

# Yunlei Zhou

## List of Publications by Year in descending order

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91  
papers

3,388  
citations

126901

33  
h-index

161844

54  
g-index

91  
all docs

91  
docs citations

91  
times ranked

3202  
citing authors

#	ARTICLE	IF	CITATIONS
1	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, 247-253.	10.1	188
2	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.	5.0	166
3	Enhanced Photoelectrochemical Method for Sensitive Detection of Protein Kinase A Activity Using TiO <sub>2</sub> /g-C <sub>3</sub> N <sub>4</sub> , PAMAM Dendrimer, and Alkaline Phosphatase. <i>Analytical Chemistry</i> , 2017, 89, 2369-2376.	6.5	153
4	Applications of two-dimensional layered nanomaterials in photoelectrochemical sensors: A comprehensive review. <i>Coordination Chemistry Reviews</i> , 2021, 447, 214156.	18.8	136
5	Photoelectrochemical biosensor for microRNA detection based on a MoS <sub>2</sub> /g-C <sub>3</sub> N <sub>4</sub> /black TiO <sub>2</sub> heterojunction with Histostar@AuNPs for signal amplification. <i>Biosensors and Bioelectronics</i> , 2019, 128, 137-143.	10.1	107
6	One-Step, Ultrasensitive, and Electrochemical Assay of microRNAs Based on T7 Exonuclease Assisted Cyclic Enzymatic Amplification. <i>Analytical Chemistry</i> , 2014, 86, 5606-5610.	6.5	103
7	Recent advances on signal amplification strategies in photoelectrochemical sensing of microRNAs. <i>Biosensors and Bioelectronics</i> , 2020, 166, 112476.	10.1	95
8	A new strategy for methylated DNA detection based on photoelectrochemical immunosensor using Bi <sub>2</sub> S <sub>3</sub> nanorods, methyl bonding domain protein and anti-his tag antibody. <i>Biosensors and Bioelectronics</i> , 2014, 51, 103-108.	10.1	94
9	Electrochemical, electrochemiluminescent and photoelectrochemical bioanalysis of epigenetic modifiers: A comprehensive review. <i>Coordination Chemistry Reviews</i> , 2020, 424, 213519.	18.8	85
10	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.	5.0	74
11	A signal amplification 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, 462-468.	10.1	70
12	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> , 2016, 222, 1119-1126.	7.8	68
13	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.	7.8	68
14	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.	2.5	62
15	DNA methyltransferase activity assay based on visible light-activated photoelectrochemical biosensor. <i>Biosensors and Bioelectronics</i> , 2014, 53, 263-267.	10.1	57
16	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.	12.7	57
17	Electrochemical immunosensor for N <sup>6</sup> -methyladenosine detection in human cell lines based on biotin-streptavidin system and silver-SiO <sub>2</sub> signal amplification. <i>Biosensors and Bioelectronics</i> , 2017, 90, 494-500.	10.1	55
18	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.	10.1	53

