

# Shiyun Ai

## List of Publications by Citations

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189  
papers

4,752  
citations

38  
h-index

54  
g-index

196  
ext. papers

5,596  
ext. citations

6.7  
avg, IF

6.14  
L-index

#	Paper	IF	Citations
189	A simple and sensitive fluorescent sensor for methyl parathion based on L-tyrosine methyl ester functionalized carbon dots. <i>Biosensors and Bioelectronics</i> , <b>2015</b> , 68, 20-26	11.8	174
188	Electrochemical oxidative determination of 4-nitrophenol based on a glassy carbon electrode modified with a hydroxyapatite nanopowder. <i>Mikrochimica Acta</i> , <b>2010</b> , 169, 87-92	5.8	138
187	Enhanced Photoelectrochemical Method for Sensitive Detection of Protein Kinase A Activity Using TiO <sub>2</sub> /g-CN, PAMAM Dendrimer, and Alkaline Phosphatase. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 2369-2376	7.8	129
186	Electrochemical behaviour of Sudan I at Fe <sub>3</sub> O <sub>4</sub> nanoparticles modified glassy carbon electrode and its determination in food samples. <i>Food Chemistry</i> , <b>2011</b> , 127, 1348-53	8.5	89
185	Photoelectrochemical biosensor for microRNA detection based on a MoS <sub>2</sub> /g-CN/black TiO <sub>2</sub> heterojunction with Histostar@AuNPs for signal amplification. <i>Biosensors and Bioelectronics</i> , <b>2019</b> , 128, 137-143	11.8	85
184	A Cu <sub>2</sub> (OH) <sub>3</sub> Cl-CeO <sub>2</sub> nanocomposite with peroxidase-like activity, and its application to the determination of hydrogen peroxide, glucose and cholesterol. <i>Mikrochimica Acta</i> , <b>2015</b> , 182, 1733-1738	5.8	83
183	Peroxidase-like activity of manganese selenide nanoparticles and its analytical application for visual detection of hydrogen peroxide and glucose. <i>Sensors and Actuators B: Chemical</i> , <b>2014</b> , 193, 255-262	8.5	80
182	Colorimetric sensing of dopamine based on the aggregation of gold nanoparticles induced by copper ions. <i>Analytical Methods</i> , <b>2012</b> , 4, 3981	3.2	69
181	Voltammetric sensing of paracetamol, dopamine and 4-aminophenol at a glassy carbon electrode coated with gold nanoparticles and an organophilic layered double hydroxide. <i>Mikrochimica Acta</i> , <b>2011</b> , 175, 39-46	5.8	66
180	Electrochemical behavior of bisphenol A at glassy carbon electrode modified with gold nanoparticles, silk fibroin, and PAMAM dendrimers. <i>Mikrochimica Acta</i> , <b>2010</b> , 170, 99-105	5.8	66
179	Photoelectrochemical immunosensor for methylated RNA detection based on g-CN/CdS quantum dots heterojunction and Phos-tag-biotin. <i>Biosensors and Bioelectronics</i> , <b>2017</b> , 95, 124-130	11.8	60
178	Ultrasensitive electrochemiluminescence immunosensor for 5-hydroxymethylcytosine detection based on FeO@SiO <sub>2</sub> nanoparticles and PAMAM dendrimers. <i>Biosensors and Bioelectronics</i> , <b>2018</b> , 99, 660-666	11.8	60
177	Electrochemical determination of microRNA-21 based on bio bar code and hemin/G-quadruplet DNAzyme. <i>Analyt, The</i> , <b>2013</b> , 138, 3409-15	5	59
176	A signal "on" photoelectrochemical biosensor for assay of protein kinase activity and its inhibitor based on graphite-like carbon nitride, Phos-tag and alkaline phosphatase. <i>Biosensors and Bioelectronics</i> , <b>2015</b> , 64, 462-8	11.8	58
175	Preparation of fluorescent graphene quantum dots from humic acid for bioimaging application. <i>New Journal of Chemistry</i> , <b>2015</b> , 39, 7054-7059	3.6	57
174	β-cyclodextrin-ferrocene host-guest complex multifunctional labeling triple amplification strategy for electrochemical immunoassay of subgroup J of avian leukosis viruses. <i>Biosensors and Bioelectronics</i> , <b>2013</b> , 45, 40-5	11.8	56
173	Photoelectrochemical immunosensor for microRNA detection based on gold nanoparticles-functionalized g-C <sub>3</sub> N <sub>4</sub> and anti-DNA:RNA antibody. <i>Sensors and Actuators B: Chemical</i> , <b>2016</b> , 222, 1119-1126	8.5	55

