

# Shiyun Ai

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Iron nanoparticles supported on N-doped carbon foam with honeycomb microstructure: An efficient potassium peroxydisulfate activator for the degradation of fluoranthene in water and soil. <i>Chemosphere</i> , <b>2022</b> , 286, 131603	8.4	3
188	Efficient removal of Cu-EDTA complexes from wastewater by combined electrooxidation and electrocoagulation process: Performance and mechanism study. <i>Chemosphere</i> , <b>2022</b> , 287, 131971	8.4	2
187	Mixed matrix of MOF@COF hybrids for enrichment and determination of phenoxy carboxylic acids in water and vegetables. <i>Food Chemistry</i> , <b>2022</b> , 371, 131090	8.5	3
186	Core-shell structural nitrogen-doped carbon foam loaded with nano zero-valent iron for simultaneous remediation of Cd (II) and NAP in water and soil: Kinetics, mechanism, and environmental evaluation.. <i>Science of the Total Environment</i> , <b>2022</b> , 155091	10.2	2
185	Colorimetric and ratiometric fluorescent dual-mode sensitive detection of Hg based on UiO-66-NH@Au composite.. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2022</b> , 275, 121187	4.4	
184	Effect of silane modified nano-SiO <sub>2</sub> on the mechanical properties and compatibility of PBAT /lignin composite films. <i>Journal of Applied Polymer Science</i> , <b>2022</b> , 139, 52051	2.9	2
183	Investigation the effect of antibiotics on the content of N <sup>6</sup> -methyladenosine in rice seedling tissue and heavy metal on FTO activity based on antibody-free photoelectrochemical biosensor. <i>Sensors and Actuators B: Chemical</i> , <b>2022</b> , 364, 131896	8.5	1
182	Investigation of the inhibited biotoxicity of heavy metals towards 5- formylcytosine in rice by hydrochar based on photoelectrochemical biosensor. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 414, 125293	12.8	11
181	Multifunctional NiCoTi Catalyst Derived from Layered Double Hydroxides for Selective Hydrogenation of 5-Hydroxymethylfurfural to 2,5-Dimethylfuran. <i>Catalysis Letters</i> , <b>2021</b> , 151, 517-525	2.8	5
180	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
179	Ultrasensitive Electrochemiluminescence Immunosensor Based on a Three-Dimensional Flower-Like Manganese Dioxide/Polyethyleneimine/Palladium Nanocomposite as the Signal Label for Detection of Avian Leukosis Virus Subgroup J. <i>Analytical Letters</i> , <b>2021</b> , 54, 1769-1782	2.2	1
178	Efficient removal of cadmium ions from water by adsorption on a magnetic carbon aerogel. <i>Environmental Science and Pollution Research</i> , <b>2021</b> , 28, 5149-5157	5.1	5
177	Electrochemiluminescence biosensor for microRNA determination based on AgNCs@MoS <sub>2</sub> composite with (AuNPs-Semicarbazide)@Cu-MOF as coreaction accelerator. <i>Mikrochimica Acta</i> , <b>2021</b> , 188, 68	5.8	3
176	Enhanced removal of Cd (II) from aqueous solution by EDTA functionalized three-dimensional magnetic nitrogen-doped porous carbon. <i>Environmental Science and Pollution Research</i> , <b>2021</b> , 28, 32035-32045	5.1	3
175	Photoelectrochemical biosensor for 5-formylcytosine deoxyribonucleoside detection based on Bi <sub>2</sub> O <sub>3</sub> -WS <sub>2</sub> /CuO ternary heterojunction. <i>Sensors and Actuators B: Chemical</i> , <b>2021</b> , 341, 130019	8.5	4
174	WS <sub>2</sub> /Bi/BiOBr Nanostructures for Photoelectrochemical Sensing of 5-Formyluracil-2'-deoxyuridine-5'-triphosphate through Hemin/G-Quadruplex Double Signal Amplification. <i>ACS Applied Nano Materials</i> , <b>2021</b> , 4, 8998-9007	5.6	2
173	Regenerable magnetic aminated lignin/FeO/La(OH) <sub>3</sub> adsorbents for the effective removal of phosphate and glyphosate. <i>Science of the Total Environment</i> , <b>2021</b> , 788, 147812	10.2	9

