## Wen-Bin Liang

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	A target-initiated autocatalytic 3D DNA nanomachine for high-efficiency amplified detection of MicroRNA. Talanta, 2022, 240, 123219.	2.9	5
2	Proximity hybridization-induced competitive rolling circle amplification to construct fluorescent dual-sensor for simultaneous evaluation of glycated and total hemoglobin. Biosensors and Bioelectronics, 2022, 202, 113998.	5.3	3
3	A Simple and Highly Sensitive Naked-Eye Analysis of EGFR 19del via CRISPR/Cas12a Triggered No-Nonspecific Nucleic Acid Amplification. ACS Synthetic Biology, 2022, 11, 867-876.	1.9	12
4	Epigenetic Quantification of 5-Hydroxymethylcytosine Signatures <i>via</i> Regulatable DNAzyme Motor Triggered by Strand Displacement Amplification. Analytical Chemistry, 2022, 94, 3313-3319.	3.2	14
5	Conductive Covalent Organic Frameworks with Conductivity- and Pre-Reduction-Enhanced Electrochemiluminescence for Ultrasensitive Biosensor Construction. Analytical Chemistry, 2022, 94, 3685-3692.	3.2	36
6	Electrochemiluminescence enhanced by isolating ACQphores in pyrene-based porous organic polymer: A novel ECL emitter for the construction of biosensing platform. Analytica Chimica Acta, 2022, 1206, 339648.	2.6	16
7	Conductive NiCo bimetal-organic framework nanorods with conductivity-enhanced electrochemiluminescence for constructing biosensing platform. Sensors and Actuators B: Chemical, 2022, 362, 131802.	4.0	17
8	Three-in-One System Based on Multi-Path Nucleic Acid Amplification for Bioanalysis of Pre-miRNA/miRNA and Dicer Activity. Analytical Chemistry, 2022, 94, 8258-8266.	3.2	5
9	Discrimination between Cancer Cells and DNA-Damaged Cells: Pre-miRNA Region Recognition Based on Hyperbranched Hybrid Chain Reaction Amplification for Simultaneous Sensitive Detection and Imaging of miRNA and Pre-miRNA. Analytical Chemistry, 2022, 94, 9911-9918.	3.2	15
10	One-Step Digital Droplet Auto-Catalytic Nucleic Acid Amplification with High-Throughput Fluorescence Imaging and Droplet Tracking Computation. Analytical Chemistry, 2022, 94, 9166-9175.	3.2	3
11	Double loop-stem hairpins mediated hybridization chain reaction: A multifunctional DNA molecular tool to produce the intact aptamer for label-free biosensing. Sensors and Actuators B: Chemical, 2022, 369, 132327.	4.0	12
12	Highly efficient electrochemiluminescence resonance energy transfer material constructed from an AlEgen-based 2D ultrathin metal–organic layer for thrombin detection. Chemical Communications, 2021, 57, 4323-4326.	2.2	17
13	Highly Stable Covalent Organic Framework Nanosheets as a New Generation of Electrochemiluminescence Emitters for Ultrasensitive MicroRNA Detection. Analytical Chemistry, 2021, 93, 3258-3265.	3.2	75
14	Ruthenium(II) Complex-Grafted Hollow Hierarchical Metal–Organic Frameworks with Superior Electrochemiluminescence Performance for Sensitive Assay of Thrombin. Analytical Chemistry, 2021, 93, 6239-6245.	3.2	53
15	The Effect of Temperature on the Properties of Hydrochars Obtained by Hydrothermal Carbonization of Waste <i>Camellia oleifera</i> Shells. ACS Omega, 2021, 6, 16546-16552.	1.6	23
16	A Multimodal Affinity Fusion Network for Predicting the Survival of Breast Cancer Patients. Frontiers in Genetics, 2021, 12, 709027.	1.1	4
17	Overcoming Aggregation-Induced Quenching by Metalâ^'Organic Framework for Electrochemiluminescence (ECL) Enhancement: Zn-PTC as a New ECL Emitter for Ultrasensitive MicroRNAs Detection. ACS Applied Materials & Interfaces, 2021, 13, 44079-44085.	4.0	53
