pressure-Based Bioassay Using Polyaniline Nanowires-Functionalized Graphene Oxide Framework. *Analytical Chemistry*, **2018**, 90, 12299-12306	7.8	173
231	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, 8330-8	9.5	171
230	Platinum-Decorated Gold Nanoparticles with Dual Functionalities for Ultrasensitive Colorimetric in Vitro Diagnostics. *Nano Letters*, **2017**, 17, 5572-5579	11.5	167
229	CdS:Mn quantum dot-functionalized g-CN 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	11.8	161
228	Plasmonic Enhancement Coupling with Defect-Engineered TiO: A Mode for Sensitive Photoelectrochemical Biosensing. *Analytical Chemistry*, **2018**, 90, 2425-2429	7.8	161
227	Dual-Channel Photoelectrochemical Ratiometric Aptasensor with up-Converting Nanocrystals Using Spatial-Resolved Technique on Homemade 3D Printed Device. *Analytical Chemistry*, **2019**, 91, 1260-1268	7.8	156
226	Recent advances in photoelectrochemical biosensors for analysis of mycotoxins in food. *TrAC - Trends in Analytical Chemistry*, **2020**, 124, 115814	14.6	147
225	Facile Synthesis of Enhanced Fluorescent Gold-Silver Bimetallic Nanocluster and Its Application for Highly Sensitive Detection of Inorganic Pyrophosphatase Activity. *Analytical Chemistry*, **2016**, 88, 8886-92	7.8	144
224	Irregular-shaped platinum nanoparticles as peroxidase mimics for highly efficient colorimetric immunoassay. *Analytica Chimica Acta*, **2013**, 776, 79-86	6.6	142
223	Branched Polyethylenimine-Modified Upconversion Nanohybrid-Mediated Photoelectrochemical Immunoassay with Synergistic Effect of Dual-Purpose Copper Ions. *Analytical Chemistry*, **2019**, 91, 4149-4156	7.8	135
222	Enzyme-controlled dissolution of MnO nanoflakes with enzyme cascade amplification for colorimetric immunoassay. *Biosensors and Bioelectronics*, **2017**, 89, 645-651	11.8	127
221	Silver Nanolabels-Assisted Ion-Exchange Reaction with CdTe Quantum Dots Mediated Exciton Trapping for Signal-On Photoelectrochemical Immunoassay of Mycotoxins. *Analytical Chemistry*, **2016**, 88, 7858-66	7.8	125

220	Eggshell membrane-templated synthesis of 3D hierarchical porous Au networks for electrochemical nonenzymatic glucose sensor. *Biosensors and Bioelectronics*, **2017**, 96, 26-32	11.8	123
219	Magnetic control of an electrochemical microfluidic device with an arrayed immunosensor for simultaneous multiple immunoassays. *Clinical Chemistry*, **2007**, 53, 1323-9	5.5	122
218	Dopamine-Loaded Liposomes for in-Situ Amplified Photoelectrochemical Immunoassay of AFB to Enhance Photocurrent of Mn-Doped Zn(OH)VO Nanobelts. *Analytical Chemistry*, **2017**, 89, 11803-11810	7.8	117
217	Enhanced colorimetric immunoassay accompanying with enzyme cascade amplification strategy for ultrasensitive detection of low-abundance protein. *Scientific Reports*, **2014**, 4, 3966	4.9	115
216	Self-Powered Temperature Sensor with Seebeck Effect Transduction for Photothermal-Thermoelectric Coupled Immunoassay. *Analytical Chemistry*, **2020**, 92, 2809-2814	7.8	114
215	Enzymatic Oxydate-Triggered Self-Illuminated Photoelectrochemical Sensing Platform for Portable Immunoassay Using Digital Multimeter. *Analytical Chemistry*, **2016**, 88, 2958-66	7.8	112
214	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, 11451-8	7.8	111
213	Tyramine-based enzymatic conjugate repeats for ultrasensitive immunoassay accompanying tyramine signal amplification with enzymatic biocatalytic precipitation. *Analytical Chemistry*, **2014**, 86, 8352-8	7.8	106
212	Carbon Dots/g-CN Nanoheterostructures-Based Signal-Generation Tags for Photoelectrochemical Immunoassay of Cancer Biomarkers Coupling with Copper Nanoclusters. *ACS Applied Materials & Interfaces*, **2017**, 9, 38336-38343	9.5	105
211	Homogeneous electrochemical detection of ochratoxin A in foodstuff using aptamer-graphene oxide nanosheets and DNase I-based target recycling reaction. *Biosensors and Bioelectronics*, **2017**, 89, 659-665	11.8	104
210	TiC MXene quantum dot-encapsulated liposomes for photothermal immunoassays using a portable near-infrared imaging camera on a smartphone. *Nanoscale*, **2019**, 11, 15659-15667	7.7	104
209	Multiplexed electrochemical immunoassay of biomarkers using metal sulfide quantum dot nanolabels and trifunctionalized magnetic beads. *Biosensors and Bioelectronics*, **2013**, 46, 37-43	11.8	104
208	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	11.8	102
207	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	11.8	102
206	Nanoparticle-based immunosensors and immunoassays for aflatoxins. *Analytica Chimica Acta*, **2016**, 912, 10-23	6.6	100
205	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	5.6	100
204	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	8.5	99
203	CRISPR-Cas12a-driven MXene-PEDOT:PSS piezoresistive wireless biosensor. *Nano Energy*, **2021**, 82, 105711	17.1	97

202	Cu-Doped SnO Nanograin/Polypyrrole Nanospheres with Synergic Enhanced Properties for Ultrasensitive Room-Temperature HS Gas Sensing. *Analytical Chemistry*, **2017**, 89, 11135-11142	7.8	92
201	Ultrasensitive aptamer-based multiplexed electrochemical detection by coupling distinguishable signal tags with catalytic recycling of DNase I. *Analytical Chemistry*, **2011**, 83, 7255-9	7.8	90
