

Yunlei Zhou

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.

90 papers	2,469 citations	30 h-index	45 g-index
91 ext. papers	2,918 ext. citations	8.3 avg, IF	5.53 L-index

#	Paper	IF	Citations
90	Photoelectrochemical biosensor for DNA formylation based on WS ₂ nanosheets@polydopamine and MoS ₂ nanosheets. <i>Biosensors and Bioelectronics: X</i> , 2022 , 10, 100104	2.9	
89	Enhanced photoactivity of CdS nanorods by MXene and ZnSnO ₃ : Application in photoelectrochemical biosensor for the effect of environmental pollutants on DNA hydroxymethylation in wheat tissues. <i>Materials Today Chemistry</i> , 2022 , 24, 100878	6.2	1
88	Dietary Energy and Protein Levels During the Pelay Period on Production Performance, Egg Quality, Expression of Genes in Hypothalamus-Pituitary-Ovary Axis, and Bone Parameters in Aged Laying Hens.. <i>Frontiers in Physiology</i> , 2022 , 13, 887381	4.6	1
87	Investigation of the Effect of Antibiotics on 5-formylcytosine Content in Mazie Seedling Tissues Based on Photoelectrochemical Biosensor. <i>Journal of Hazardous Materials</i> , 2022 , 129146	12.8	1
86	Enterocyte synthesizes and secretes uric acid as antioxidant to protect against oxidative stress via the involvement of Nrf pathway.. <i>Free Radical Biology and Medicine</i> , 2021 , 179, 95-108	7.8	0
85	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> , 2021 , 414, 125293	12.8	11
84	Recent advances in biosensor for histone acetyltransferase detection. <i>Biosensors and Bioelectronics</i> , 2021 , 175, 112880	11.8	9
83	Electrochemiluminescence biosensor for microRNA determination based on AgNCs@MoS ₂ composite with (AuNPs-Semicarbazide)@Cu-MOF as coreaction accelerator. <i>Mikrochimica Acta</i> , 2021 , 188, 68	5.8	3
82	Photoelectrochemical biosensor for 5-formylcytosine deoxyribonucleoside detection based on BiO ₄ -WS ₂ /CuO ternary heterojunction. <i>Sensors and Actuators B: Chemical</i> , 2021 , 341, 130019	8.5	4
81	WS ₂ /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> , 2021 , 4, 8998-9007	5.6	2
80	Photoelectrochemical biosensor for N6-methyladenosine detection based on enhanced photoactivity of TiO ₂ -X and MoS ₂ nanocomposite. <i>Journal of Electroanalytical Chemistry</i> , 2021 , 895, 115444	4.4	2
79	Enhanced photoactivity of perovskite Bi ₄ NbO ₈ Cl/PTC-NH ₂ heterojunction and its application for photoelectrochemical sensing of DNA hydroxymethylation. <i>Sensors and Actuators B: Chemical</i> , 2021 , 344, 130211	8.5	3
78	Enhanced photoactivity of ZnPc@WS heterojunction by CuBiO and its application for photoelectrochemical detection of 5-formyl-2Rdeoxycytidine. <i>Talanta</i> , 2021 , 234, 122697	6.2	1
77	Applications of two-dimensional layered nanomaterials in photoelectrochemical sensors: A comprehensive review. <i>Coordination Chemistry Reviews</i> , 2021 , 447, 214156	23.2	19
76	Photoelectrochemical biosensor for DNA hydroxymethylation detection based on the enhanced photoactivity of in-situ synthesized BiNbOCl@BiS heterojunction. <i>Biosensors and Bioelectronics</i> , 2021 , 194, 113580	11.8	6
75	Mild heat stress changes the microbiota diversity in the respiratory tract and the cecum of layer-type pullets. <i>Poultry Science</i> , 2020 , 99, 7015-7026	3.9	7
74	Photoelectrochemical assay for histone acetyltransferase based on polydopamine sensitized layered WS ₂ . <i>Sensors and Actuators B: Chemical</i> , 2020 , 319, 128261	8.5	6