18	No-nonspecific recognition-based amplification strategy for endonuclease activity screening with dual-color DNA nano-clew. Biosensors and Bioelectronics, 2021, 190, 113446.	5.3	3

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19	Two Birds with One Stone: Surface Functionalization and Delamination of Multilayered Ti <sub>3</sub> C <sub>2</sub> T <sub><i>x</i></sub> MXene by Grafting a Ruthenium(II) Complex to Achieve Conductivity-Enhanced Electrochemiluminescence. Analytical Chemistry, 2021, 93, 1834-1841.	3.2	39
20	Metal-organic Frameworks (MOF)-based Novel Electrochemiluminescence Biosensing Platform for Quantification of H <sub>2</sub> O <sub>2</sub> Releasing from Tumor Cells. Acta Chimica Sinica, 2021, 79, 1257.	0.5	6
21	A sensitive electrochemical strategy via multiple amplification reactions for the detection of E. coli O157: H7. Biosensors and Bioelectronics, 2020, 147, 111752.	5.3	51
22	3D Matrix-Arranged AuAg Nanoclusters As Electrochemiluminescence Emitters for Click Chemistry-Driven Signal Switch Bioanalysis. Analytical Chemistry, 2020, 92, 2566-2572.	3.2	27
23	Anodic Electrochemiluminescence of Carbon Dots Promoted by Nitrogen Doping and Application to Rapid Cancer Cell Detection. Analytical Chemistry, 2020, 92, 1379-1385.	3.2	88
24	Rapid self-disassembly of DNA diblock copolymer micelles <i>via</i> target induced hydrophilic–hydrophobic regulation for sensitive MiRNA detection. Chemical Communications, 2020, 56, 10215-10218.	2.2	8
25	A Janus 3D DNA nanomachine for simultaneous and sensitive fluorescence detection and imaging of dual microRNAs in cancer cells. Chemical Science, 2020, 11, 8482-8488.	3.7	68
26	Hydrophobic-Driven Electrochemiluminescence Enhancement via Target-Induced Self-Enrichment for Ultrasensitive Bioassay. Analytical Chemistry, 2020, 92, 15120-15128.	3.2	15
27	A near-infrared light-controlled, ultrasensitive one-step photoelectrochemical detection of dual cell apoptosis indicators in living cancer cells. Chemical Communications, 2020, 56, 8488-8491.	2.2	6
28	An orbitron-like 3D DNA clip-based nanomachine and its application for sensitive fluorescent bioassay of MicroRNA. Analytica Chimica Acta, 2020, 1126, 24-30.	2.6	1
29	Aggregationâ€Induced Synergism by Hydrophobicâ€Driven Selfâ€Assembly of Amphiphilic Oligonucleotides. Chemistry - A European Journal, 2020, 26, 8767-8773.	1.7	3
30	An AlEgen-based 2D ultrathin metal–organic layer as an electrochemiluminescence platform for ultrasensitive biosensing of carcinoembryonic antigen. Nanoscale, 2020, 12, 5932-5941.	2.8	71
31	Restriction of intramolecular motions (RIM) by metal-organic frameworks for electrochemiluminescence enhancement:2D Zr12-adb nanoplate as a novel ECL tag for the construction of biosensing platform. Biosensors and Bioelectronics, 2020, 155, 112099.	5.3	48
32	Matrix Coordination-Induced Electrochemiluminescence Enhancement of Tetraphenylethylene-Based Hafnium Metal–Organic Framework: An Electrochemiluminescence Chromophore for Ultrasensitive Electrochemiluminescence Sensor Construction. Analytical Chemistry, 2020, 92, 3380-3387.	3.2	112
33	Covalent organic frameworks as micro-reactors: confinement-enhanced electrochemiluminescence. Chemical Science, 2020, 11, 5410-5414.	3.7	55
34	A fluorometric lead(II) assay by using a DNA dendrimer as a carrier for the immobilization of the signal probe. Mikrochimica Acta, 2019, 186, 582.	2.5	10
35	A Novel Electrochemiluminescent Immunoassay Based on Target Transformation Assisted with Catalyzed Hairpin Assembly Amplification for the Ultrasensitive Bioassay. ACS Applied Materials & Interfaces, 2019, 11, 31427-31433.	4.0	16