200	Wet NH-Triggered NH-MIL-125(Ti) Structural Switch for Visible Fluorescence Immunoassay Impregnated on Paper. *Analytical Chemistry*, **2018**, 90, 14121-14125	7.8	90
199	Anodic-stripping voltammetric immunoassay for ultrasensitive detection of low-abundance proteins using quantum dot aggregated hollow microspheres. *Chemistry - A European Journal*, **2013**, 19, 2496-503	4.8	87
198	Semiautomated Support Photoelectrochemical Immunosensing Platform for Portable and High-Throughput Immunoassay Based on Au Nanocrystal Decorated Specific Crystal Facets BiVO Photoanode. *Analytical Chemistry*, **2016**, 88, 12539-12546	7.8	86
197	NaYF:Yb,Er Upconversion Nanotransducer with in Situ Fabrication of AgS for Near-Infrared Light Responsive Photoelectrochemical Biosensor. *Analytical Chemistry*, **2018**, 90, 12214-12220	7.8	86
196	Self-Referenced Smartphone Imaging for Visual Screening of HS Using Cu O-Polypyrrole Conductive Aerogel Doped with Graphene Oxide Framework. *Analytical Chemistry*, **2018**, 90, 9691-9694	7.8	85
195	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	8.5	84
194	Nanoparticle-based immunoassays in the biomedical field. *Analyst, The*, **2013**, 138, 981-90	5	84
193	Enzymatic hydrolysate-induced displacement reaction with multifunctional silica beads doped with horseradish peroxidase-thionine conjugate for ultrasensitive electrochemical immunoassay. *Analytical Chemistry*, **2015**, 87, 8531-40	7.8	83
192	Label-free hairpin DNA-scaffolded silver nanoclusters for fluorescent detection of Hg□+ using exonuclease III-assisted target recycling amplification. *Biosensors and Bioelectronics*, **2016**, 79, 411-5	11.8	82
191	Novel photoelectrochemical immunosensor for disease-related protein assisted by hemin/G-quadruplex-based DNAzyme on gold nanoparticles to enhance cathodic photocurrent on p-CuBiO semiconductor. *Biosensors and Bioelectronics*, **2017**, 96, 317-323	11.8	80
190	Target-induced nano-enzyme reactor mediated hole-trapping for high-throughput immunoassay based on a split-type photoelectrochemical detection strategy. *Analytical Chemistry*, **2015**, 87, 9473-80	7.8	79
189	Pressure-Based Biosensor Integrated with a Flexible Pressure Sensor and an Electrochromic Device for Visual Detection. *Analytical Chemistry*, **2021**, 93, 2916-2925	7.8	78
188	Gold nanoparticles-decorated amine-terminated poly(amidoamine) dendrimer for sensitive electrochemical immunoassay of brevetoxins in food samples. *Biosensors and Bioelectronics*, **2011**, 26, 2090-6	11.8	76
187	Target-induced nanocatalyst deactivation facilitated by core@shell nanostructures for signal-amplified headspace-colorimetric assay of dissolved hydrogen sulfide. *Analytical Chemistry*, **2015**, 87, 10153-60	7.8	75
186	Hybridization chain reaction-based colorimetric aptasensor of adenosine 5Q-triphosphate on unmodified gold nanoparticles and two label-free hairpin probes. *Biosensors and Bioelectronics*, **2017**, 89, 1006-1012	11.8	75
185	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, 10824-30	5.7	75

184	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, 1030-8	7.8	74
183	Facile Colorimetric Detection of Silver Ions with Picomolar Sensitivity. *Analytical Chemistry*, **2017**, 89, 3622-3629	7.8	72
182	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, 23812-8	9.5	72
181	New amperometric and potentiometric immunosensors based on gold nanoparticles/tris(2,2′-bipyridyl)cobalt(III) multilayer films for hepatitis B surface antigen determinations. *Biosensors and Bioelectronics*, **2005**, 21, 539-48	11.8	72
180	Photoelectrochemical bioanalysis of antibiotics on rGO-BiWO-Au based on branched hybridization chain reaction. *Biosensors and Bioelectronics*, **2019**, 133, 100-106	11.8	69
179	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	7.3	68
178	Novel electrochemical immunoassay for quantitative monitoring of biotoxin using target-responsive cargo release from mesoporous silica nanocontainers. *Analytical Chemistry*, **2013**, 85, 9245-52	7.8	66
177	Electrochemical immunosensor for carcinoembryonic antigen based on nanosilver-coated magnetic beads and gold-graphene nanolabels. *Talanta*, **2012**, 91, 95-102	6.2	66
176	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	5	65
175	Target-induced displacement reaction accompanying cargo release from magnetic mesoporous silica nanocontainers for fluorescence immunoassay. *Analytical Chemistry*, **2013**, 85, 10589-96	7.8	65
174	Electrocatalytic N-to-NH conversion using oxygen-doped graphene: experimental and theoretical studies. *Chemical Communications*, **2019**, 55, 7502-7505	5.8	63
173	Terbium ion-coordinated carbon dots for fluorescent aptasensing of adenosine 5′-triphosphate with unmodified gold nanoparticles. *Biosensors and Bioelectronics*, **2016**, 86, 978-984	11.8	61
172	Bioresponsive controlled release from mesoporous silica nanocontainers with glucometer readout. *Chemical Communications*, **2014**, 50, 1441-3	5.8	60
171	Saw-Toothed Microstructure-Based Flexible Pressure Sensor as the Signal Readout for Point-of-Care Immunoassay. *ACS Sensors*, **2019**, 4, 2272-2276	9.2	59
170	DNAzyme-functionalized gold-palladium hybrid nanostructures for triple signal amplification of impedimetric immunosensor. *Biosensors and Bioelectronics*, **2014**, 54, 365-71	11.8	59