73	Homogeneous detection of 5-hydroxymethylcytosine based on electrochemiluminescence quenching of g-CN/MoS nanosheets by ferrocenedicarboxylic acid polymer. <i>Talanta</i> , 2020 , 219, 121211	6.2	3
72	Photoelectrochemical Biosensor for DNA Formylation Detection in Genomic DNA of Maize Seedlings Based on Black TiO ₂ -Enhanced Photoactivity of MoS ₂ /WS Heterojunction. <i>ACS Sensors</i> , 2020 , 5, 1092-1101	9.2	29
71	A novel photoelectrochemical immunosensor for N1-methyladenine detection based on BiVO ₄ /g-C ₃ N ₄ heterojunction with signal amplification of TiO ₂ @NH ₂ -MIL-125(Ti). <i>Sensors and Actuators B: Chemical</i> , 2020 , 318, 128310	8.5	8
70	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> , 2020 , 151, 111973	11.8	14
69	Photoelectrochemical biosensor for histone acetyltransferase detection based on ZnO quantum dots inhibited photoactivity of BiOI nanoflower. <i>Sensors and Actuators B: Chemical</i> , 2020 , 307, 127633	8.5	23
68	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> , 2020 , 150, 111908	11.8	12
67	Electrochemiluminescence immunosensor for 5-hydroxymethylcytosine detection based on PAMAM-nanosilver-nitrogen doped graphene nanocomposite. <i>Journal of Electroanalytical Chemistry</i> , 2020 , 877, 114646	4.1	3
66	Photoelectrochemical immunosensor for methylated RNA detection based on WS and poly(U) polymerase-triggered signal amplification. <i>Mikrochimica Acta</i> , 2020 , 187, 596	5.8	3
65	Recent advances on signal amplification strategies in photoelectrochemical sensing of microRNAs. <i>Biosensors and Bioelectronics</i> , 2020 , 166, 112476	11.8	45
64	Electrochemical, electrochemiluminescent and photoelectrochemical bioanalysis of epigenetic modifiers: A comprehensive review. <i>Coordination Chemistry Reviews</i> , 2020 , 424, 213519	23.2	36
63	Photoelectrochemical biosensor for protein kinase A detection based on carbon microspheres, peptide functionalized Au-ZIF-8 and TiO ₂ /g-CN. <i>Talanta</i> , 2019 , 196, 197-203	6.2	25
62	Electrochemical aptasensor for sulfadimethoxine detection based on the triggered cleavage activity of nuclease P1 by aptamer-target complex. <i>Talanta</i> , 2019 , 204, 409-414	6.2	17
61	Electrochemical aptasensing strategy for kanamycin detection based on target-triggered single-strand DNA adsorption on MoS ₂ nanosheets and enzymatic signal amplification. <i>Sensors and Actuators B: Chemical</i> , 2019 , 296, 126664	8.5	31
60	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> , 2019 , 365, 351-357	14.7	33
59	Amplified electrochemical immunoassay for 5-methylcytosine using a nanocomposite prepared from graphene oxide, magnetite nanoparticles and β -cyclodextrin. <i>Mikrochimica Acta</i> , 2019 , 186, 488	5.8	9
58	Photoelectrochemical detection of 5-hydroxymethylcytosine in genomic DNA based on M. HhaI methyltransferase catalytic covalent bonding. <i>Chemical Engineering Journal</i> , 2019 , 357, 94-102	14.7	25
57	Photoelectrochemical biosensor for microRNA detection based on a MoS ₂ /g-CN/black TiO ₂ heterojunction with Histostar@AuNPs for signal amplification. <i>Biosensors and Bioelectronics</i> , 2019 , 128, 137-143	11.8	85
56	Photoelectrochemical biosensor for hydroxymethylated DNA detection and T4-glucosyltransferase activity assay based on WS nanosheets and carbon dots. <i>Biosensors and Bioelectronics</i> , 2019 , 127, 38-44	11.8	37