172	A sensitive fluorescent sensor for selective determination of dichlorvos based on the recovered fluorescence of carbon dots-Cu(II) system. <i>Food Chemistry</i> , <b>2016</b> , 202, 81-7	8.5	54
171	DNA methyltransferase activity assay based on visible light-activated photoelectrochemical biosensor. <i>Biosensors and Bioelectronics</i> , <b>2014</b> , 53, 263-7	11.8	52
170	Electrochemical oxidation behavior of bisphenol A at surfactant/layered double hydroxide modified glassy carbon electrode and its determination. <i>Journal of Solid State Electrochemistry</i> , <b>2011</b> , 15, 167-173	2.6	50
169	A novel signal-on strategy for M.Sssl methyltransfease activity analysis and inhibitor screening based on photoelectrochemical immunosensor. <i>Biosensors and Bioelectronics</i> , <b>2015</b> , 66, 109-14	11.8	49
168	Aptamer-based photoelectrochemical biosensor for antibiotic detection using ferrocene modified DNA as both aptamer and electron donor. <i>Sensors and Actuators B: Chemical</i> , <b>2018</b> , 266, 514-521	8.5	48
167	Evaluation of DNA damage and antioxidant capacity of sericin by a DNA electrochemical biosensor based on dendrimer-encapsulated Au-Pd/chitosan composite. <i>Mikrochimica Acta</i> , <b>2010</b> , 168, 347-354	5.8	48
166	Effective signal-on photoelectrochemical immunoassay of subgroup J avian leukosis virus based on Bi2S3 nanorods as photosensitizer and in situ generated ascorbic acid for electron donating. <i>Biosensors and Bioelectronics</i> , <b>2014</b> , 54, 237-43	11.8	46
165	Ultrasensitive Detection of Cancer Cells Combining Enzymatic Signal Amplification with an Aerolysin Nanopore. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 1029-1034	7.8	46
164	Two-stage cyclic enzymatic amplification method for ultrasensitive electrochemical assay of microRNA-21 in the blood serum of gastric cancer patients. <i>Biosensors and Bioelectronics</i> , <b>2016</b> , 79, 307-12	11.8	45
163	Recent advances on signal amplification strategies in photoelectrochemical sensing of microRNAs. <i>Biosensors and Bioelectronics</i> , <b>2020</b> , 166, 112476	11.8	45
162	Electrochemical biosensor for microRNA detection based on poly(U) polymerase mediated isothermal signal amplification. <i>Biosensors and Bioelectronics</i> , <b>2016</b> , 79, 79-85	11.8	44
161	Electrochemical immunosensor for N6-methyladenosine detection in human cell lines based on biotin-streptavidin system and silver-SiO signal amplification. <i>Biosensors and Bioelectronics</i> , <b>2017</b> , 90, 494-500	11.8	43
160	Innovative approach for the electrochemical detection of non-electroactive organophosphorus pesticides using oxime as electroactive probe. <i>Analytica Chimica Acta</i> , <b>2015</b> , 885, 92-7	6.6	42
159	Amplified electrochemical microRNA biosensor using a hemin-G-quadruplex complex as the sensing element. <i>RSC Advances</i> , <b>2012</b> , 2, 7140	3.7	42
158	Photoelectrochemical apta-biosensor for zeatin detection based on graphene quantum dots improved photoactivity of graphite-like carbon nitride and streptavidin induced signal inhibition. <i>Sensors and Actuators B: Chemical</i> , <b>2018</b> , 257, 237-244	8.5	41
157	A sensitive electrochemical biosensor for detection of protein kinase A activity and inhibitors based on Phos-tag and enzymatic signal amplification. <i>Biosensors and Bioelectronics</i> , <b>2015</b> , 63, 26-32	11.8	40
156	Nitrogen-doped photoluminescent carbon nanospheres: green, simple synthesis via hair and application as a sensor for Hg <sup>2+</sup> ions. <i>RSC Advances</i> , <b>2014</b> , 4, 37342	3.7	40
155	Electrochemical oxidation determination and voltammetric behaviour of 4-nitrophenol based on Cu <sub>2</sub> O nanoparticles modified glassy carbon electrode. <i>International Journal of Environmental Analytical Chemistry</i> , <b>2012</b> , 92, 742-754	1.8	40