169	A perovskite LaTiO nanosheet as an efficient electrocatalyst for artificial N fixation to NH in acidic media. *Chemical Communications*, **2019**, 55, 6401-6404	5.8	58
168	Non-enzymatic electrochemical immunoassay using noble metal nanoparticles: a review. *Mikrochimica Acta*, **2015**, 182, 2077-2089	5.8	57
167	Highly sensitive electrochemical sensing platform for lead ion based on synergetic catalysis of DNAzyme and Au-Pd porous bimetallic nanostructures. *Biosensors and Bioelectronics*, **2016**, 78, 236-243	11.8	57

166	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	11.8	56
165	Ligand-functionalized core/shell Ag@Au nanoparticles label-free amperometric immun-biosensor. *Biotechnology and Bioengineering*, **2006**, 94, 996-1004	4.9	56
164	Platinum Nanozyme-Triggered Pressure-Based Immunoassay Using a Three-Dimensional Polypyrrole Foam-Based Flexible Pressure Sensor. *ACS Applied Materials & Interfaces*, **2020**, 12, 40133-40140	9.5	56
163	Nanoparticle-based pseudo hapten for target-responsive cargo release from a magnetic mesoporous silica nanocontainer. *Chemical Communications*, **2014**, 50, 6256-8	5.8	55
162	Liposome-amplified photoelectrochemical immunoassay for highly sensitive monitoring of disease biomarkers based on a split-type strategy. *Biosensors and Bioelectronics*, **2018**, 99, 230-236	11.8	54
161	H-Based Electrochemical Biosensor with Pd Nanowires@ZIF-67 Molecular Sieve Bilayered Sensing Interface for Immunoassay. *Analytical Chemistry*, **2019**, 91, 12055-12062	7.8	52
160	Redox and catalysis of all-in-one Cu infinite coordination polymer for electrochemical immunosensor of tumor markers. *Biosensors and Bioelectronics*, **2015**, 64, 6-12	11.8	52
159	Displacement-type quartz crystal microbalance immunosensing platform for ultrasensitive monitoring of small molecular toxins. *Analytical Chemistry*, **2013**, 85, 6958-66	7.8	52
158	Simultaneous determination of five-type hepatitis virus antigens in 5 min using an integrated automatic electrochemical immunosensor array. *Biosensors and Bioelectronics*, **2010**, 25, 1658-62	11.8	52
157	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	5.8	52
156	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	5.8	51
155	Fenton reaction-based colorimetric immunoassay for sensitive detection of brevetoxin B. *Biosensors and Bioelectronics*, **2016**, 80, 249-256	11.8	51
154	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	6.7	50
153	Graphene and Nanogold-Functionalized Immunosensing Interface with Enhanced Sensitivity for One-Step Electrochemical Immunoassay of Alpha-Fetoprotein in Human Serum. *Electroanalysis*, **2010**, 22, 2720-2728	3	50
152	In situ synthesis of fluorescent polydopamine nanoparticles coupled with enzyme-controlled dissolution of MnO nanoflakes for a sensitive immunoassay of cancer biomarkers. *Journal of Materials Chemistry B*, **2017**, 5, 8506-8513	7.3	49
151	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	11.8	49
150	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	11.8	48
149	Sensitive electrochemical immunoassay of carcinoembryonic antigen with signal dual-amplification using glucose oxidase and an artificial catalase. *Analytica Chimica Acta*, **2011**, 697, 16-22	6.6	48

148	Electrochemical detection of hepatitis B surface antigen using colloidal gold nanoparticles modified by a sol-gel network interface. *Clinical Biochemistry*, **2006**, 39, 309-14	3.5	48
147	Nanostructure-based photoelectrochemical sensing platforms for biomedical applications. *Journal of Materials Chemistry B*, **2020**, 8, 2541-2561	7.3	47
146	Plasmonic resonance enhanced photoelectrochemical aptasensors based on g-CN/BiMoO. *Chemical Communications*, **2018**, 54, 7199-7202	5.8	47
145	Layer-by-layer multienzyme assembly for highly sensitive electrochemical immunoassay based on tyramine signal amplification strategy. *Biosensors and Bioelectronics*, **2014**, 54, 323-8	11.8	46
144	Single-atom platinum nanocatalyst-improved catalytic efficiency with enzyme-DNA supermolecular architectures. *Nano Energy*, **2020**, 74, 104931	17.1	45
143	Invertase-labeling gold-dendrimer for in situ amplified detection mercury(II) with glucometer readout and thymine-Hg(2+)-thymine coordination chemistry. *Biosensors and Bioelectronics*, **2016**, 77, 681-6	11.8	45
142	One-step electrochemical immunosensing for simultaneous detection of two biomarkers using thionine and ferrocene as distinguishable signal tags. *Mikrochimica Acta*, **2012**, 178, 357-365	5.8	45
141	Photoelectrochemical biosensing of disease marker on p-type Cu-doped ZnCdS based on RCA and exonuclease III amplification. *Biosensors and Bioelectronics*, **2018**, 117, 590-596	11.8	45
140	Biotin-avidin-conjugated metal sulfide nanoclusters for simultaneous electrochemical immunoassay of tetracycline and chloramphenicol. *Mikrochimica Acta*, **2014**, 181, 257-262	5.8	44
139	HCR-stimulated formation of DNAzyme concatamers on gold nanoparticle for ultrasensitive impedimetric immunoassay. *Biosensors and Bioelectronics*, **2015**, 68, 487-493	11.8	44
138	A New Electrochemical Biosensor for Determination of Hydrogen Peroxide in Food Based on Well-Dispersive Gold Nanoparticles on Graphene Oxide. *Electroanalysis*, **2011**, 23, 1821-1829	3	44
137	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	8.5	43