55	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> , 2018 , 108, 89-96	11.8	37
54	Photoelectrochemical biosensor for microRNA detection based on multiple amplification strategies. <i>Mikrochimica Acta</i> , 2018 , 185, 257	5.8	11
53	Signal-on electrochemiluminescence biosensor for microRNA-319a detection based on two-stage isothermal strand-displacement polymerase reaction. <i>Biosensors and Bioelectronics</i> , 2018 , 107, 34-39	11.8	30
52	Aptamer-based photoelectrochemical biosensor for antibiotic detection using ferrocene modified DNA as both aptamer and electron donor. <i>Sensors and Actuators B: Chemical</i> , 2018 , 266, 514-521	8.5	48
51	Photoelectrochemical detection of miRNA-319a in rice leaf responding to phytohormones treatment based on CuO-CuWO ₄ and rolling circle amplification. <i>Sensors and Actuators B: Chemical</i> , 2018 , 255, 1744-1752	8.5	17
50	A novel electrochemiluminescence biosensor for the detection of 5-methylcytosine, TET 1 protein and β -glucosyltransferase activities based on gold nanoclusters-H ₂ O ₂ system. <i>Sensors and Actuators B: Chemical</i> , 2018 , 274, 144-151	8.5	34
49	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> , 2018 , 257, 237-244	8.5	41
48	Photoelectrochemical determination of the activity of protein kinase A by using g-CN and CdS quantum dots. <i>Mikrochimica Acta</i> , 2018 , 185, 541	5.8	5
47	Electrochemical aptasensors for zeatin detection based on MoS nanosheets and enzymatic signal amplification. <i>Analyst, The</i> , 2018 , 143, 5185-5190	5	11
46	Tungsten disulfide (WS) nanosheet-based photoelectrochemical aptasensing of chloramphenicol. <i>Mikrochimica Acta</i> , 2018 , 185, 453	5.8	23
45	Enhanced Photoelectrochemical Method for Sensitive Detection of Protein Kinase A Activity Using TiO ₂ /g-CN, PAMAM Dendrimer, and Alkaline Phosphatase. <i>Analytical Chemistry</i> , 2017 , 89, 2369-2376	7.8	129
44	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> , 2017 , 184, 3301-3308	5.8	9
43	Electrochemical biosensor for hydroxymethylated DNA detection and β -glucosyltransferase activity assay based on enzymatic catalysis triggering signal amplification. <i>Sensors and Actuators B: Chemical</i> , 2017 , 243, 602-608	8.5	21
42	Aptamer based voltammetric determination of ampicillin using a single-stranded DNA binding protein and DNA functionalized gold nanoparticles. <i>Mikrochimica Acta</i> , 2017 , 185, 68	5.8	25
41	Ultrasensitive microRNA-21 detection based on DNA hybridization chain reaction and SYBR Green dye. <i>Analytical Biochemistry</i> , 2017 , 538, 20-25	3.1	10
40	Fluorometric determination of microRNA based on strand displacement amplification and rolling circle amplification. <i>Mikrochimica Acta</i> , 2017 , 184, 4359-4365	5.8	30
39	Electrochemical immunosensor for N ⁶ -methyladenosine detection in human cell lines based on biotin-streptavidin system and silver-SiO ₂ signal amplification. <i>Biosensors and Bioelectronics</i> , 2017 , 90, 494-500	11.8	43
38	Photoelectrochemical immunosensor for microRNA detection based on gold nanoparticles-functionalized g-C ₃ N ₄ and anti-DNA:RNA antibody. <i>Sensors and Actuators B: Chemical</i> , 2016 , 222, 1119-1126	8.5	55

37	A novel photoelectrochemical biosensor for protein kinase activity assay based on phosphorylated graphite-like carbon nitride. <i>Analytica Chimica Acta</i> , 2016 , 934, 36-43	6.6	22
36	DNA methyltransferase detection based on digestion triggering the combination of poly adenine DNA with gold nanoparticles. <i>Biosensors and Bioelectronics</i> , 2016 , 80, 74-78	11.8	30
35	Electrochemical biosensor for microRNA detection based on hybridization protection against nuclease S1 digestion. <i>Journal of Solid State Electrochemistry</i> , 2016 , 20, 413-419	2.6	6
34	Rapid detection of Dam methyltransferase activity based on the exonuclease III-assisted isothermal amplification cycle. <i>Analytical Methods</i> , 2016 , 8, 2771-2777	3.2	5
33	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> , 2016 , 79, 307-12	11.8	45
32	Electrochemical biosensor for microRNA detection based on poly(U) polymerase mediated isothermal signal amplification. <i>Biosensors and Bioelectronics</i> , 2016 , 79, 79-85	11.8	44
31	Electrochemical biosensors for polynucleotide kinase activity assay and inhibition screening based on phosphorylation reaction triggered by exonuclease and exonuclease I cleavage. <i>Sensors and Actuators B: Chemical</i> , 2016 , 225, 151-157	8.5	20
30	A colorimetric assay of DNA methyltransferase activity based on the keypad lock of duplex DNA modified meso-SiO ₂ @Fe ₃ O ₄ . <i>Analytica Chimica Acta</i> , 2016 , 920, 80-5	6.6	9
29	Electrochemical biosensor for protein kinase A activity assay based on gold nanoparticles-carbon nanospheres, phos-tag-biotin and β -galactosidase. <i>Biosensors and Bioelectronics</i> , 2016 , 86, 508-515	11.8	38
28	Electrochemical biosensor for DNA methyltransferase detection based on DpnI digestion triggering the formation of G-quadruplex DNAzymes. <i>Sensors and Actuators B: Chemical</i> , 2015 , 220, 101-106	8.5	23
27	Electrochemical biosensor for detection of DNA hydroxymethylation based on glycosylation and alkaline phosphatase catalytic signal amplification. <i>Electrochimica Acta</i> , 2015 , 174, 647-652	6.7	26
26	Electrochemical immunosensor for N ⁶ -methyladenosine RNA modification detection. <i>Sensors and Actuators B: Chemical</i> , 2015 , 221, 1-6	8.5	26
25	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> , 2015 , 182, 2607-2613	5.8	9
24	A novel electrochemical immunosensor for the quantitative detection of 5-hydroxymethylcytosine in genomic DNA of breast cancer tissue. <i>Chemical Communications</i> , 2015 , 51, 14671-3	5.8	38
23	Electrochemical biosensor for DNA demethylase detection based on demethylation triggered endonuclease BstUI and Exonuclease III digestion. <i>Biosensors and Bioelectronics</i> , 2015 , 66, 266-70	11.8	16
22	Electrochemical detection of protein kinase activity based on carboxypeptidase Y digestion triggered signal amplification. <i>Biosensors and Bioelectronics</i> , 2015 , 66, 77-83	11.8	24
21	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> , 2015 , 63, 26-32	11.8	40
20	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> , 2015 , 64, 462-8	11.8	58