172	Enhanced photoactivity of ZnPc@WS heterojunction by CuBiO and its application for photoelectrochemical detection of 5-formyl-2Pdeoxycytidine. <i>Talanta</i> , <b>2021</b> , 234, 122697	6.2	1
171	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
170	Photoelectrochemical biosensor for DNA hydroxymethylation detection based on the enhanced photoactivity of in-situ synthesized BiNbOCl@BiS heterojunction. <i>Biosensors and Bioelectronics</i> , <b>2021</b> , 194, 113580	11.8	6
169	Efficient removal of Pb <sup>2+</sup> and Cd <sup>2+</sup> using a Cu(I)Br coordination polymer constructed with an amino-rich ligand. <i>CrystEngComm</i> , <b>2021</b> , 23, 1489-1496	3.3	1
168	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
167	Photoelectrochemical assay for histone acetyltransferase based on polydopamine sensitized layered WS <sub>2</sub> . <i>Sensors and Actuators B: Chemical</i> , <b>2020</b> , 319, 128261	8.5	6
166	Iron nanoparticles encapsulated within nitrogen and sulfur co-doped magnetic porous carbon as an efficient peroxymonosulfate activator to degrade 1-naphthol. <i>Science of the Total Environment</i> , <b>2020</b> , 739, 139896	10.2	9
165	Homogeneous detection of 5-hydroxymethylcytosine based on electrochemiluminescence quenching of g-CN/MoS nanosheets by ferrocenedicarboxylic acid polymer. <i>Talanta</i> , <b>2020</b> , 219, 121211	6.2	3
164	Photoelectrochemical Biosensor for DNA Formylation Detection in Genomic DNA of Maize Seedlings Based on Black TiO <sub>2</sub> -Enhanced Photoactivity of MoS <sub>2</sub> /WS Heterojunction. <i>ACS Sensors</i> , <b>2020</b> , 5, 1092-1101	9.2	29
163	Polydopamine-sensitized WS <sub>2</sub> /black-TiO <sub>2</sub> 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
162	Photoelectrochemical assay for DNA hydroxymethylation determination based on the inhibited photoactivity of black TiO nanosphere by ZnO. <i>Mikrochimica Acta</i> , <b>2020</b> , 187, 156	5.8	1
161	A Facile Colorimetric Sensor for 6-Mercaptopurine Based on Silver Nanoparticles. <i>Analytical Sciences</i> , <b>2020</b> , 36, 515-517	1.7	1
160	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
159	Highly selective hydrogenation of 5-hydroxymethylfurfural to 2,5-dimethylfuran at low temperature over a Co <sup>II</sup> /NiAl-MMO catalyst. <i>Catalysis Science and Technology</i> , <b>2020</b> , 10, 4010-4018	5.5	5
158	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
157	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
156	A CO <sub>2</sub> -induced ROCO <sub>2</sub> Na/ROCO <sub>2</sub> H buffer solution promoted the carboxylative cyclization of propargyl alcohol to synthesize cyclic carbonates. <i>Catalysis Science and Technology</i> , <b>2020</b> , 10, 736-741	5.5	3
155	One step preparation of CN-WS nanocomposite with enhanced photoactivity and its application for photoelectrochemical detection of 5-formylcytosine in the genomic DNA of maize seedling. <i>Biosensors and Bioelectronics</i> , <b>2020</b> , 151, 111973	11.8	14

154	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
153	Floating and stable g-C3N4/PMMA/CFs porous film: an automatic photocatalytic reaction platform for dye water treatment under solar light. <i>Journal of Porous Materials</i> , <b>2020</b> , 27, 465-472	2.4	10
152	Electrochemiluminescence biosensor for DNA hydroxymethylation detection based on enzyme-catalytic covalent bonding reaction of -CHOH and thiol functionalized FeO magnetic beads. <i>Biosensors and Bioelectronics</i> , <b>2020</b> , 150, 111908	11.8	12
151	In-situ synthesis of covalent organic polymer thin film integrates with palladium nanoparticles for the construction of a cathodic photoelectrochemical cytosensor. <i>Biosensors and Bioelectronics</i> , <b>2020</b> , 168, 112545	11.8	14
150	Photoelectrochemical immunosensor for methylated RNA detection based on WS and poly(U) polymerase-triggered signal amplification. <i>Mikrochimica Acta</i> , <b>2020</b> , 187, 596	5.8	3
149	Glucose oxidase and Au nanocluster co-encapsulated metal-organic frameworks as a sensitive colorimetric sensor for glucose based on a cascade reaction. <i>New Journal of Chemistry</i> , <b>2020</b> , 44, 13344-13349	3.6	5
148	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
147	A Cu(I)-coordination polymer fluorescent chemosensor with amino-rich sites for nitro aromatic compound (NAC) detection in water. <i>CrystEngComm</i> , <b>2020</b> , 22, 5690-5697	3.3	7
146	Recent advances on signal amplification strategies in photoelectrochemical sensing of microRNAs. <i>Biosensors and Bioelectronics</i> , <b>2020</b> , 166, 112476	11.8	45
145	Electrochemical, electrochemiluminescent and photoelectrochemical bioanalysis of epigenetic modifiers: A comprehensive review. <i>Coordination Chemistry Reviews</i> , <b>2020</b> , 424, 213519	23.2	36
144	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
143	Photoelectrochemical biosensor for protein kinase A detection based on carbon microspheres, peptide functionalized Au-ZIF-8 and TiO <sub>2</sub> /g-CN. <i>Talanta</i> , <b>2019</b> , 196, 197-203	6.2	25
142	Photoelectrochemical determination of the activity of histone acetyltransferase and inhibitor screening by using MoS <sub>2</sub> nanosheets. <i>Mikrochimica Acta</i> , <b>2019</b> , 186, 663	5.8	10
141	Yolk-shell Fe <sub>3</sub> O <sub>4</sub> nanoparticles loaded on persimmon-derived porous carbon for supercapacitor assembly and As (V) removal. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 810, 151887	5.7	3
140	Green synthesis of bismuth sulfide nanostructures with tunable morphologies and robust photoelectrochemical performance. <i>CrystEngComm</i> , <b>2019</b> , 21, 1474-1481	3.3	4
139	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
138	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
137	Electrochemical aptasensing strategy for kanamycin detection based on target-triggered single-strand DNA adsorption on MoS <sub>2</sub> nanosheets and enzymatic signal amplification. <i>Sensors and Actuators B: Chemical</i> , <b>2019</b> , 296, 126664	8.5	31