154	A glassy carbon electrode modified with graphene and tyrosinase immobilized on platinum nanoparticles for sensing organophosphorus pesticides. <i>Mikrochimica Acta</i> , <b>2011</b> , 175, 129-135	5.8	40
153	Photoelectrochemical biosensor for 5hmC detection based on the photocurrent inhibition effect of ZnO on MoS/CN heterojunction. <i>Biosensors and Bioelectronics</i> , <b>2019</b> , 142, 111516	11.8	38
152	Electrochemical biosensor for protein kinase A activity assay based on gold nanoparticles-carbon nanospheres, phos-tag-biotin and $\beta$ -galactosidase. <i>Biosensors and Bioelectronics</i> , <b>2016</b> , 86, 508-515	11.8	38
151	Dual-signal amplified photoelectrochemical biosensor for detection of N-methyladenosine based on BiVO-110-TiO heterojunction, Ag-mediated cytosine pairs. <i>Biosensors and Bioelectronics</i> , <b>2018</b> , 108, 89-96	11.8	37
150	Electrochemical determination of Salmonella typhimurium by using aptamer-loaded gold nanoparticles and a composite prepared from a metal-organic framework (type UiO-67) and graphene. <i>Mikrochimica Acta</i> , <b>2019</b> , 186, 620	5.8	37
149	Photoelectrochemical biosensor for hydroxymethylated DNA detection and T4- $\beta$ -glucosyltransferase activity assay based on WS nanosheets and carbon dots. <i>Biosensors and Bioelectronics</i> , <b>2019</b> , 127, 38-44	11.8	37
148	Electrochemical immunosensor with nanocellulose-Au composite assisted multiple signal amplification for detection of avian leukosis virus subgroup J. <i>Biosensors and Bioelectronics</i> , <b>2018</b> , 101, 110-115	11.8	36
147	Electrochemical, electrochemiluminescent and photoelectrochemical bioanalysis of epigenetic modifiers: A comprehensive review. <i>Coordination Chemistry Reviews</i> , <b>2020</b> , 424, 213519	23.2	36
146	Copper nanoparticles modified graphitic carbon nitride nanosheets as a peroxidase mimetic for glucose detection. <i>RSC Advances</i> , <b>2015</b> , 5, 91302-91307	3.7	35
145	A sensitive photoelectrochemical immunoassay of N-methyladenosine based on dual-signal amplification strategy: Ru doped in SiO nanosphere and carboxylated g-CN. <i>Biosensors and Bioelectronics</i> , <b>2018</b> , 99, 281-288	11.8	35
144	A dual signal-on photoelectrochemical immunosensor for sensitively detecting target avian viruses based on AuNPs/g-CN coupling with CdTe quantum dots and in situ enzymatic generation of electron donor. <i>Biosensors and Bioelectronics</i> , <b>2019</b> , 124-125, 1-7	11.8	35
143	A novel electrochemiluminescence biosensor for the detection of 5-methylcytosine, TET 1 protein and $\beta$ -glucosyltransferase activities based on gold nanoclusters-H <sub>2</sub> O <sub>2</sub> system. <i>Sensors and Actuators B: Chemical</i> , <b>2018</b> , 274, 144-151	8.5	34
142	A novel photoelectrochemical biosensor for the sensitive detection of dual microRNAs using molybdenum carbide nanotubes as nanocarriers and energy transfer between CQDs and AuNPs. <i>Chemical Engineering Journal</i> , <b>2019</b> , 365, 351-357	14.7	33
141	Highly selective hydrogenation of $\alpha$ -unsaturated aldehydes by Pt catalysts supported on Fe-based layered double hydroxides and derived mixed metal oxides. <i>Catalysis Science and Technology</i> , <b>2016</b> , 6, 703-707	5.5	33
140	Recent Advances in Ionic Liquid-Mediated SO <sub>2</sub> Capture. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2019</b> , 58, 13804-13818	3.9	33
139	Protein-directed in situ synthesis of platinum nanoparticles with superior peroxidase-like activity, and their use for photometric determination of hydrogen peroxide. <i>Mikrochimica Acta</i> , <b>2013</b> , 180, 1517-1522	5.8	33
138	MicroRNA-21 detection based on molecular switching by amperometry. <i>New Journal of Chemistry</i> , <b>2012</b> , 36, 1985	3.6	33
137	Sensitive voltammetric determination of rutin in pharmaceuticals, human serum, and traditional Chinese medicines using a glassy carbon electrode coated with graphene nanosheets, chitosan, and a poly(amido amine) dendrimer. <i>Mikrochimica Acta</i> , <b>2011</b> , 173, 337-345	5.8	33