136	Cobalt-Porphyrin-Platinum-Functionalized Reduced Graphene Oxide Hybrid Nanostructures: A Novel Peroxidase Mimetic System For Improved Electrochemical Immunoassay. *Scientific Reports*, **2015**, 5, 15113	4.9	43
135	Simple and sensitive detection of aflatoxin B1 within five minute using a non-conventional competitive immunosensing mode. *Biosensors and Bioelectronics*, **2015**, 74, 680-6	11.8	42
134	Nickel-functionalized reduced graphene oxide with polyaniline for non-enzymatic glucose sensing. *Mikrochimica Acta*, **2015**, 182, 625-631	5.8	42
133	Polyion oligonucleotide-decorated gold nanoparticles with tunable surface charge density for amplified signal output of potentiometric immunosensor. *Analytica Chimica Acta*, **2017**, 964, 67-73	6.6	40
132	Ultrasensitive and label-free electrochemical aptasensor of kanamycin coupling with hybridization chain reaction and strand-displacement amplification. *Analytica Chimica Acta*, **2018**, 1038, 21-28	6.6	40
131	Biochemical and immunochemical characterization of the antigen-antibody reaction on a non-toxic biomimetic interface immobilized red blood cells of crucian carp and gold nanoparticles. *Biosensors and Bioelectronics*, **2007**, 22, 1116-20	11.8	40

130	Liposome-coated mesoporous silica nanoparticles loaded with L-cysteine for photoelectrochemical immunoassay of aflatoxin B. *Mikrochimica Acta*, **2018**, 185, 311	5.8	39
129	Molecular Imprint for Electrochemical Detection of Streptomycin Residues Using Enzyme Signal Amplification. *Electroanalysis*, **2013**, 25, 531-537	3	39
128	Low-cost and highly efficient DNA biosensor for heavy metal ion using specific DNAzyme-modified microplate and portable glucometer-based detection mode. *Biosensors and Bioelectronics*, **2015**, 68, 232-238	11.8	39
127	An enzyme-free quartz crystal microbalance biosensor for sensitive glucose detection in biological fluids based on glucose/dextran displacement approach. *Analytica Chimica Acta*, **2011**, 686, 144-9	6.6	39
126	Palindromic Fragment-Mediated Single-Chain Amplification: An Innovative Mode for Photoelectrochemical Bioassay. *Analytical Chemistry*, **2019**, 91, 7835-7841	7.8	38
125	Photoelectrochemical sensing of hydrogen peroxide at zero working potential using a fluorine-doped tin oxide electrode modified with BiVO4 microrods. *Mikrochimica Acta*, **2017**, 184, 799-806	5.8	37
124	Amplified impedimetric immunosensor based on instant catalyst for sensitive determination of ochratoxin A. *Biosensors and Bioelectronics*, **2016**, 86, 386-392	11.8	37
123	Carbon nanospheres-promoted electrochemical immunoassay coupled with hollow platinum nanolabels for sensitivity enhancement. *Biosensors and Bioelectronics*, **2012**, 35, 394-400	11.8	37
122	A three-dimensional DNA walker amplified FRET sensor for detection of telomerase activity based on the MnO nanosheet-upconversion nanoparticle sensing platform. *Chemical Communications*, **2019**, 55, 9857-9860	5.8	36
121	Direct electrochemical immunoassay based on immobilization of protein-magnetic nanoparticle composites on to magnetic electrode surfaces by sterically enhanced magnetic field force. *Biotechnology Letters*, **2006**, 28, 559-65	3	36
120	Electron-Transfer Mediator Microbiosensor Fabrication Based on Immobilizing HRP-Labeled Au Colloids on Gold Electrode Surface by 11-Mercaptoundecanoic Acid Monolayer. *Electroanalysis*, **2006**, 18, 259-266	3	35
119	Mesoporous carbon-enriched palladium nanostructures with redox activity for enzyme-free electrochemical immunoassay of brevetoxin B. *Analytica Chimica Acta*, **2015**, 887, 67-74	6.6	34
118	Two-dimensional MoS as a nano-binder for ssDNA: Ultrasensitive aptamer based amperometric detection of Ochratoxin A. *Mikrochimica Acta*, **2018**, 185, 162	5.8	34
117	Novel glucometer-based immunosensing strategy suitable for complex systems with signal amplification using surfactant-responsive cargo release from glucose-encapsulated liposome nanocarriers. *Biosensors and Bioelectronics*, **2016**, 79, 508-14	11.8	34
116	Novel 3D Printed Device for Dual-Signaling Ratiometric Photoelectrochemical Readout of Biomarker Using Exonuclease-Assisted Recycling Amplification. *Analytical Chemistry*, **2019**, 91, 10049-10055	7.8	34
115	Novel potentiometric immunosensor for determination of diphtheria antigen based on compound nanoparticles and bilayer two-dimensional sol-gel as matrices. *Analytical and Bioanalytical Chemistry*, **2005**, 381, 674-80	4.4	34
114	Dual-readout aptasensing of antibiotic residues based on gold nanocluster-functionalized MnO nanosheets with target-induced etching reaction. *Journal of Materials Chemistry B*, **2018**, 6, 8071-8077	7.3	34
113	Potentiometric competitive immunoassay for determination of aflatoxin B1 in food by using antibody-labeled gold nanoparticles. *Mikrochimica Acta*, **2016**, 183, 2815-2822	5.8	33

112	Sensitive detection of hydrogen peroxide in foodstuff using an organic□inorganic hybrid multilayer-functionalized graphene biosensing platform. *Mikrochimica Acta*, **2011**, 174, 137-144	5.8	33
111	A new enzyme immunoassay for alpha-fetoprotein in a separate setup coupling an aluminium/Prussian blue-based self-powered electrochromic display with a digital multimeter readout. *Analyst, The*, **2018**, 143, 2992-2996	5	33
