

Jian Wu

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.

111
papers

3,545
citations

33
h-index

56
g-index

116
ext. papers

4,344
ext. citations

6.5
avg, IF

5.68
L-index

#	Paper	IF	Citations
111	Applying CRISPR/Cas system as a signal enhancer for DNAzyme-based lead ion detection.. <i>Analytica Chimica Acta</i> , 2022 , 1192, 339356	6.6	0
110	Advances in amplification-free detection of nucleic acid: CRISPR/Cas system as a powerful tool.. <i>Analytical Biochemistry</i> , 2022 , 114593	3.1	1
109	Dipstick-based rapid nucleic acids purification and CRISPR/Cas12a-mediated isothermal amplification for visual detection of African swine fever virus.. <i>Talanta</i> , 2022 , 242, 123294	6.2	0
108	DropCRISPR: A LAMP-Cas12a based digital method for ultrasensitive detection of nucleic acid. <i>Biosensors and Bioelectronics</i> , 2022 , 211, 114377	11.8	4
107	Rotary Valve-Assisted Fluidic System Coupling with CRISPR/Cas12a for Fully Integrated Nucleic Acid Detection. <i>ACS Sensors</i> , 2021 , 6, 4048-4056	9.2	3
106	Carrying out pseudo dual nucleic acid detection from sample to visual result in a polypropylene bag with CRISPR/Cas12a. <i>Biosensors and Bioelectronics</i> , 2021 , 178, 113001	11.8	16
105	CRISPR/Cas12a-Based Versatile Method for Checking Quantitative Polymerase Chain Reaction Samples with Cycles of Threshold Values in the Gray Zone. <i>ACS Sensors</i> , 2021 , 6, 1963-1970	9.2	3
104	Ultrafast visual nucleic acid detection with CRISPR/Cas12a and rapid PCR in single capillary. <i>Sensors and Actuators B: Chemical</i> , 2021 , 326, 128618	8.5	9
103	Versatile detection with CRISPR/Cas system from applications to challenges. <i>TrAC - Trends in Analytical Chemistry</i> , 2021 , 135, 116150	14.6	27
102	A reversible valve-assisted chip coupling with integrated sample treatment and CRISPR/Cas12a for visual detection of <i>Vibrio parahaemolyticus</i> . <i>Biosensors and Bioelectronics</i> , 2021 , 188, 113352	11.8	11
101	Magnetic particles for integrated nucleic acid purification, amplification and detection without pipetting. <i>TrAC - Trends in Analytical Chemistry</i> , 2020 , 127, 115912	14.6	13
100	Rapid on-site detection of genetically modified soybean products by real-time loop-mediated isothermal amplification coupled with a designed portable amplifier. <i>Food Chemistry</i> , 2020 , 323, 126819	8.5	8
99	A high performance and flexible in-plane asymmetric micro-supercapacitor (MSC) fabricated with functional electrochemical-exfoliated graphene. <i>Journal of Electroanalytical Chemistry</i> , 2020 , 866, 114169	4.1	7
98	End-point dual specific detection of nucleic acids using CRISPR/Cas12a based portable biosensor. <i>Biosensors and Bioelectronics</i> , 2020 , 157, 112153	11.8	35
97	Selective endpoint visualized detection of <i>Vibrio parahaemolyticus</i> with CRISPR/Cas12a assisted PCR using thermal cycler for on-site application. <i>Talanta</i> , 2020 , 214, 120818	6.2	35
96	Nucleic acid amplification free biosensors for pathogen detection. <i>Biosensors and Bioelectronics</i> , 2020 , 153, 112049	11.8	52
95	A highly integrated system with rapid DNA extraction, recombinase polymerase amplification, and lateral flow biosensor for on-site detection of genetically modified crops. <i>Analytica Chimica Acta</i> , 2020 , 1109, 158-168	6.6	9