136	A Novel Electrochemical Immunosensor Based on Mesoporous Graphitic Carbon Nitride for Detection of Subgroup J of Avian Leukosis Viruses. <i>Electrochimica Acta</i> , <b>2016</b> , 205, 95-101	6.7	32
135	Green and gentle synthesis of Cu2O nanoparticles using lignin as reducing and capping reagent with antibacterial properties. <i>Journal of Experimental Nanoscience</i> , <b>2016</b> , 11, 18-27	1.9	32
134	Nonenzymatic sensing of methyl parathion based on graphene/gadolinium Prussian Blue analogue nanocomposite modified glassy carbon electrode. <i>Analytical Methods</i> , <b>2014</b> , 6, 2157	3.2	32
133	Fe-doped biochar derived from waste sludge for degradation of rhodamine B via enhancing activation of peroxymonosulfate. <i>Chemosphere</i> , <b>2020</b> , 261, 127616	8.4	32
132	Electrochemical aptasensor for ampicillin detection based on the protective effect of aptamer-antibiotic conjugate towards DpnII and Exo III digestion. <i>Talanta</i> , <b>2019</b> , 197, 42-48	6.2	32
131	Electrochemical aptasensing strategy for kanamycin detection based on target-triggered single-strand DNA adsorption on MoS2 nanosheets and enzymatic signal amplification. <i>Sensors and Actuators B: Chemical</i> , <b>2019</b> , 296, 126664	8.5	31
130	Anion-intercalated layered double hydroxides modified test strips for detection of heavy metal ions. <i>Talanta</i> , <b>2016</b> , 148, 301-7	6.2	31
129	Electrochemical determination of malachite green at graphene quantum dots/gold nanoparticles multilayers-modified glassy carbon electrode. <i>Journal of Applied Electrochemistry</i> , <b>2013</b> , 43, 689-696	2.6	31
128	Signal-on electrochemiluminescence biosensor for microRNA-319a detection based on two-stage isothermal strand-displacement polymerase reaction. <i>Biosensors and Bioelectronics</i> , <b>2018</b> , 107, 34-39	11.8	30
127	DNA methyltransferase detection based on digestion triggering the combination of poly adenine DNA with gold nanoparticles. <i>Biosensors and Bioelectronics</i> , <b>2016</b> , 80, 74-78	11.8	30
126	Fluorometric determination of microRNA based on strand displacement amplification and rolling circle amplification. <i>Mikrochimica Acta</i> , <b>2017</b> , 184, 4359-4365	5.8	30
125	Photoelectrochemical Biosensor for DNA Formylation Detection in Genomic DNA of Maize Seedlings Based on Black TiO-Enhanced Photoactivity of MoS/WS Heterojunction. <i>ACS Sensors</i> , <b>2020</b> , 5, 1092-1101	9.2	29
124	Polydopamine-sensitized WS2/black-TiO2 heterojunction for histone acetyltransferase detection with enhanced visible-light-driven photoelectrochemical activity. <i>Chemical Engineering Journal</i> , <b>2020</b> , 393, 124707	14.7	29
123	Electrochemical immunosensor for N6-methyladenosine RNA modification detection. <i>Sensors and Actuators B: Chemical</i> , <b>2015</b> , 221, 1-6	8.5	26
122	Multifunctional Fe3O4@core/Ni-Al layered double hydroxides shell nanospheres as labels for ultrasensitive electrochemical immunoassay of subgroup J of avian leukosis virus. <i>Biosensors and Bioelectronics</i> , <b>2012</b> , 37, 107-111	11.8	26
121	Electrochemical determination of methyl parathion using poly(malachite green)/graphene nanosheets/afion composite film-modified glassy carbon electrode. <i>Journal of Applied Electrochemistry</i> , <b>2012</b> , 42, 509-516	2.6	26
120	Room temperature synthesis of zinc hydroxystannate hollow core-shell microspheres and their hydrothermal growth of hollow core-shell polyhedral microcrystals. <i>CrystEngComm</i> , <b>2011</b> , 13, 113-117	3.3	26
119	Highly flexible and stable carbon nitride/cellulose acetate porous films with enhanced photocatalytic activity for contaminants removal from wastewater. <i>Journal of Hazardous Materials</i> , <b>2020</b> , 384, 121417	12.8	26