110	Amplified electrochemical sensing of lead ion based on DNA-mediated self-assembly-catalyzed polymerization. *Biosensors and Bioelectronics*, **2015**, 69, 230-4	11.8	32
109	Thionine/nanogold multilayer film for electrochemical immunoassay of alpha-fetoprotein in human serum using biofunctional double-codified gold nanoparticles. *Analytical Methods*, **2010**, 2, 1702	3.2	32
108	Target-induced formation of gold amalgamation on DNA-based sensing platform for electrochemical monitoring of mercury ion coupling with cycling signal amplification strategy. *Analytica Chimica Acta*, **2014**, 810, 10-6	6.6	31
107	Versatile Synthesis of Hollow Metal Sulfides via Reverse Cation Exchange Reactions for Photocatalytic CO Reduction. *Angewandte Chemie - International Edition*, **2021**, 60, 25055-25062	16.4	31
106	Enzyme-free amperometric glucose sensor using a glassy carbon electrode modified with poly(vinyl butyral) incorporating a hybrid nanostructure composed of molybdenum disulfide and copper sulfide. *Mikrochimica Acta*, **2017**, 184, 807-814	5.8	30
105	Chemiluminescence-Derived Self-Powered Photoelectrochemical Immunoassay for Detecting a Low-Abundance Disease-Related Protein. *Analytical Chemistry*, **2021**, 93, 13389-13397	7.8	29
104	Target-regulated proximity hybridization with three-way DNA junction for in situ enhanced electronic detection of marine biotoxin based on isothermal cycling signal amplification strategy. *Biosensors and Bioelectronics*, **2015**, 69, 241-8	11.8	28
103	Biometric-based tactile chemomechanical transduction: An adaptable strategy for portable bioassay. *Nano Energy*, **2020**, 71, 104580	17.1	28
102	Hierarchical dendritic gold microstructure-based aptasensor for ultrasensitive electrochemical detection of thrombin using functionalized mesoporous silica nanospheres as signal tags. *Analytica Chimica Acta*, **2012**, 720, 1-8	6.6	28
101	Novel quartz crystal microbalance immunodetection of aflatoxin B coupling cargo-encapsulated liposome with indicator-triggered displacement assay. *Analytica Chimica Acta*, **2018**, 1031, 161-168	6.6	27
100	A Graphene Platform for Sensitive Electrochemical Immunoassay of Carcinoembryoninc Antigen Based on Gold-Nanoflower Biolabels. *Electroanalysis*, **2011**, 23, 832-841	3	27
99	Carbon dots prepared from Litchi chinensis and modified with manganese dioxide nanosheets for use in a competitive fluorometric immunoassay for aflatoxin B. *Mikrochimica Acta*, **2018**, 185, 476	5.8	27
98	Liposome-Mediated Formation of Type-I Heterojunction for Amplified Photoelectrochemical Immunoassay.. *Analytical Chemistry*, **2022**,	7.8	26
97	Full-spectrum responsive photoelectrochemical immunoassay based on □-In2S3@carbon dot nanoflowers. *Electrochimica Acta*, **2020**, 332, 135473	6.7	25
96	In situ amplified electrochemical aptasensing for sensitive detection of adenosine triphosphate by coupling target-induced hybridization chain reaction with the assembly of silver nanotags. *Talanta*, **2016**, 146, 23-8	6.2	24
95	A conventional chemical reaction for use in an unconventional assay: A colorimetric immunoassay for aflatoxin B by using enzyme-responsive just-in-time generation of a MnO based nanocatalyst. *Mikrochimica Acta*, **2018**, 185, 92	5.8	24

94	Gold nanocatalyst-based immunosensing strategy accompanying catalytic reduction of 4-nitrophenol for sensitive monitoring of chloramphenicol residue. *Analytica Chimica Acta*, **2014**, 830, 42-8	6.6	24
93	Bismuth ferrite-based photoactive materials for the photoelectrochemical detection of disease biomarkers coupled with multifunctional mesoporous silica nanoparticles. *Journal of Materials Chemistry B*, **2017**, 5, 9600-9607	7.3	24
92	Metal-ion-induced DNAzyme on magnetic beads for detection of lead(II) by using rolling circle amplification, glucose oxidase, and readout of pH changes. *Mikrochimica Acta*, **2019**, 186, 318	5.8	23
91	In-situ amplified voltammetric immunoassay for ochratoxin A by coupling a platinum nanocatalyst based enhancement to a redox cycling process promoted by an enzyme mimic. *Mikrochimica Acta*, **2017**, 184, 2445-2453	5.8	22
90	A new visual immunoassay for prostate-specific antigen using near-infrared excited CuS nanocrystals and imaging on a smartphone. *Analyst, The*, **2019**, 144, 3716-3720	5	22
89	Magnetic bead-based photoelectrochemical immunoassay for sensitive detection of carcinoembryonic antigen using hollow cadmium sulfide. *Talanta*, **2020**, 219, 121215	6.2	22
88	Actuating photoelectrochemical sensing sensitivity coupling core-core-shell FeO@C@TiO with molecularly imprinted polypyrrole. *Talanta*, **2020**, 219, 121341	6.2	22
87	A non-enzyme cascade amplification strategy for colorimetric assay of disease biomarkers. *Chemical Communications*, **2017**, 53, 9055-9058	5.8	22
86	Novel colorimetric immunoassay for ultrasensitive monitoring of brevetoxin B based on enzyme-controlled chemical conversion of sulfite to sulfate. *Journal of Agricultural and Food Chemistry*, **2015**, 63, 1982-9	5.7	22
85	Electrochemical detection of hepatitis C virus with signal amplification using BamHI endonuclease and horseradish peroxidase-encapsulated nanogold hollow spheres. *Chemical Communications*, **2011**, 47, 9477-9	5.8	22
84	Quartz crystal microbalance immunoassay for carcinoma antigen 125 based on gold nanowire-functionalized biomimetic interface. *Analyst, The*, **2008**, 133, 933-8	5	22