136	Red luminescent metal-organic framework phosphor enhanced by CaSrS:Cu,Eu for agricultural film. <i>Applied Physics A: Materials Science and Processing</i> , <b>2019</b> , 125, 1	2.6	9
135	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
134	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
133	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
132	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
131	Photoelectrochemical biosensor for 5hmC detection based on the photocurrent inhibition effect of ZnO on MoS <sub>2</sub> /CN heterojunction. <i>Biosensors and Bioelectronics</i> , <b>2019</b> , 142, 111516	11.8	38
130	A simple aptamer-based fluorescent aflatoxin B1 sensor using humic acid as quencher. <i>Talanta</i> , <b>2019</b> , 205, 120131	6.2	20
129	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
128	Amplified electrochemical immunoassay for 5-methylcytosine using a nanocomposite prepared from graphene oxide, magnetite nanoparticles and Cyclodextrin. <i>Mikrochimica Acta</i> , <b>2019</b> , 186, 488	5.8	9
127	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
126	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
125	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
124	Photoelectrochemical biosensor for microRNA detection based on a MoS <sub>2</sub> /g-CN/black TiO heterojunction with Histostar@AuNPs for signal amplification. <i>Biosensors and Bioelectronics</i> , <b>2019</b> , 128, 137-143	11.8	85
123	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
122	Photoelectrochemical biosensor for hydroxymethylated DNA detection and T4-glucosyltransferase activity assay based on WS nanosheets and carbon dots. <i>Biosensors and Bioelectronics</i> , <b>2019</b> , 127, 38-44	11.8	37
121	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
120	Dual-signal amplified photoelectrochemical biosensor for detection of N-methyladenosine based on BiVO <sub>4</sub> -TiO heterojunction, Ag-mediated cytosine pairs. <i>Biosensors and Bioelectronics</i> , <b>2018</b> , 108, 89-96	11.8	37
119	Photoelectrochemical biosensor for microRNA detection based on multiple amplification strategies. <i>Mikrochimica Acta</i> , <b>2018</b> , 185, 257	5.8	11

118	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
117	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
116	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
115	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
114	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
113	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
112	A novel pH-responsive electrochemiluminescence immunosensor for ALV-J detection based on hollow MnO encapsulating Ru(bpy)Cl. <i>Biosensors and Bioelectronics</i> , <b>2018</b> , 118, 167-173	11.8	13
111	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
110	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
109	Ultrasensitive electrochemiluminescence immunosensor for 5-hydroxymethylcytosine detection based on FeO@SiO nanoparticles and PAMAM dendrimers. <i>Biosensors and Bioelectronics</i> , <b>2018</b> , 99, 660-666	11.8	60
108	Photoelectrochemical determination of the activity of protein kinase A by using g-CN and CdS quantum dots. <i>Mikrochimica Acta</i> , <b>2018</b> , 185, 541	5.8	5
107	Sulfur doped carbon nitride quantum dots with efficient fluorescent property and their application for bioimaging. <i>Journal of Nanoparticle Research</i> , <b>2018</b> , 20, 1	2.3	9
106	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
105	Tungsten disulfide (WS) nanosheet-based photoelectrochemical aptasensing of chloramphenicol. <i>Mikrochimica Acta</i> , <b>2018</b> , 185, 453	5.8	23
104	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
103	Enhanced Photoelectrochemical Method for Sensitive Detection of Protein Kinase A Activity Using TiO/g-CN, PAMAM Dendrimer, and Alkaline Phosphatase. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 2369-2376	7.8	129
102	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
101	One-step seeded growth of monodisperse, quasi-spherical, Tris-stabilized gold nanocrystals with sizes from 17 to 325 nm. <i>CrystEngComm</i> , <b>2017</b> , 19, 318-324	3.3	8