118	Photoelectrochemical immunosensor for N-methyladenine detection based on Ru@UiO-66, BiO and Black TiO. <i>Biosensors and Bioelectronics</i> , <b>2019</b> , 131, 163-170	11.8	26
117	Photoelectrochemical biosensor for protein kinase A detection based on carbon microspheres, peptide functionalized Au-ZIF-8 and TiO/g-CN. <i>Talanta</i> , <b>2019</b> , 196, 197-203	6.2	25
116	Aptamer based voltammetric determination of ampicillin using a single-stranded DNA binding protein and DNA functionalized gold nanoparticles. <i>Mikrochimica Acta</i> , <b>2017</b> , 185, 68	5.8	25
115	Investigation of the effect of phytohormone on the expression of microRNA-159a in Arabidopsis thaliana seedlings based on mimic enzyme catalysis systematic electrochemical biosensor. <i>Biosensors and Bioelectronics</i> , <b>2014</b> , 54, 244-50	11.8	25
114	Photoelectrochemical detection of 5-hydroxymethylcytosine in genomic DNA based on M. HhaI methyltransferase catalytic covalent bonding. <i>Chemical Engineering Journal</i> , <b>2019</b> , 357, 94-102	14.7	25
113	Electrochemical detection of protein kinase activity based on carboxypeptidase Y digestion triggered signal amplification. <i>Biosensors and Bioelectronics</i> , <b>2015</b> , 66, 77-83	11.8	24
112	Photoelectrochemical biosensor for HEN1 RNA methyltransferase detection using peroxidase mimics PtCu NFs and poly(U) polymerase-mediated RNA extension. <i>Biosensors and Bioelectronics</i> , <b>2018</b> , 103, 32-38	11.8	24
111	Quantum dot immobilized acetylcholinesterase for the determination of organophosphate pesticides using graphene-chitosan nanocomposite modified electrode. <i>Analytical Methods</i> , <b>2013</b> , 5, 2866	3.2	24
110	Recyclable polyvinyl alcohol sponge containing flower-like layered double hydroxide microspheres for efficient removal of As(V) anions and anionic dyes from water. <i>Journal of Hazardous Materials</i> , <b>2019</b> , 367, 286-292	12.8	24
109	Decoration of surface-carboxylated graphene oxide with luminescent Sm <sup>3+</sup> -complexes. <i>Journal of Materials Science</i> , <b>2014</b> , 49, 2672-2679	4.3	23
108	Photoelectrochemical biosensor for histone acetyltransferase detection based on ZnO quantum dots inhibited photoactivity of BiOI nanoflower. <i>Sensors and Actuators B: Chemical</i> , <b>2020</b> , 307, 127633	8.5	23
107	Tungsten disulfide (WS) nanosheet-based photoelectrochemical aptasensing of chloramphenicol. <i>Mikrochimica Acta</i> , <b>2018</b> , 185, 453	5.8	23
106	A novel photoelectrochemical biosensor for protein kinase activity assay based on phosphorylated graphite-like carbon nitride. <i>Analytica Chimica Acta</i> , <b>2016</b> , 934, 36-43	6.6	22
105	Visible-light induced photoelectrochemical biosensor for the detection of microRNA based on Bi <sub>2</sub> S <sub>3</sub> nanorods and streptavidin on an ITO electrode. <i>Mikrochimica Acta</i> , <b>2015</b> , 182, 241-248	5.8	22
104	Ultrasensitive electrochemical immunosensor for avian leukosis virus detection based on a Cyclodextrin-nanogold-ferrocene host-guest label for signal amplification. <i>Analytica Chimica Acta</i> , <b>2019</b> , 1062, 87-93	6.6	21
103	Photocatalytic activity of one-dimensional Ag <sub>2</sub> V <sub>4</sub> O <sub>11</sub> nanowires in the degradation of bisphenol a under visible-light irradiation. <i>Research on Chemical Intermediates</i> , <b>2015</b> , 41, 3683-3697	2.8	21
102	Detection of cancer cells using triplex DNA molecular beacons based on expression of enhanced green fluorescent protein (eGFP). <i>Chemical Communications</i> , <b>2014</b> , 50, 9547-9	5.8	21
101	Electrochemical oxidation behavior of 2,4-dinitrophenol at hydroxylapatite film-modified glassy carbon electrode and its determination in water samples. <i>Journal of Solid State Electrochemistry</i> , <b>2012</b> , 16, 75-82	2.6	21