36	Attention-Based Multi-NMF Deep Neural Network with Multimodality Data for Breast Cancer Prognosis Model. BioMed Research International, 2019, 2019, 1-11.	0.9	17

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37	Biomimetic 3D DNA Nanomachine via Free DNA Walker Movement on Lipid Bilayers Supported by Hard SiO <sub>2</sub> @CdTe Nanoparticles for Ultrasensitive MicroRNA Detection. Analytical Chemistry, 2019, 91, 14920-14926.	3.2	43
38	A Dynamic DNA Machine via Free Walker Movement on Lipid Bilayer for Ultrasensitive Electrochemiluminescent Bioassay. Analytical Chemistry, 2019, 91, 14125-14132.	3.2	34
39	[Ru(dcbpy) 2 dppz] 2+ /Fullerene Cosensitized PTB7â€Th for Ultrasensitive Photoelectrochemical MicroRNA Assay. Chemistry - A European Journal, 2019, 25, 4087-4092.	1.7	9
40	A novel photoelectrochemical strategy based on quenching effect of CdS quantum dots on PTB7 as photoelectroactive material for methylated DNA detection. Journal of Electroanalytical Chemistry, 2019, 847, 113220.	1.9	3
41	Ruthenium complex doped metal-organic nanoplate with high electrochemiluminescent intensity and stability for ultrasensitive assay of mucin 1. Sensors and Actuators B: Chemical, 2019, 292, 105-110.	4.0	28
42	A novel fluorescent assay for the ultrasensitive detection of miRNA-21 with the use of C-quadruplex structures as an immobilization material for a signal indicator. Chemical Communications, 2019, 55, 6453-6456.	2.2	29
43	A highly sensitive self-enhanced aptasensor based on a stable ultrathin 2D metal–organic layer with outstanding electrochemiluminescence property. Nanoscale, 2019, 11, 10056-10063.	2.8	36
44	CdTe QD–CeO <sub>2</sub> Complex as a Strong Photoelectrochemical Signal Indicator for the Ultrasensitive microRNA Assay. ACS Applied Materials & Interfaces, 2019, 11, 11834-11840.	4.0	44
45	Highly stable Ru-complex-grafted 2D metal-organic layer with superior electrochemiluminescent efficiency as a sensing platform for simple and ultrasensitive detection of mucin 1. Biosensors and Bioelectronics, 2019, 135, 95-101.	5.3	55
46	Electrochemiluminescence Enhanced by Restriction of Intramolecular Motions (RIM): Tetraphenylethylene Microcrystals as a Novel Emitter for Mucin 1 Detection. Analytical Chemistry, 2019, 91, 3710-3716.	3.2	75
47	A dynamic 3D DNA nanostructure based on silicon-supported lipid bilayers: a highly efficient DNA nanomachine for rapid and sensitive sensing. Chemical Communications, 2019, 55, 13414-13417.	2.2	17
48	A robust, magnetic, and self-accelerated electrochemiluminescent nanosensor for ultrasensitive detection of copper ion. Biosensors and Bioelectronics, 2018, 109, 109-115.	5.3	40
49	A Highly Sensitive Detection System based on Proximity-dependent Hybridization with Computer-aided Affinity Maturation of a scFv Antibody. Scientific Reports, 2018, 8, 3837.	1.6	8
50	A Highly Sensitive Photoelectrochemical Assay with Donor–Acceptor-Type Material as Photoactive Material and Polyaniline as Signal Enhancer. Analytical Chemistry, 2018, 90, 6096-6101.	3.2	53
51	Highly Stable Mesoporous Luminescence-Functionalized MOF with Excellent Electrochemiluminescence Property for Ultrasensitive Immunosensor Construction. ACS Applied Materials & Interfaces, 2018, 10, 15913-15919.	4.0	125
52	Ultrasensitive Photoelectrochemical Assay with PTB7-Th/CdTe Quantum Dots Sensitized Structure as Signal Tag and Benzo-4-chlorohexadienone Precipitate as Efficient Quencher. Analytical Chemistry, 2018, 90, 14521-14526.	3.2	31