83	Exploiting Photoelectric Activities and Piezoelectric Properties of NaNbO Semiconductors for Point-of-Care Immunoassay.. *Analytical Chemistry*, **2022**,	7.8	22
82	Etching reaction-based photoelectrochemical immunoassay of aflatoxin B in foodstuff using cobalt oxyhydroxide nanosheets-coating cadmium sulfide nanoparticles as the signal tags. *Analytica Chimica Acta*, **2019**, 1052, 49-56	6.6	22
81	Photoelectrochemical immunoassay of aflatoxin B in foodstuff based on amorphous TiO and CsPbBr perovskite nanocrystals. *Analyst, The*, **2019**, 144, 4880-4886	5	21
80	One-step electrochemical immunoassay of biomarker based on nanogold-functionalized graphene sensing platform. *Analytical Methods*, **2011**, 3, 1615	3.2	21
79	CRISPR/Cas12a-mediated liposome-amplified strategy for the photoelectrochemical detection of nucleic acid. *Chemical Communications*, **2021**, 57, 8977-8980	5.8	21
78	A surface plasmon resonance enhanced photoelectrochemical immunoassay based on perovskite metal oxide@gold nanoparticle heterostructures. *Analyst, The*, **2019**, 144, 5717-5723	5	20
77	Direct and Rapid Detection of Diphtherotoxin via Potentiometric Immunosensor Based on Nanoparticles Mixture and Polyvinyl Butyral as Matrixes. *Electroanalysis*, **2005**, 17, 2208-2216	3	20

76	Enzyme-Encapsulated DNA Hydrogel for Highly Efficient Electrochemical Sensing Glucose. *ChemElectroChem*, **2020**, 7, 1537-1541	4.3	19
75	Novel photoluminescence enzyme immunoassay based on supramolecular host-guest recognition using L-arginine/6-aza-2-thiothymine-stabilized gold nanocluster. *Biosensors and Bioelectronics*, **2018**, 109, 70-74	11.8	19
74	A chemiresistive thin-film translating biological recognition into electrical signals: an innovative signaling mode for contactless biosensing. *Chemical Communications*, **2019**, 55, 3262-3265	5.8	19
73	Horseradish peroxidase-encapsulated DNA nanoflowers: An innovative signal-generation tag for colorimetric biosensor. *Talanta*, **2021**, 221, 121600	6.2	19
72	DNA-based electrochemical determination of mercury(II) by exploiting the catalytic formation of gold amalgam and of silver nanoparticles. *Mikrochimica Acta*, **2016**, 183, 1805-1812	5.8	18
71	Hollow nanogold microsphere-signalized lateral flow immunodipstick for the sensitive determination of the neurotoxin brevetoxin B. *Mikrochimica Acta*, **2014**, 181, 1447-1454	5.8	18
70	Graphene oxide-gated mesoporous silica nanocontainers using aptamers for arsenite detection with glucometer readout. *Journal of Materials Chemistry B*, **2018**, 6, 6585-6591	7.3	18
69	Morphology-Invariant Metallic Nanoparticles with Tunable Plasmonic Properties. *ACS Nano*, **2021**, 15, 2428-2438	16.7	18
68	Competitive photometric and visual ELISA for aflatoxin B1 based on the inhibition of the oxidation of ABTS. *Mikrochimica Acta*, **2017**, 184, 2387-2394	5.8	17
67	Metal sulfide quantum dots-aggregated PAMAM dendrimer for cadmium ion-selective electrode-based immunoassay of alpha-fetoprotein. *Science China Chemistry*, **2018**, 61, 750-756	7.9	17
66	Pressure-Based Bioassay Perceived by a Flexible Pressure Sensor with Synergistic Enhancement of the Photothermal Effect.. *ACS Applied Bio Materials*, **2020**, 3, 9156-9163	4.1	17
65	Double ion-exchange reaction-based photoelectrochemical immunoassay for sensitive detection of prostate-specific antigen. *Analytica Chimica Acta*, **2021**, 1149, 338215	6.6	17
64	Isothermal cycling and cascade signal amplification strategy for ultrasensitive colorimetric detection of nucleic acids. *Mikrochimica Acta*, **2015**, 182, 449-454	5.8	16
63	Target-induced biomolecular release for sensitive aptamer-based electrochemical detection of small molecules from magnetic graphene. *RSC Advances*, **2011**, 1, 40	3.7	16
62	Potentiometric Immunosensor Based on Immobilization of Hepatitis B Surface Antibody on Platinum Electrode Modified Silver Colloids and Polyvinyl Butyral as Matrixes. *Electroanalysis*, **2005**, 17, 155-161	3	16
61	A polypyrrole-polydimethylsiloxane sponge-based compressible capacitance sensor with molecular recognition for point-of-care immunoassay. *Analyst, The*, **2020**, 145, 7186-7190	5	16
60	NiCoBP-doped carbon nanotube hybrid: a novel oxidase mimetic system for highly efficient electrochemical immunoassay. *Analytica Chimica Acta*, **2014**, 851, 49-56	6.6	15
59	Cadmium ion-doped magnetic poly(styrene-acrylic acid) nanospheres for sensitive electrochemical immunoassay. *Biosensors and Bioelectronics*, **2012**, 35, 461-465	11.8	15

58	Distance-dependent visual fluorescence immunoassay on CdTe quantum dot-impregnated paper through silver ion-exchange reaction. *Mikrochimica Acta*, **2020**, 187, 563	5.8	15
57	Ultrasensitive fluorometric biosensor based on TiC MXenes with Hg-triggered exonuclease III-assisted recycling amplification. *Analyst, The*, **2021**, 146, 2664-2669	5	15
56	Simultaneous Electrochemical Multiplexed Immunoassay of Biomarkers Based on Multifunctionalized Graphene Nanotags. *ChemElectroChem*, **2014**, 1, 441-447	4.3	14
55	Dual-Amplification of Antigen–Antibody Interactions via Backfilling Gold Nanoparticles on (3-Mercaptopropyl) Trimethoxysilane Sol-Gel Functionalized Interface. *Electroanalysis*, **2007**, 19, 479-486	3	14