100	Amperometric determination of the activity of protein kinase a using a glassy carbon electrode modified with IgG functionalized gold nanoparticles conjugated to horseradish peroxidase. <i>Mikrochimica Acta</i> , <b>2017</b> , 184, 3301-3308	5.8	9
99	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
98	Electrochemical immunosensor based on hairpin DNA probe for specific detection of N6-methyladenosine RNA. <i>Journal of Electroanalytical Chemistry</i> , <b>2017</b> , 804, 192-198	4.1	9
97	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
96	Ultrasensitive microRNA-21 detection based on DNA hybridization chain reaction and SYBR Green dye. <i>Analytical Biochemistry</i> , <b>2017</b> , 538, 20-25	3.1	10
95	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
94	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
93	Photoelectrochemical immunosensor for microRNA detection based on gold nanoparticles-functionalized g-C3N4 and anti-DNA:RNA antibody. <i>Sensors and Actuators B: Chemical</i> , <b>2016</b> , 222, 1119-1126	8.5	55
92	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
91	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
90	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
89	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
88	Electrochemical biosensor for microRNA detection based on hybridization protection against nuclease S1 digestion. <i>Journal of Solid State Electrochemistry</i> , <b>2016</b> , 20, 413-419	2.6	6
87	Rapid detection of Dam methyltransferase activity based on the exonuclease III-assisted isothermal amplification cycle. <i>Analytical Methods</i> , <b>2016</b> , 8, 2771-2777	3.2	5
86	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
85	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
84	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
83	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

82	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
81	A colorimetric assay of DNA methyltransferase activity based on the keypad lock of duplex DNA modified meso-SiO <sub>2</sub> @Fe <sub>3</sub> O <sub>4</sub> . <i>Analytica Chimica Acta</i> , <b>2016</b> , 920, 80-5	6.6	9
80	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
79	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
78	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
77	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
76	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
75	Electrochemical immunosensor for N <sup>6</sup> -methyladenosine RNA modification detection. <i>Sensors and Actuators B: Chemical</i> , <b>2015</b> , 221, 1-6	8.5	26
74	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
73	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
72	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
71	Methyltransferase activity assay based on the use of exonuclease III, the hemin/G-quadruplex system and reduced graphene oxide on a gold electrode, and a study on enzyme inhibition. <i>Mikrochimica Acta</i> , <b>2015</b> , 182, 2607-2613	5.8	9
70	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
69	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
68	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
67	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
66	A novel signal-on strategy for M.Sssl methyltransferase activity analysis and inhibitor screening based on photoelectrochemical immunosensor. <i>Biosensors and Bioelectronics</i> , <b>2015</b> , 66, 109-14	11.8	49
65	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



64	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
63	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
62	Recovery and characterization of lignin from alkaline straw pulping black liquor: As feedstock for bio-oil research. <i>Journal of Applied Polymer Science</i> , <b>2015</b> , 132, n/a-n/a	2.9	12
61	An electrochemical biosensor for the activity assay of polynucleotide kinase and inhibitor screening. <i>Analytical Methods</i> , <b>2015</b> , 7, 9984-9991	3.2	6
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59	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
58	A novel pH-controlled immunosensor using hollow mesoporous silica and apoferritin combined system for target virus assay. <i>Biosensors and Bioelectronics</i> , <b>2014</b> , 54, 85-90	11.8	9
57	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
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55	Functional hybrids of layered double hydroxides with hemin: synergistic effect for peroxyxynitrite-scavenging activity. <i>RSC Advances</i> , <b>2014</b> , 4, 44614-44620	3.7	3
54	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
53	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
52	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
51	Fluorescent vancomycin and terephthalate comodified europium-doped layered double hydroxides nanoparticles: synthesis and application for bacteria labelling. <i>Journal of Nanoparticle Research</i> , <b>2014</b> , 16, 1	2.3	2
50	DNA-based hybridization chain reaction amplification for assaying the effect of environmental phenolic hormone on DNA methyltransferase activity. <i>Analytica Chimica Acta</i> , <b>2014</b> , 829, 9-14	6.6	12
49	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
48	Effective signal-on photoelectrochemical immunoassay of subgroup J avian leukosis virus based on Bi <sub>2</sub> S <sub>3</sub> 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
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46	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
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37	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
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