53	An Efficient Feature Selection Strategy Based on Multiple Support Vector Machine Technology with Gene Expression Data. BioMed Research International, 2018, 2018, 1-11.	0.9	30
54	An ATP-fueled nucleic acid signal amplification strategy for highly sensitive microRNA detection. Chemical Communications, 2018, 54, 10897-10900.	2.2	7

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55	Ultrasensitive Fluorescent Assay Based on a Rolling-Circle-Amplification-Assisted Multisite-Strand-Displacement-Reaction Signal-Amplification Strategy. Analytical Chemistry, 2018, 90, 7474-7479.	3.2	37
56	Ultrasensitive Photoelectrochemical Biosensor Based on DNA Tetrahedron as Nanocarrier for Efficient Immobilization of CdTe QDs-Methylene Blue as Signal Probe with Near-Zero Background Noise. Analytical Chemistry, 2018, 90, 8211-8216.	3.2	104
57	Copper sulfide-functionalized molybdenum disulfide nanohybrids as nanoenzyme mimics for electrochemical immunoassay of myoglobin in cardiovascular disease. RSC Advances, 2017, 7, 2486-2493.	1.7	22
58	Ultrasensitive Assay for Telomerase Activity via Self-Enhanced Electrochemiluminescent Ruthenium Complex Doped Metal–Organic Frameworks with High Emission Efficiency. Analytical Chemistry, 2017, 89, 3222-3227.	3.2	95
59	An efficient target–intermediate recycling amplification strategy for ultrasensitive fluorescence assay of intracellular lead ions. Chemical Communications, 2017, 53, 7525-7528.	2.2	39
60	A sensitive immunosensor via in situ enzymatically generating efficient quencher for electrochemiluminescence of iridium complexes doped SiO2 nanoparticles. Biosensors and Bioelectronics, 2017, 94, 568-574.	5.3	33
61	Electrochemiluminescent Pb <sup>2+</sup> -Driven Circular Etching Sensor Coupled to a DNA Micronet-Carrier. ACS Applied Materials & Interfaces, 2017, 9, 39812-39820.	4.0	22
62	Universal Ratiometric Photoelectrochemical Bioassay with Target-Nucleotide Transduction-Amplification and Electron-Transfer Tunneling Distance Regulation Strategies for Ultrasensitive Determination of microRNA in Cells. Analytical Chemistry, 2017, 89, 9445-9451.	3.2	79
63	Using p-type PbS Quantum Dots to Quench Photocurrent of Fullerene–Au NP@MoS <sub>2</sub> Composite Structure for Ultrasensitive Photoelectrochemical Detection of ATP. ACS Applied Materials & Interfaces, 2017, 9, 42111-42120.	4.0	75
64	An efficient electrochemiluminescence amplification strategy via bis-co-reaction accelerator for sensitive detection of laminin to monitor overnutrition associated liver damage. Biosensors and Bioelectronics, 2017, 98, 317-324.	5.3	18
65	An Electrochemical Strategy using Multifunctional Nanoconjugates for Efficient Simultaneous Detection of <i>Escherichia coli </i> O157: H7 and <i>Vibrio cholerae</i> O1. Theranostics, 2017, 7, 935-944.	4.6	34
66	Multiparameter Analysis-Based Electrochemiluminescent Assay for Simultaneous Detection of Multiple Biomarker Proteins on a Single Interface. Analytical Chemistry, 2016, 88, 4940-4948.	3.2	38
67	Wavelength-resolved simultaneous photoelectrochemical bifunctional sensor on single interface: A newly in vitro approach for multiplexed DNA monitoring in cancer cells. Biosensors and Bioelectronics, 2016, 81, 423-430.	5.3	50
68	Competitive method-based electrochemiluminescent assay with protein–nucleotide conversion for ratio detection to efficiently monitor the drug resistance of cancer cells. Chemical Science, 2016, 7, 7094-7100.	3.7	27
69	Self-Enhanced Ultrasensitive Photoelectrochemical Biosensor Based on Nanocapsule Packaging Both Donor–Acceptor-Type Photoactive Material and Its Sensitizer. Analytical Chemistry, 2016, 88, 8698-8705.	3.2	61