100	Iron nanoparticles in situ encapsulated in lignin-derived hydrochar as an effective catalyst for phenol removal. <i>Environmental Science and Pollution Research</i> , <b>2018</b> , 25, 20833-20840	5.1	21
99	Label-free, Ultrasensitive and Electrochemical Immunosensing Platform for microRNA Detection Using Anti-DNA:RNA Hybrid Antibody and Enzymatic Signal Amplification. <i>Electrochimica Acta</i> , <b>2015</b> , 165, 130-135	6.7	20
98	A simple aptamer-based fluorescent aflatoxin B1 sensor using humic acid as quencher. <i>Talanta</i> , <b>2019</b> , 205, 120131	6.2	20
97	An efficient electrochemical disinfection of E. coli and S. aureus in drinking water using ferrocene/PAMAM/multiwalled carbon nanotubes/chitosan nanocomposite modified pyrolytic graphite electrode. <i>Journal of Solid State Electrochemistry</i> , <b>2013</b> , 17, 1685-1691	2.6	19
96	Electrochemical behavior of antipyrine at a Bi <sub>2</sub> S <sub>3</sub> modified glassy carbon electrode and its determination in pharmaceutical formulations. <i>Analytical Methods</i> , <b>2012</b> , 4, 1736	3.2	19
95	The immobilization of Cytochrome c on MWNT/PAMAM/chit nanocomposite incorporated with DNA biocomposite film modified glassy carbon electrode for the determination of nitrite. <i>Journal of Solid State Electrochemistry</i> , <b>2010</b> , 14, 1681-1688	2.6	19
94	Preparation of P-g-CN-WS nanocomposite and its application in photoelectrochemical detection of 5-formylcytosine. <i>Journal of Colloid and Interface Science</i> , <b>2020</b> , 561, 348-357	9.3	19
93	Applications of two-dimensional layered nanomaterials in photoelectrochemical sensors: A comprehensive review. <i>Coordination Chemistry Reviews</i> , <b>2021</b> , 447, 214156	23.2	19
92	Substrate-free and label-free electrocatalysis-assisted biosensor for sensitive detection of microRNA in lung cancer cells. <i>Chemical Communications</i> , <b>2019</b> , 55, 1172-1175	5.8	18
91	Enzyme-based electrochemical biosensor for sensitive detection of DNA demethylation and the activity of DNA demethylase. <i>Analytica Chimica Acta</i> , <b>2014</b> , 840, 28-32	6.6	18
90	Amperometric biosensor based on tyrosinase immobilized in hydrotalcite-like compounds film for the determination of polyphenols. <i>Journal of Solid State Electrochemistry</i> , <b>2012</b> , 16, 449-456	2.6	18
89	Electrochemical immunoassay for subgroup J of avian leukosis viruses using a glassy carbon electrode modified with a film of poly (3-thiophene boronic acid), gold nanoparticles, graphene and immobilized antibody. <i>Mikrochimica Acta</i> , <b>2012</b> , 179, 227-234	5.8	18
88	Electrochemical aptasensor for sulfadimethoxine detection based on the triggered cleavage activity of nuclease P1 by aptamer-target complex. <i>Talanta</i> , <b>2019</b> , 204, 409-414	6.2	17
87	G-quadruplex functionalized nano mesoporous silica for assay of the DNA methyltransferase activity. <i>Analytica Chimica Acta</i> , <b>2015</b> , 879, 34-40	6.6	17
86	Pd nanoparticles supported on nitrogen, sulfur-doped three-dimensional hierarchical nanostructures as peroxidase-like catalysts for colorimetric detection of xanthine. <i>RSC Advances</i> , <b>2015</b> , 5, 32183-32190	3.7	17
85	Poly-(3-thiopheneacetic acid) coated Fe <sub>3</sub> O <sub>4</sub> @LDHs magnetic nanospheres as a photocatalyst for the efficient photocatalytic disinfection of pathogenic bacteria under solar light irradiation. <i>New Journal of Chemistry</i> , <b>2013</b> , 37, 2509	3.6	17
84	Electrochemical determination of NADH using a glassy carbon electrode modified with Fe <sub>3</sub> O <sub>4</sub> nanoparticles and poly-2,6-pyridinedicarboxylic acid, and its application to the determination of antioxidant capacity. <i>Mikrochimica Acta</i> , <b>2011</b> , 174, 31-39	5.8	17
83	Amperometric nitrite biosensor based on a gold electrode modified with cytochrome c on Nafion and Cu-Mg-Al layered double hydroxides. <i>Mikrochimica Acta</i> , <b>2010</b> , 171, 385-392	5.8	17