94	Recent advances in biosensor-integrated enrichment methods for preconcentrating and detecting the low-abundant analytes in agriculture and food samples. <i>TrAC - Trends in Analytical Chemistry</i> , 2020 , 128, 115914	14.6	11
93	Contamination-free visual detection of CaMV35S promoter amplicon using CRISPR/Cas12a coupled with a designed reaction vessel: Rapid, specific and sensitive. <i>Analytica Chimica Acta</i> , 2020 , 1096, 130-137	6.6	27
92	A Flexible, Recyclable, and High-Performance Pullulan-Based Triboelectric Nanogenerator (TENG). <i>Advanced Materials Technologies</i> , 2020 , 5, 1900905	6.8	8
91	Dehydrated CRISPR-mediated DNA analysis for visualized animal-borne virus sensing in the unprocessed blood sample. <i>Sensors and Actuators B: Chemical</i> , 2020 , 305, 127440	8.5	14
90	Visual detection for nucleic acid-based techniques as potential on-site detection methods. A review. <i>Analytica Chimica Acta</i> , 2020 , 1099, 1-15	6.6	38
89	Contamination-free visual detection of SARS-CoV-2 with CRISPR/Cas12a: A promising method in the point-of-care detection. <i>Biosensors and Bioelectronics</i> , 2020 , 169, 112642	11.8	59
88	Progress in molecular detection with high-speed nucleic acids thermocyclers. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2020 , 190, 113489	3.5	2
87	Phase-dependent ion-to-electron transducing efficiency of WS nanosheets for an all-solid-state potentiometric calcium sensor. <i>Mikrochimica Acta</i> , 2020 , 187, 525	5.8	1
86	Identification of pork in raw meat or cooked meatballs within 20 min using rapid PCR coupled with visual detection. <i>Food Control</i> , 2020 , 109, 106905	6.2	15
85	Cas12aVDet: A CRISPR/Cas12a-Based Platform for Rapid and Visual Nucleic Acid Detection. <i>Analytical Chemistry</i> , 2019 , 91, 12156-12161	7.8	124
84	A Filter Paper-Based Nanogenerator via Water-Drop Flow. <i>Advanced Sustainable Systems</i> , 2019 , 3, 1900043	3.2	9
83	Rapid fabrication of wearable carbon nanotube/graphite strain sensor for real-time monitoring of plant growth. <i>Carbon</i> , 2019 , 147, 295-302	10.4	33
82	Advanced DNA-based methods for the detection of peanut allergens in processed food. <i>TrAC - Trends in Analytical Chemistry</i> , 2019 , 114, 278-292	14.6	19
81	Uracil-Mediated New Photospacer-Adjacent Motif of Cas12a To Realize Visualized DNA Detection at the Single-Copy Level Free from Contamination. <i>Analytical Chemistry</i> , 2019 , 91, 11362-11366	7.8	49
80	Comparison of the free-standing flexible electrodes fabricated with metallic 1T or semiconducting 2H MoS ₂ nanosheets and high conductivity PEDOT:PSS. <i>Journal of Electroanalytical Chemistry</i> , 2019 , 848, 113277	4.1	6
79	Nicking enzyme-assisted amplification (NEAA) technology and its applications: A review. <i>Analytica Chimica Acta</i> , 2019 , 1050, 1-15	6.6	26
78	The enhanced capacitance performance of the modified polypyrrole with the mixture of carbon nanomaterials. <i>Journal of Electroanalytical Chemistry</i> , 2019 , 832, 380-384	4.1	11
77	Fluorescent DNA Probing Nanoscale MnO: Adsorption, Dissolution by Thiol, and Nanozyme Activity. <i>Langmuir</i> , 2018 , 34, 3094-3101	4	32