70	An ultrasensitive "on–off–on―photoelectrochemical aptasensor based on signal amplification of a fullerene/CdTe quantum dots sensitized structure and efficient quenching by manganese porphyrin. Chemical Communications, 2016, 52, 8138-8141.	2.2	61
71	In situ electro-polymerization of nitrogen doped carbon dots and their application in an electrochemiluminescence biosensor for the detection of intracellular lead ions. Chemical Communications, 2016, 52, 5589-5592.	2.2	76
72	Nanogold-penetrated poly(amidoamine) dendrimer for enzyme-free electrochemical immunoassay of cardiac biomarker using cathodic stripping voltammetric method. Analytica Chimica Acta, 2016, 904, 51-57.	2.6	22

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73	Luminescenceâ€Functionalized Metal–Organic Frameworks Based on a Ruthenium(II) Complex: A Signal Amplification Strategy for Electrogenerated Chemiluminescence Immunosensors. Chemistry - A European Journal, 2015, 21, 9825-9832.	1.7	69
74	MicroRNA-triggered, cascaded and catalytic self-assembly of functional "DNAzyme ferris wheel― nanostructures for highly sensitive colorimetric detection of cancer cells. Nanoscale, 2015, 7, 9055-9061.	2.8	63
75	Ultrasensitive Cytosensor Based on Self-Enhanced Electrochemiluminescent Ruthenium-Silica Composite Nanoparticles for Efficient Drug Screening with Cell Apoptosis Monitoring. Analytical Chemistry, 2015, 87, 12363-12371.	3.2	62
76	A novel electrochemical DNA biosensor based on HRP-mimicking hemin/G-quadruplex wrapped GOx nanocomposites as tag for detection of Escherichia coli O157:H7. Biosensors and Bioelectronics, 2015, 63, 1-6.	5.3	64
77	Measurement of Small Molecule Binding Kinetics on a Protein Microarray by Plasmonic-Based Electrochemical Impedance Imaging. Analytical Chemistry, 2014, 86, 9860-9865.	3.2	43
78	Amperometric immunosensor for the detection of Escherichia coli O157:H7 in food specimens. Analytical Biochemistry, 2012, 421, 227-233.	1.1	74
79	A novel microfluidic immunoassay system based on electrochemical immunosensors: An application for the detection of NT-proBNP in whole blood. Biosensors and Bioelectronics, 2012, 31, 480-485.	5.3	54
80	Application of a Fab fragment of monoclonal antibody specific to N-terminal pro-brain natriuretic peptide for the detection based on regeneration-free electrochemical immunosensor. Biotechnology Letters, 2011, 33, 1539-1543.	1.1	17
81	A novel magnetic Fe3O4@gold composite nanomaterial: Synthesis and application in regeneration-free immunosensor. Materials Letters, 2010, 64, 2616-2619.	1.3	18
82	Electrocatalytic Oxidation and Determination of Dopamine Concentrations Based on Fe <sub>3</sub> O <sub>4</sub> -Polyaniline Nanoparticles/Glutamic Acid Chemically Modified Electrodes. Sensor Letters, 2010, 8, 760-766.	0.4	3
83	Disposable amperometric immunosensor based on layer-by-layer electro-depositing of the nanogold particles, prussian blue-modified indium tin oxide for determination of α-fetoprotein. Journal of Chemical Sciences, 2009, 121, 1069-1076.	0.7	9
84	A novel, label-free immunosensor for the detection of $\hat{I}\pm$ -fetoprotein using functionalised gold nanoparticles. Clinical Biochemistry, 2009, 42, 1524-1530.	0.8	47
85	A novel label-free voltammetric immunosensor for the detection of α-fetoprotein using functional titanium dioxide nanoparticles. Electrochimica Acta, 2008, 53, 2302-2308.	2.6	28
86	Synthesis and application of a new copper(II) complex containing oflx and leof. Russian Journal of Inorganic Chemistry, 2008, 53, 704-706.	0.3	23