82	Core-shell structured CaS:Eu <sup>2+</sup> @CaZnOS via inward erosion growth to realize a super stable chalcogenide red phosphor. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 5931-5936	7.1	16
81	Photoelectrochemical biosensor for highly sensitive detection of microRNA based on duplex-specific nuclease-triggered signal amplification. <i>Journal of Solid State Electrochemistry</i> , <b>2015</b> , 19, 1301-1309	2.6	16
80	Electrochemical biosensor for DNA demethylase detection based on demethylation triggered endonuclease BstUI and Exonuclease III digestion. <i>Biosensors and Bioelectronics</i> , <b>2015</b> , 66, 266-70	11.8	16
79	Electrochemical immunoassays for the detection the activity of DNA methyltransferase by using the rolling circle amplification technique. <i>Mikrochimica Acta</i> , <b>2014</b> , 181, 471-477	5.8	16
78	Electrochemical determination of nonylphenol based on ionic liquid-functionalized graphene nanosheet modified glassy carbon electrode and its interaction with DNA. <i>Journal of Solid State Electrochemistry</i> , <b>2012</b> , 16, 2837-2843	2.6	16
77	Amperometric biosensor based on immobilization of acetylcholinesterase via specific binding on biocompatible boronic acid-functionalized Fe@Au magnetic nanoparticles. <i>Journal of Solid State Electrochemistry</i> , <b>2012</b> , 16, 3783-3790	2.6	15
76	Electrochemical behavior of phenacetin on CdSe microspheres modified glassy carbon electrode and its simultaneous determination with paracetamol and 4-aminophenol. <i>Analytical Methods</i> , <b>2012</b> , 4, 1445	3.2	15
75	Colorimetric detection of peroxyxynitrite-induced DNA damage using gold nanoparticles, and on the scavenging effects of antioxidants. <i>Mikrochimica Acta</i> , <b>2013</b> , 180, 573-580	5.8	14
74	Amperometric biosensor based on hemoglobin immobilized on Cu <sub>2</sub> S nanorods/nafion nanocomposite film for the determination of polyphenols. <i>Journal of Solid State Electrochemistry</i> , <b>2012</b> , 16, 2547-2554	2.6	14
73	Determination of hydrogen peroxide based on calcined layered double hydroxide-modified glassy carbon electrode in flavored beverages. <i>Journal of Solid State Electrochemistry</i> , <b>2012</b> , 16, 1545-1550	2.6	14
72	Electrochemical detection of DNA damage induced by in situ generated bisphenol A radicals through electro-oxidation. <i>Mikrochimica Acta</i> , <b>2010</b> , 171, 363-369	5.8	14
71	Electrochemical Determination of 2-Nitrophenol in Water Samples Using Mg-Al-SDS Hydrotalcite-Like Clay Modified Glassy Carbon Electrode. <i>Electroanalysis</i> , <b>2010</b> , 22, 1136-1142	3	14