76	Technical aspects of nicking enzyme assisted amplification. <i>Analyst, The</i> , 2018 , 143, 1444-1453	5	20
75	Transition Metal Dichalcogenide Nanosheets for Visual Monitoring PCR Rivaling a Real-Time PCR Instrument. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 4409-4418	9.5	8
74	Counting DNA molecules with visual segment-based readouts in minutes. <i>Chemical Communications</i> , 2018 , 54, 1105-1108	5.8	10
73	A fast and visual method for duplex shrimp pathogens detection with high specificity using rapid PCR and molecular beacon. <i>Analytica Chimica Acta</i> , 2018 , 1040, 105-111	6.6	12
72	Carbon nanomaterial-enabled pesticide biosensors: Design strategy, biosensing mechanism, and practical application. <i>TrAC - Trends in Analytical Chemistry</i> , 2018 , 106, 62-83	14.6	78
71	Enhanced electrochemical charge storage performance by doping of copper phthalocyanine-3,4,4',4'-tetrasulfonic acid tetrasodium salt into polypyrrole/multi-walled carbon nanotubes 3D-nanostructured electrodes. <i>Electrochimica Acta</i> , 2018 , 265, 594-600	6.7	11
70	Interfacing DNA Oligonucleotides with Calcium Phosphate and Other Metal Phosphates. <i>Langmuir</i> , 2018 , 34, 14975-14982	4	14
69	Phase-Dependent Fluorescence Quenching Efficiency of MoS Nanosheets and Their Applications in Multiplex Target Biosensing. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 42009-42017	9.5	31
68	Recent advances in emerging DNA-based methods for genetically modified organisms (GMOs) rapid detection. <i>TrAC - Trends in Analytical Chemistry</i> , 2018 , 109, 19-31	14.6	22
67	An anti-passivation ink for the preparation of electrodes for use in electrochemical immunoassays. <i>Journal of Zhejiang University: Science B</i> , 2018 , 19, 726-734	4.5	2
66	Field Detection of Citrus Huanglongbing Associated with <i>Candidatus Liberibacter Asiaticus</i> by Recombinase Polymerase Amplification within 15 min. <i>Journal of Agricultural and Food Chemistry</i> , 2018 , 66, 5473-5480	5.7	17
65	A loop-mediated, isothermal amplification-based method for visual detection of <i>Vibrio parahaemolyticus</i> within only 1 h, from shrimp sampling to results. <i>Analytical Methods</i> , 2017 , 9, 1695-1701 ^{3,2}	3.2	10
64	Nanobody Based Immunoassay for Human Soluble Epoxide Hydrolase Detection Using Polymeric Horseradish Peroxidase (PolyHRP) for Signal Enhancement: The Rediscovery of PolyHRP?. <i>Analytical Chemistry</i> , 2017 , 89, 6248-6256	7.8	36
63	Exploring pralidoxime chloride as a universal electrochemical probe for organophosphorus pesticides detection. <i>Analytica Chimica Acta</i> , 2017 , 982, 78-83	6.6	22
62	Rapid Fabrication of Flexible and Stretchable Strain Sensor by Chitosan-Based Water Ink for Plants Growth Monitoring. <i>Advanced Materials Technologies</i> , 2017 , 2, 1700021	6.8	35
61	A highly specific strategy for in suit detection of DNA with nicking enzyme assisted amplification and lateral flow. <i>Sensors and Actuators B: Chemical</i> , 2017 , 253, 258-265	8.5	15
60	Instant, Visual, and Instrument-Free Method for On-Site Screening of GTS 40-3-2 Soybean Based on Body-Heat Triggered Recombinase Polymerase Amplification. <i>Analytical Chemistry</i> , 2017 , 89, 4413-4418 ^{7.8}	7.8	50
59	Rapid, Sensitive, and Carryover Contamination-Free Loop-Mediated Isothermal Amplification-Coupled Visual Detection Method for <i>Candidatus Liberibacter asiaticus</i> <i>Journal of Agricultural and Food Chemistry</i> , 2017 , 65, 8302-8310	5.7	21

58	Nominal effective immunoreaction volume of magnetic beads at single bead level. <i>Journal of Zhejiang University: Science B</i> , 2017 , 18, 845-853	4.5	3
57	Self-Assembly of Single-Layer CoAl-Layered Double Hydroxide Nanosheets on 3D Graphene Network Used as Highly Efficient Electrocatalyst for Oxygen Evolution Reaction. <i>Advanced Materials</i> , 2016 , 28, 7640-5	24	296
56	A nano-silver enzyme electrode for organophosphorus pesticide detection. <i>Analytical and Bioanalytical Chemistry</i> , 2016 , 408, 5819-5827	4.4	21
55	A powerless on-the-spot detection protocol for transgenic crops within 30min, from leaf sampling up to results. <i>Analytical and Bioanalytical Chemistry</i> , 2016 , 408, 657-62	4.4	7
54	An Amperometric Immunosensor Based on an Ionic Liquid and Single-Walled Carbon Nanotube Composite Electrode for Detection of Tetrodotoxin in Pufferfish. <i>Journal of Agricultural and Food Chemistry</i> , 2016 , 64, 6888-94	5.7	9
53	An Automated Immunoassay Based on Magnetic Microspheres for the Determination of Clenbuterol in Food. <i>Instrumentation Science and Technology</i> , 2015 , 43, 524-535	1.4	1
52	Unmodified screen-printed silver electrode for facile detection of organophosphorus pesticide. <i>Ionics</i> , 2015 , 21, 587-592	2.7	13
51	Writing Sensors on Solid Agricultural Products for In Situ Detection. <i>Analytical Chemistry</i> , 2015 , 87, 10703-8	3.8	15
50	Portable and amplicon contamination prevention cartridges for DNA amplification coupled to lateral flow detection. <i>Analytical Methods</i> , 2015 , 7, 3692-3696	3.2	1
49	Automatically Identifying Fusion Events between GLUT4 Storage Vesicles and the Plasma Membrane in TIRF Microscopy Image Sequences. <i>Computational and Mathematical Methods in Medicine</i> , 2015 , 2015, 610482	2.8	1
48	Simple screening strategy with only water bath needed for the identification of insect-resistant genetically modified rice. <i>Analytical Chemistry</i> , 2015 , 87, 1523-6	7.8	11
47	On-point detection of GM rice in 20 minutes with pullulan as CPA acceleration additive. <i>Analytical Methods</i> , 2014 , 6, 9198-9201	3.2	9
46	Portable pH-inspired electrochemical detection of DNA amplification. <i>Chemical Communications</i> , 2014 , 50, 8416-9	5.8	21
45	Determination of methyl parathion by solid-phase extraction on an ionic liquid/carbon nanotube composite electrode. <i>Analytical Methods</i> , 2014 , 6, 5886	3.2	13
44	Amperometric determination of organophosphorus pesticide by silver electrode using an acetylcholinesterase inhibition method. <i>Analytical Methods</i> , 2014 , 6, 924-929	3.2	25
43	Tracing phosphate ions generated during DNA amplification and its simple use for visual detection of isothermal amplified products. <i>Chemical Communications</i> , 2014 , 50, 14382-5	5.8	25
42	The detection of T-Nos, a genetic element present in GMOs, by cross-priming isothermal amplification with real-time fluorescence. <i>Analytical and Bioanalytical Chemistry</i> , 2014 , 406, 3069-78	4.4	18
41	Development of an electrochemically reduced graphene oxide modified disposable bismuth film electrode and its application for stripping analysis of heavy metals in milk. <i>Food Chemistry</i> , 2014 , 151, 65-71	8.5	128