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19	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.	7.8	53
20	An electrochemical assay for DNA methylation, methyltransferase activity and inhibitor screening based on methyl binding domain protein. <i>Biosensors and Bioelectronics</i> , 2013, 41, 492-497.	10.1	52
21	Photoelectrochemical biosensor for hydroxymethylated DNA detection and T4- $\beta$ -glucosyltransferase activity assay based on WS <sub>2</sub> nanosheets and carbon dots. <i>Biosensors and Bioelectronics</i> , 2019, 127, 38-44.	10.1	52
22	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> , 2016, 86, 508-515.	10.1	51
23	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, 307-312.	10.1	51
24	Electrochemical biosensor for microRNA detection based on poly(U) polymerase mediated isothermal signal amplification. <i>Biosensors and Bioelectronics</i> , 2016, 79, 79-85.	10.1	51
25	A novel electrochemical immunosensor for the quantitative detection of 5-hydroxymethylcytosine in genomic DNA of breast cancer tissue. <i>Chemical Communications</i> , 2015, 51, 14671-14673.	4.1	49
26	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> , 2018, 274, 144-151.	7.8	49
27	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 <sub>2</sub> Heterojunction. <i>ACS Sensors</i> , 2020, 5, 1092-1101.	7.8	45
28	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.	10.1	44
29	Dual-signal amplified photoelectrochemical biosensor for detection of N6-methyladenosine based on BiVO <sub>4</sub> -TiO <sub>2</sub> heterojunction, Ag <sup>+</sup> -mediated cytosine pairs. <i>Biosensors and Bioelectronics</i> , 2018, 108, 89-96.	10.1	44
30	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> , 2019, 296, 126664.	7.8	43
31	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.	10.1	39
32	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.	10.1	37
33	Fluorometric determination of microRNA based on strand displacement amplification and rolling circle amplification. <i>Mikrochimica Acta</i> , 2017, 184, 4359-4365.	5.0	36
34	Electrochemical immunosensor for N6-methyladenosine RNA modification detection. <i>Sensors and Actuators B: Chemical</i> , 2015, 221, 1-6.	7.8	35
35	Photoelectrochemical biosensor for protein kinase A detection based on carbon microspheres, peptide functionalized Au-ZIF-8 and TiO <sub>2</sub> /g-C <sub>3</sub> N <sub>4</sub> . <i>Talanta</i> , 2019, 196, 197-203.	5.5	35
36	Photoelectrochemical detection of 5-hydroxymethylcytosine in genomic DNA based on M. Hhal methyltransferase catalytic covalent bonding. <i>Chemical Engineering Journal</i> , 2019, 357, 94-102.	12.7	32

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37	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.	7.8	31
38	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.	7.8	30
39	Electrochemical biosensor for detection of DNA hydroxymethylation based on glycosylation and alkaline phosphatase catalytic signal amplification. <i>Electrochimica Acta</i> , 2015, 174, 647-652.	5.2	30
40	Electrochemical detection of protein kinase activity based on carboxypeptidase Y digestion triggered signal amplification. <i>Biosensors and Bioelectronics</i> , 2015, 66, 77-83.	10.1	30
41	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.	5.5	30
42	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.	7.8	30
43	Tungsten disulfide (WS <sub>2</sub> ) nanosheet-based photoelectrochemical aptasensing of chloramphenicol. <i>Mikrochimica Acta</i> , 2018, 185, 453.	5.0	29
44	Investigation of the effect of phytohormone on the expression of microRNA-159a in <i>Arabidopsis thaliana</i> seedlings based on mimic enzyme catalysis systematic electrochemical biosensor. <i>Biosensors and Bioelectronics</i> , 2014, 54, 244-250.	10.1	28
45	Aptamer based voltammetric determination of ampicillin using a single-stranded DNA binding protein and DNA functionalized gold nanoparticles. <i>Mikrochimica Acta</i> , 2018, 185, 68.	5.0	27
46	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.	7.8	26
47	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.	5.4	26
48	Photoelectrochemical detection of miRNA-319a in rice leaf responding to phytohormones treatment based on CuO-CuWO <sub>4</sub> and rolling circle amplification. <i>Sensors and Actuators B: Chemical</i> , 2018, 255, 1744-1752.	7.8	26
49	Electrochemical biosensor for hydroxymethylated DNA detection and Î <sup>2</sup> -glucosyltransferase activity assay based on enzymatic catalysis triggering signal amplification. <i>Sensors and Actuators B: Chemical</i> , 2017, 243, 602-608.	7.8	25
50	Photoelectrochemical biosensor for DNA hydroxymethylation detection based on the enhanced photoactivity of in-situ synthesized Bi <sub>4</sub> NbO <sub>8</sub> Cl@Bi <sub>2</sub> S <sub>3</sub> heterojunction. <i>Biosensors and Bioelectronics</i> , 2021, 194, 113580.	10.1	25
51	Electrochemical biosensors for polynucleotide kinase activity assay and inhibition screening based on phosphorylation reaction triggered Î <sup>2</sup> exonuclease and exonuclease I cleavage. <i>Sensors and Actuators B: Chemical</i> , 2016, 225, 151-157.	7.8	23
52	Electrochemiluminescence biosensor for DNA hydroxymethylation detection based on enzyme-catalytic covalent bonding reaction of â€“CH <sub>2</sub> OH and thiol functionalized Fe <sub>3</sub> O <sub>4</sub> magnetic beads. <i>Biosensors and Bioelectronics</i> , 2020, 150, 111908.	10.1	23
53	Electrochemical immunoassay platform for high sensitivity detection of indole-3-acetic acid. <i>Electrochimica Acta</i> , 2013, 96, 66-73.	5.2	22
54	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.	5.4	22