54	Enhanced sensitivity of quartz crystal microbalance immunosensor via back-conjugation of biofunctionalized magnetic beads with an external magnetic field. *Biochemical Engineering Journal*, **2016**, 114, 276-282	4.2	14
53	Glucometer-based quantitative determination of Hg(II) using gold particle encapsulated invertase and strong thymine-Hg(II)-thymine interaction for signal amplification. *Mikrochimica Acta*, **2015**, 182, 1153-1159	5.8	13
52	In situ formation of (0 0 1)TiO2/Ti3C2 heterojunctions for enhanced photoelectrochemical detection of dopamine. *Electrochemistry Communications*, **2021**, 125, 106987	5.1	13
51	amplified QCM immunoassay for carcinoembryonic antigen with colorectal cancer using horseradish peroxidase nanospheres and enzymatic biocatalytic precipitation. *Analyst, The*, **2020**, 145, 6111-6118	5	12
50	In situ amplified photothermal immunoassay for neuron-specific enolase with enhanced sensitivity using Prussian blue nanoparticle-loaded liposomes. *Analyst, The*, **2020**, 145, 4164-4172	5	12
49	Nonenzymatic sensing of hydrogen peroxide using a glassy carbon electrode modified with graphene oxide, a polyamidoamine dendrimer, and with polyaniline deposited by the Fenton reaction. *Mikrochimica Acta*, **2018**, 185, 569	5.8	12
48	Signal-on photoelectrochemical immunoassay mediated by the etching reaction of oxygen/phosphorus co-doped g-CN/AgBr/MnO nanohybrids. *Analytica Chimica Acta*, **2021**, 1171, 338680	6.6	12
47	Recent advances in DNA walker machines and their applications coupled with signal amplification strategies: A critical review. *Analytica Chimica Acta*, **2021**, 1171, 338523	6.6	12
46	Homogeneous electrochemical immunoassay of aflatoxin B in foodstuff using proximity-hybridization-induced omega-like DNA junctions and exonuclease III-triggered isothermal cycling signal amplification. *Analytical and Bioanalytical Chemistry*, **2016**, 408, 8593-8601	4.4	11
45	Hairpin DNA-Dependent Click Conjugation of Oligonucleotides for Electrochemical Monitoring of Copper(II). *Electroanalysis*, **2015**, 27, 2513-2517	3	11
44	Digital multimeter-based immunosensing strategy for sensitive monitoring of biomarker by coupling an external capacitor with an enzymatic catalysis. *Biosensors and Bioelectronics*, **2014**, 55, 255-8	11.8	11
43	Biocatalysis-induced formation of BiOBr/Bi2S3 semiconductor heterostructures: A highly efficient strategy for establishing sensitive photoelectrochemical sensing system for organophosphorus pesticide detection. *Sensors and Actuators B: Chemical*, **2021**, 331, 129451	8.5	11
42	Bioresponsive controlled glucose release from TiO2 nanotube arrays: a simple and portable biosensing system for cocaine with a glucometer readout. *Journal of Materials Chemistry B*, **2017**, 5, 5573-5579	7.3	10
41	Ambient electrochemical N reduction to NH under alkaline conditions enabled by a layered KTiO nanobelt. *Chemical Communications*, **2019**, 55, 7546-7549	5.8	10

40	Highly sensitive electrochemical immunoassay for human IgG using double-encoded magnetic redox-active nanoparticles. *Mikrochimica Acta*, **2010**, 171, 457-464	5.8	10
39	Novel potentiometry immunoassay with amplified sensitivity for diphtheria antigen based on Nafion, colloidal Ag and polyvinyl butyral as matrixes. *Journal of Proteomics*, **2004**, 61, 299-311		10
38	Ultrasensitive split-type electrochemical sensing platform for sensitive determination of organophosphorus pesticides based on MnO nanoflower-electron mediator as a signal transduction system. *Analytical and Bioanalytical Chemistry*, **2020**, 412, 6939-6945	4.4	10
37	Thionine-doped nanometer-sized silica conjugated with phenylboronic acid: An innovative recognition/signal element for voltammetric aptasensing of colorectal cancer-related carcinoembryonic antigen. *Analytica Chimica Acta*, **2020**, 1136, 91-98	6.6	10
36	Graded oxygen-doped CdS electrode for portable photoelectrochemical immunoassay of alpha-fetoprotein coupling with a digital multimeter readout. *Sensors and Actuators B: Chemical*, **2021**, 343, 130136	8.5	10
35	Digital multimeter-based point-of-care immunoassay of prostate- specific antigen coupling with a flexible photosensitive pressure sensor. *Sensors and Actuators B: Chemical*, **2021**, 343, 130121	8.5	10
34	2D metal chalcogenides with surfaces fully covered with an organic "promoter" for high-performance biomimetic catalysis. *Chemical Communications*, **2019**, 55, 10444-10447	5.8	9
33	An Amperometric Biosensor for Glucose Based on Self-Assembling Nanoparticles and Electrosynthesis of Poly-o-Diaminobenzene on the Prussian Blue-Modified Gold Electrode. *Analytical Letters*, **2005**, 38, 1085-1097	2.2	9
32	Rolling circle amplification promoted magneto-controlled photoelectrochemical biosensor for organophosphorus pesticides based on dissolution of core-shell MnO nanoflower@CdS mediated by butyrylcholinesterase. *Mikrochimica Acta*, **2020**, 187, 450	5.8	9
31	Persistent luminescence nanorods-based autofluorescence-free biosensor for prostate-specific antigen detection. *Talanta*, **2021**, 233, 122563	6.2	9
30	Selective determination of 2,4,6-trinitrophenol by using a novel carbon nanoparticles as a fluorescent probe in real sample. *Analytical and Bioanalytical Chemistry*, **2020**, 412, 3083-3090	4.4	8