19	A Phos-tag-based photoelectrochemical biosensor for assay of protein kinase activity and inhibitors. <i>Sensors and Actuators B: Chemical</i> , 2015 , 206, 728-734	8.5	23
18	Enzyme-based electrochemical biosensor for sensitive detection of DNA demethylation and the activity of DNA demethylase. <i>Analytica Chimica Acta</i> , 2014 , 840, 28-32	6.6	18
17	A label-free electrochemical biosensor for microRNA detection based on apoferritin-encapsulated Cu nanoparticles. <i>Journal of Solid State Electrochemistry</i> , 2014 , 18, 2829-2835	2.6	12
16	DNA-based hybridization chain reaction amplification for assaying the effect of environmental phenolic hormone on DNA methyltransferase activity. <i>Analytica Chimica Acta</i> , 2014 , 829, 9-14	6.6	12
15	A new strategy for methylated DNA detection based on photoelectrochemical immunosensor using Bi ₂ S ₃ nanorods, methyl bonding domain protein and anti-his tag antibody. <i>Biosensors and Bioelectronics</i> , 2014 , 51, 103-8	11.8	82
14	One-step, ultrasensitive, and electrochemical assay of microRNAs based on T7 exonuclease assisted cyclic enzymatic amplification. <i>Analytical Chemistry</i> , 2014 , 86, 5606-10	7.8	94
13	DNA methyltransferase activity assay based on visible light-activated photoelectrochemical biosensor. <i>Biosensors and Bioelectronics</i> , 2014 , 53, 263-7	11.8	52
12	Electrochemical immunosensor for DNA methyltransferase activity assay based on methyl CpG-binding protein and dual gold nanoparticle conjugate-based signal amplification. <i>Sensors and Actuators B: Chemical</i> , 2014 , 192, 143-149	8.5	29
11	Electrochemical immunoassays for the detection the activity of DNA methyltransferase by using the rolling circle amplification technique. <i>Mikrochimica Acta</i> , 2014 , 181, 471-477	5.8	16
10	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> , 2014 , 54, 244-50	11.8	25
9	Electrochemical immunoassay platform for high sensitivity detection of indole-3-acetic acid. <i>Electrochimica Acta</i> , 2013 , 96, 66-73	6.7	17
8	Ultrasensitive electrochemical immunoassay for DNA methyltransferase activity and inhibitor screening based on methyl binding domain protein of MeCP2 and enzymatic signal amplification. <i>Biosensors and Bioelectronics</i> , 2013 , 49, 39-45	11.8	34
7	An electrochemical assay for DNA methylation, methyltransferase activity and inhibitor screening based on methyl binding domain protein. <i>Biosensors and Bioelectronics</i> , 2013 , 41, 492-7	11.8	49
6	Electrochemical determination of microRNA-21 based on graphene, LNA integrated molecular beacon, AuNPs and biotin multifunctional bio bar codes and enzymatic assay system. <i>Biosensors and Bioelectronics</i> , 2012 , 33, 247-53	11.8	165
5	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> , 2011 , 15, 167-173	2.6	50
4	Electrochemical oxidative determination of 4-nitrophenol based on a glassy carbon electrode modified with a hydroxyapatite nanopowder. <i>Mikrochimica Acta</i> , 2010 , 169, 87-92	5.8	138
3	Electrochemical behavior of bisphenol A at glassy carbon electrode modified with gold nanoparticles, silk fibroin, and PAMAM dendrimers. <i>Mikrochimica Acta</i> , 2010 , 170, 99-105	5.8	66
2	Electrochemical Determination of 2-Nitrophenol in Water Samples Using Mg-Al-SDS Hydrotalcite-Like Clay Modified Glassy Carbon Electrode. <i>Electroanalysis</i> , 2010 , 22, 1136-1142	3	14

- 1 Photoelectrochemical biosensor for 5-formylcytosine based on WS₂/Bi/Bi₂O₂CO₃ nanocomposite and rolling circle amplification. *Chinese Journal of Chemistry*, 4.9 1