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68	A novel pH-responsive electrochemiluminescence immunosensor for ALV-J detection based on hollow MnO encapsulating Ru(bpy) <sub>3</sub> Cl <sub>2</sub> . <i>Biosensors and Bioelectronics</i> , <b>2018</b> , 118, 167-173	11.8	13
67	Fluorometric determination of mercury(II) based on dual-emission metal-organic frameworks incorporating carbon dots and gold nanoclusters. <i>Mikrochimica Acta</i> , <b>2020</b> , 187, 534	5.8	13
66	A label-free electrochemical biosensor for microRNA detection based on apoferritin-encapsulated Cu nanoparticles. <i>Journal of Solid State Electrochemistry</i> , <b>2014</b> , 18, 2829-2835	2.6	12
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63	Electrochemical oxidation behavior of guanosine-5'-monophosphate on a glassy carbon electrode modified with a composite film of graphene and multi-walled carbon nanotubes, and its amperometric determination. <i>Mikrochimica Acta</i> , <b>2011</b> , 172, 343-349	5.8	12
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61	A simple and sensitive sensor for lactose based on cascade reactions in Au nanoclusters and enzymes co-encapsulated metal-organic frameworks. <i>Food Chemistry</i> , <b>2021</b> , 339, 127863	8.5	12
60	Biodegradable poly(vinyl alcohol)-based nanocomposite film reinforced with organophilic layered double hydroxides with potential packaging application. <i>Iranian Polymer Journal (English Edition)</i> , <b>2017</b> , 26, 811-819	2.3	11
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58	An electrochemical immunosensor based on an etched zeolitic imidazolate framework for detection of avian leukosis virus subgroup J. <i>Mikrochimica Acta</i> , <b>2018</b> , 185, 423	5.8	11
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40	A novel photoelectrochemical immunosensor for N1-methyladenine detection based on BiVO <sub>4</sub> /g-C <sub>3</sub> N <sub>4</sub> heterojunction with signal amplification of TiO <sub>2</sub> @NH <sub>2</sub> -MIL-125(Ti). <i>Sensors and Actuators B: Chemical</i> , <b>2020</b> , 318, 128310	8.5	8
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15	Effect of slightly cadmium-enriched kenaf straw on the mechanical and thermal properties of cement mortar. <i>European Journal of Environmental and Civil Engineering</i> , <b>2020</b> , 1-19	1.5	2
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7	A Facile Colorimetric Sensor for 6-Mercaptopurine Based on Silver Nanoparticles. <i>Analytical Sciences</i> , <b>2020</b> , 36, 515-517	1.7	1
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