40	High-performance flexible potentiometric sensing devices using free-standing graphene paper. <i>Journal of Materials Chemistry B</i> , 2013 , 1, 4781-4791	7.3	49
39	Construction of a carbon paste electrode based on ionic liquid for trace electrochemical detection of nitrite in food samples. <i>Analytical Methods</i> , 2013 , 5, 5146	3.2	10
38	Design and synthesis of a task-specific ionic liquid as a transducer in potentiometric sensors. <i>RSC Advances</i> , 2013 , 3, 19782	3.7	10
37	Impedimetric immunosensor based on gold nanoparticles modified graphene paper for label-free detection of Escherichia coli O157:H7. <i>Biosensors and Bioelectronics</i> , 2013 , 49, 492-8	11.8	152
36	Voltammetric detection of nitrate in water sample based on in situ copper-modified electrode. <i>Ionics</i> , 2013 , 19, 1171-1177	2.7	8
35	Comparison of monomeric and polymeric horseradish peroxidase as labels in competitive ELISA for small molecule detection. <i>Mikrochimica Acta</i> , 2013 , 180, 711-717	5.8	34
34	Screen-Printed Potentiometric Strip for Calcium Ion Determination in Water and Milk. <i>Transactions of the ASABE</i> , 2013 , 56, 739-744	0.9	4
33	Simultaneous determination of ascorbic acid, dopamine and uric acid using high-performance screen-printed graphene electrode. <i>Biosensors and Bioelectronics</i> , 2012 , 34, 70-6	11.8	317
32	A novel pH sensing membrane based on an ionic liquid-polymer composite. <i>Mikrochimica Acta</i> , 2012 , 176, 229-234	5.8	11
31	A fast and sensitive quantitative lateral flow immunoassay for Cry1Ab based on a novel signal amplification conjugate. <i>Sensors</i> , 2012 , 12, 11684-96	3.8	41
30	Determination of ascorbic acid levels in food samples by using an ionic liquid-carbon nanotube composite electrode. <i>Food Chemistry</i> , 2012 , 135, 362-7	8.5	37
29	Electrochemical Detection of Alkaline Phosphatase Using Ionic Liquid Modified Carbon Nanotubes Electrode. <i>Chinese Journal of Analytical Chemistry</i> , 2012 , 40, 835-840	1.6	6
28	All-solid-state nitrate-selective electrode and its application in drinking water. <i>Electrochimica Acta</i> , 2012 , 81, 186-190	6.7	34
27	Application of electrochemically reduced graphene oxide on screen-printed ion-selective electrode. <i>Analytical Chemistry</i> , 2012 , 84, 3473-9	7.8	135
26	Sensitive determination of (-)-epigallocatechin gallate in tea infusion using a novel ionic liquid carbon paste electrode. <i>Journal of Agricultural and Food Chemistry</i> , 2012 , 60, 6333-40	5.7	38
25	Determination of trace heavy metals in milk using an ionic liquid and bismuth oxide nanoparticles modified carbon paste electrode. <i>Science Bulletin</i> , 2012 , 57, 1781-1787		30
24	Evaluation of trace heavy metal levels in soil samples using an ionic liquid modified carbon paste electrode. <i>Journal of Agricultural and Food Chemistry</i> , 2011 , 59, 4418-23	5.7	49
23	Magnetic Beads Transfer Based Assay for Cry1 Ab Protein. <i>Chinese Journal of Analytical Chemistry</i> , 2011 , 39, 1318-1322	1.6	4