29	Multiplexed electrochemical immunoassay for two immunoglobulin proteins based on Cd and Cu nanocrystals. *Analyst, The*, **2017**, 142, 4794-4800	5	8
28	Click-Conjugation of Nanogold-Functionalized PAMAM Dendrimer: Toward a Novel Electrochemical Detection Platform. *Electroanalysis*, **2015**, 27, 2280-2285	3	8
27	Glucometer-based signal readout for a portable low-cost electrochemical immunoassay using branched platinum nanowires. *Analytical Methods*, **2016**, 8, 4069-4074	3.2	8
26	A 3D printing-based portable photoelectrochemical sensing device using a digital multimeter. *Analyst, The*, **2019**, 144, 5389-5393	5	7
25	Prussian blue-doped nanogold microspheres for enzyme-free electrocatalytic immunoassay of p53 protein. *Mikrochimica Acta*, **2014**, 181, 581-588	5.8	7
24	Magneto-controlled bioelectronics for the antigen-antibody interaction based on magnetic-core/gold-shell nanoparticles functionalized biomimetic interface. *Bioprocess and Biosystems Engineering*, **2008**, 31, 55-61	3.7	7
23	Facile and feasible conductometric immunoanalytical assay for alpha-fetoprotein using platinum-functionalized graphitic carbon nitride nanosheets. *Analytical Methods*, **2018**, 10, 4886-4893	3.2	6

22	Pressure-Based Immunoassays with Versatile Electronic Sensors for Carcinoembryonic Antigen Detection. *ACS Applied Materials & Interfaces*, **2021**, 13, 46440-46450	9.5	6
21	Biofunctional nanogold microsphere doped with Prussian blue nanoparticles for sensitive electrochemical immunoassay of cancer marker. *Analytical Methods*, **2014**, 6, 3442-3448	3.2	5
20	Highly Thiocyanate-Selective PVC Membrane Electrode Based on Lipophilic Ferrocene Derivative. *Electroanalysis*, **2005**, 17, 1865-1869	3	5
19	Graphene-coated copper-doped ZnO quantum dots for sensitive photoelectrochemical bioanalysis of thrombin triggered by DNA nanoflowers. *Journal of Materials Chemistry B*, **2021**, 9, 6818-6824	7.3	5
18	A novel colorimetric immunoassay based on enzyme-regulated instant generation of Turnbull® blue for the sensitive determination of ochratoxin A. *Analyst, The*, **2020**, 145, 2420-2424	5	4
17	Electrochemical Immunosensing Strategies Based on Immobilization of Anti-IgC on Mixed Self-Assembly Monolayers Carrying Surface Amide or Carboxyl Groups. *Analytical Letters*, **2006**, 39, 1809-1821	2.2	4
16	Highly sensitive potentiometric immunosensor for hepatitis B surface antigen diagnosis. *Science in China Series B: Chemistry*, **2005**, 48, 49-57		4
15	Ferroelectric perovskite-enhanced photoelectrochemical immunoassay with the photoexcited charge-transfer of a built-in electric field. *Journal of Materials Chemistry C*,	7.1	4
14	Au Nanoparticle-Decorated ZnO Microflower-Based Immunoassay for Photoelectrochemical Detection of Human Prostate-Specific Antigen. *ACS Applied Nano Materials*,	5.6	4
13	Ultrasensitive photoelectrochemical immunoassay for prostate-specific antigen based on silver nanoparticle-triggered ion-exchange reaction with ZnO/CdS nanorods. *Analyst, The*, **2021**, 146, 4487-4494	5	4
12	Bioinspired Self-Powered Piezoresistive Sensors for Simultaneous Monitoring of Human Health and Outdoor UV Light Intensity.. *ACS Applied Materials & Interfaces*, **2022**,	9.5	3
11	An ultrasensitive homogeneous electrochemical biosensor based on CRISPR-Cas12a. *Analytical Methods*, **2021**, 13, 3227-3232	3.2	3
10	Proximity Ligation Assay-induced Structure-switching Hairpin DNA toward Development of Electrochemical Immunosensor. *Electroanalysis*, **2016**, 28, 1777-1782	3	2
9	One-step Electronic Monitoring of Tetracycline Residue within 5 min Based on the Competitive Displacement Reaction between the Antigen and Pseudo Hapten for the Target Antibody. *Chemistry Letters*, **2015**, 44, 539-541	1.7	2
8	Highly sensitive fluorescent probe for selective detection of hypochlorite ions using nitrogen-fluorine co-doped carbon nanodots. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2021**, 250, 119231	4.4	2
7	Ultrasensitive zero-background photoelectrochemical biosensor for analysis of organophosphorus pesticide based on in situ formation of DNA-templated AgS photoactive materials. *Analytical and Bioanalytical Chemistry*, **2021**, 413, 6279-6288	4.4	2
6	Biocatalysis-mediated MOF-to-prussian blue transformation enabling sensitive detection of NSCLC-associated miRNAs with dual-readout signals.. *Biosensors and Bioelectronics*, **2022**, 206, 114139	11.8	2
5	Target-induced photocurrent-polarity-switching photoelectrochemical aptasensor with gold nanoparticle-ZnIn2S4 nanohybrids for the quantification of 8-hydroxy-2?-deoxyguanosine. *Sensors and Actuators B: Chemical*, **2022**, 368, 132141	8.5	2

4	A portable thermal detection method based on the target responsive hydrogel mediated self-heating of a warming pad. *Chemical Communications*, **2021**, 57, 9862-9865	5.8	1
3	Versatile Synthesis of Hollow Metal Sulfides via Reverse Cation Exchange Reactions for Photocatalytic CO2 Reduction. *Angewandte Chemie*, **2021**, 133, 25259	3.6	0
2	A novel colorimetric immunoassay for sensitive monitoring of ochratoxin A based on an enzyme-controlled citrate-iron(III) chelating system. *New Journal of Chemistry*, **2021**, 45, 11977-11982	3.6	0
1	New Insights on Potentiometric Immunosensor at Carbon Fiber Microelectrode for Alpha-Fetoprotein in Hepatocellular Carcinoma. *Electroanalysis*,	3	