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55	Electrochemical biosensor for DNA demethylase detection based on demethylation triggered endonuclease BstUI and Exonuclease III digestion. <i>Biosensors and Bioelectronics</i> , 2015, 66, 266-270.	10.1	21
56	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.	12.4	20
57	One step preparation of CN-WS2 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.	10.1	19
58	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.	3.4	19
59	Electrochemical Determination of 2-Nitrophenol in Water Samples Using Mg-SDS Hydrothermal Like Clay Modified Glassy Carbon Electrode. <i>Electroanalysis</i> , 2010, 22, 1136-1142.	2.9	18
60	Investigation of the effect of antibiotics on 5-formylcytosine content in maize seedling tissues based on photoelectrochemical biosensor. <i>Journal of Hazardous Materials</i> , 2022, 436, 129146.	12.4	18
61	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.	5.0	17
62	Recent advances in biosensor for histone acetyltransferase detection. <i>Biosensors and Bioelectronics</i> , 2021, 175, 112880.	10.1	17
63	Electrochemiluminescence biosensor for microRNA determination based on AgNCs@MoS2 composite with (AuNPs-Semicarbazide)@Cu-MOF as coreaction accelerator. <i>Mikrochimica Acta</i> , 2021, 188, 68.	5.0	15
64	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.	5.4	14
65	Ultrasensitive microRNA-21 detection based on DNA hybridization chain reaction and SYBR Green dye. <i>Analytical Biochemistry</i> , 2017, 538, 20-25.	2.4	14
66	Photoelectrochemical biosensor for microRNA detection based on multiple amplification strategies. <i>Mikrochimica Acta</i> , 2018, 185, 257.	5.0	14
67	A novel photoelectrochemical immunosensor for N1-methyladenine detection based on BiVO4/g-C3N4 heterojunction with signal amplification of TiO2@NH2-MIL-125(Ti). <i>Sensors and Actuators B: Chemical</i> , 2020, 318, 128310.	7.8	14
68	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.	2.5	13
69	A colorimetric assay of DNA methyltransferase activity based on the keypad lock of duplex DNA modified meso-SiO2@Fe3O4. <i>Analytica Chimica Acta</i> , 2016, 920, 80-85.	5.4	13
70	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> , 2022, 179, 95-108.	2.9	13
71	Amplified electrochemical immunoassay for 5-methylcytosine using a nanocomposite prepared from graphene oxide, magnetite nanoparticles and $\beta$ -cyclodextrin. <i>Mikrochimica Acta</i> , 2019, 186, 488.	5.0	12
72	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.	5.0	11