22	Development of an all-solid-state potassium ion-selective electrode using graphene as the solid-contact transducer. <i>Electrochemistry Communications</i> , 2011 , 13, 1529-1532	5.1	116
21	Direct electrochemical reduction of graphene oxide on ionic liquid doped screen-printed electrode and its electrochemical biosensing application. <i>Biosensors and Bioelectronics</i> , 2011 , 28, 204-9	11.8	196
20	Triphenylamine as a conductive solid material for fabricating carbon electrodes. <i>Mikrochimica Acta</i> , 2011 , 172, 241-245	5.8	5
19	The use of the platinum electrode coated with ultrathin poly(allylamine hydrochloride)/Nafion films for selective detection of hydrogen peroxide. <i>Ionics</i> , 2011 , 17, 443-449	2.7	4
18	Direct electrochemistry of double strand DNA on ionic liquid modified screen-printed graphite electrode. <i>Electrochimica Acta</i> , 2011 , 56, 4154-4158	6.7	6
17	An amperometric sensor based on Prussian blue and poly(o-phenylenediamine) modified glassy carbon electrode for the determination of hydrogen peroxide in beverages. <i>Food Chemistry</i> , 2011 , 126, 2005-9	8.5	45
16	Copper oxide nanoparticles and ionic liquid modified carbon electrode for the non-enzymatic electrochemical sensing of hydrogen peroxide. <i>Mikrochimica Acta</i> , 2010 , 171, 117-123	5.8	78
15	A Prussian blue-based amperometric sensor for the determination of hydrogen peroxide residues in milk. <i>Ionics</i> , 2010 , 16, 523-527	2.7	26
14	Heteronanostructure of Ag particle on titanate nanowire membrane with enhanced photocatalytic properties and bactericidal activities. <i>Journal of Hazardous Materials</i> , 2010 , 178, 1109-14	12.8	64
13	Development of an ionic liquid modified screen-printed graphite electrode and its sensing in determination of dopamine. <i>Electrochemistry Communications</i> , 2010 , 12, 1738-1741	5.1	49
12	Application and Research Development of Surface Plasmon Resonance-based Immunosensors for Protein Detection. <i>Chinese Journal of Analytical Chemistry</i> , 2010 , 38, 1052-1059	1.6	20
11	Development of a miniature silicon wafer fuel cell using L-ascorbic acid as fuel. <i>Journal of Zhejiang University: Science A</i> , 2008 , 9, 955-960	2.1	5
10	Application of Electrochemical Biosensors in Fermentation. <i>Chinese Journal of Analytical Chemistry</i> , 2008 , 36, 1749-1755	1.6	15
9	The Effect of the Closely-Spaced Working and Auxiliary Electrodes on the Performance of Electrochemical Oxygen Sensor. <i>Electroanalysis</i> , 2007 , 19, 1939-1943	3	2
8	Detection of metal ions by atomic emission spectroscopy from liquid-electrode discharge plasma. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2007 , 62, 1269-1272	3.1	35
7	Simulation Study of Nano Aqueous Flow Sensor Based on Amperometric Measurement. <i>Sensors</i> , 2006 , 6, 473-479	3.8	3
6	Micro flow sensor based on two closely spaced amperometric sensors. <i>Lab on A Chip</i> , 2005 , 5, 1344-7	7.2	18
5	Electrochemical time of flight flow sensor. <i>Sensors and Actuators A: Physical</i> , 2002 , 97-98, 68-74	3.9	48

- 4 The glucose sensor integratable in the microchannel. *Sensors and Actuators B: Chemical*, **2001**, 78, 221-227. 14
- 3 Amperometric determination of ascorbic acid on screen-printing ruthenium dioxide electrode. *Electrochemistry Communications*, **2000**, 2, 90-93. 5-1 64
- 2 Integration of impedance sensors in thin layer chromatographic plates. *Analyst, The*, **2000**, 125, 1375-1377. 4
- 1 Amperometric Glucose Sensor with Enzyme Covalently Immobilized by Sol-Gel Technology.. *Analytical Sciences*, **1999**, 15, 1029-1032. 1-7 11