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73	Electrochemical aptasensors for zeatin detection based on MoS <sub>2</sub> nanosheets and enzymatic signal amplification. <i>Analyst</i> , 2018, 143, 5185-5190.	3.5	11
74	Photoelectrochemical biosensor for 5-formylcytosine deoxyribonucleoside detection based on Bi <sub>2</sub> O <sub>4</sub> -WS <sub>2</sub> /CuO ternary heterojunction. <i>Sensors and Actuators B: Chemical</i> , 2021, 341, 130019.	7.8	11
75	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.	5.0	10
76	Enhanced photoactivity of perovskite Bi <sub>4</sub> NbO <sub>8</sub> Cl/PTC-NH <sub>2</sub> heterojunction and its application for photoelectrochemical sensing of DNA hydroxymethylation. <i>Sensors and Actuators B: Chemical</i> , 2021, 344, 130211.	7.8	10
77	Electrochemical biosensor for microRNA detection based on hybridization protection against nuclease S1 digestion. <i>Journal of Solid State Electrochemistry</i> , 2016, 20, 413-419.	2.5	9
78	Photoelectrochemical determination of the activity of protein kinase A by using g-C <sub>3</sub> N <sub>4</sub> and CdS quantum dots. <i>Mikrochimica Acta</i> , 2018, 185, 541.	5.0	9
79	Electrochemiluminescence immunosensor for 5-hydroxymethylcytosine detection based on PAMAM-nanosilver/nitrogen doped graphene nanocomposite. <i>Journal of Electroanalytical Chemistry</i> , 2020, 877, 114646.	3.8	9
80	Photoelectrochemical immunosensor for methylated RNA detection based on WS <sub>2</sub> and poly(U) polymerase- $\epsilon$ -triggered signal amplification. <i>Mikrochimica Acta</i> , 2020, 187, 596.	5.0	9
81	Rapid detection of Dam methyltransferase activity based on the exonuclease III-assisted isothermal amplification cycle. <i>Analytical Methods</i> , 2016, 8, 2771-2777.	2.7	8
82	Photoelectrochemical assay for histone acetyltransferase based on polydopamine sensitized layered WS <sub>2</sub> . <i>Sensors and Actuators B: Chemical</i> , 2020, 319, 128261.	7.8	7
83	Homogeneous detection of 5-hydroxymethylcytosine based on electrochemiluminescence quenching of g-C <sub>3</sub> N <sub>4</sub> /MoS <sub>2</sub> nanosheets by ferrocenedicarboxylic acid polymer. <i>Talanta</i> , 2020, 219, 121211.	5.5	7
84	Enhanced photoactivity of CdS nanorods by MXene and ZnSnO <sub>3</sub> : Application in photoelectrochemical biosensor for the effect of environmental pollutants on DNA hydroxymethylation in wheat tissues. <i>Materials Today Chemistry</i> , 2022, 24, 100878.	3.5	6
85	Dietary Energy and Protein Levels During the Prelay 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.	2.8	6
86	WS <sub>2</sub> /Bi <sub>2</sub> O <sub>3</sub> Nanostructures for Photoelectrochemical Sensing of 5-Formyluracil-2 $\alpha$ -deoxyuridine-5 $\alpha$ -triphosphate through Hemin/G-Quadruplex Double Signal Amplification. <i>ACS Applied Nano Materials</i> , 2021, 4, 8998-9007.	5.0	5
87	Photoelectrochemical biosensor for N <sup>6</sup> -methyladenosine detection based on enhanced photoactivity of TiO <sub>2</sub> -X and MoS <sub>2</sub> nanocomposite. <i>Journal of Electroanalytical Chemistry</i> , 2021, 895, 115444.	3.8	5
88	Photoelectrochemical Biosensor for 5-Formylcytosine Based on WS <sub>2</sub> /Bi <sub>2</sub> O <sub>3</sub> /CO <sub>3</sub> Nanocomposite and Rolling Circle Amplification. <i>Chinese Journal of Chemistry</i> , 2022, 40, 247-255.	4.9	5
89	The regulating pathway of creatine on muscular protein metabolism depends on the energy state. <i>American Journal of Physiology - Cell Physiology</i> , 2022, 322, C1022-C1035.	4.6	4
90	Enhanced photoactivity of ZnPc@WS <sub>2</sub> heterojunction by CuBi <sub>2</sub> O <sub>4</sub> and its application for photoelectrochemical detection of 5-formyl-2 $\alpha$ -deoxycytidine. <i>Talanta</i> , 2021, 234, 122697.	5.5	2

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91	Photoelectrochemical biosensor for DNA formylation based on WS <sub>2</sub> nanosheets@polydopamine and MoS <sub>2</sub> nanosheets. <i>Biosensors and Bioelectronics</i> : X, 2022, 10, 100104.	1.7	1