

# Jianhan Lin

## List of Publications by Year in descending order

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74  
papers

3,109  
citations

136950

32  
h-index

161849

54  
g-index

74  
all docs

74  
docs citations

74  
times ranked

2873  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Review on Micromixers. <i>Micromachines</i> , 2017, 8, 274.	2.9	324
2	A microfluidic colorimetric biosensor for rapid detection of <i>Escherichia coli</i> O157:H7 using gold nanoparticle aggregation and smart phone imaging. <i>Biosensors and Bioelectronics</i> , 2019, 124-125, 143-149.	10.1	237
3	A microfluidic biosensor for online and sensitive detection of <i>Salmonella typhimurium</i> using fluorescence labeling and smartphone video processing. <i>Biosensors and Bioelectronics</i> , 2019, 140, 111333.	10.1	133
4	An ultrasensitive fluorescent biosensor using high gradient magnetic separation and quantum dots for fast detection of foodborne pathogenic bacteria. <i>Sensors and Actuators B: Chemical</i> , 2018, 265, 318-325.	7.8	100
5	A sensitive impedance biosensor based on immunomagnetic separation and urease catalysis for rapid detection of <i>Listeria monocytogenes</i> using an immobilization-free interdigitated array microelectrode. <i>Biosensors and Bioelectronics</i> , 2015, 74, 504-511.	10.1	96
6	Fast and sensitive detection of foodborne pathogen using electrochemical impedance analysis, urease catalysis and microfluidics. <i>Biosensors and Bioelectronics</i> , 2016, 86, 770-776.	10.1	90
7	Exploiting Enzyme Catalysis in Ultra-Low Ion Strength Media for Impedance Biosensing of Avian Influenza Virus Using a Bare Interdigitated Electrode. <i>Analytical Chemistry</i> , 2014, 86, 1965-1971.	6.5	82
8	An impedance immunosensor based on low-cost microelectrodes and specific monoclonal antibodies for rapid detection of avian influenza virus H5N1 in chicken swabs. <i>Biosensors and Bioelectronics</i> , 2015, 67, 546-552.	10.1	82
9	Recent advances on magnetic nanobead based biosensors: From separation to detection. <i>TrAC - Trends in Analytical Chemistry</i> , 2020, 128, 115915.	11.4	79
10	Gold Nanobones Enhanced Ultrasensitive Surface-Enhanced Raman Scattering Aptasensor for Detecting <i>Escherichia coli</i> O157:H7. <i>ACS Sensors</i> , 2020, 5, 588-596.	7.8	78
11	Efficient separation and quantitative detection of <i>Listeria monocytogenes</i> based on screen-printed interdigitated electrode, urease and magnetic nanoparticles. <i>Food Control</i> , 2017, 73, 555-561.	5.5	77
12	A microfluidic impedance biosensor based on immunomagnetic separation and urease catalysis for continuous-flow detection of <i>E. coli</i> O157:H7. <i>Sensors and Actuators B: Chemical</i> , 2018, 259, 1013-1021.	7.8	74
13	Microfluidic Colorimetric Biosensors Based on MnO <sub>2</sub> Nanozymes and Convergence–Divergence Spiral Micromixers for Rapid and Sensitive Detection of <i>Salmonella</i> . <i>ACS Sensors</i> , 2021, 6, 2883-2892.	7.8	73
14	A lab-on-chip device for the sample-in-result-out detection of viable <i>Salmonella</i> using loop-mediated isothermal amplification and real-time turbidity monitoring. <i>Lab on A Chip</i> , 2020, 20, 2296-2305.	6.0	66
15	A microfluidic biosensor for rapid and automatic detection of <i>Salmonella</i> using metal-organic framework and Raspberry Pi. <i>Biosensors and Bioelectronics</i> , 2021, 178, 113020.	10.1	65
16	Optical Biosensor for Rapid Detection of <i>Salmonella typhimurium</i> Based on Porous Gold@Platinum Nanocatalysts and a 3D Fluidic Chip. <i>ACS Sensors</i> , 2020, 5, 65-72.	7.8	62
17	A sensitive immunoassay for simultaneous detection of foodborne pathogens using MnO <sub>2</sub> nanoflowers-assisted loading and release of quantum dots. <i>Food Chemistry</i> , 2020, 322, 126719.	8.2	53
18	Rapid and sensitive detection of <i>Salmonella Typhimurium</i> using nickel nanowire bridge for electrochemical impedance amplification. <i>Talanta</i> , 2020, 211, 120715.	5.5	52

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19	A Label-Free Impedance Immunosensor Using Screen-Printed Interdigitated Electrodes and Magnetic Nanobeads for the Detection of <i>E. coli</i> O157:H7. <i>Biosensors</i> , 2015, 5, 791-803.	4.7	51
20	A capillary biosensor for rapid detection of <i>Salmonella</i> using Fe-nanocluster amplification and smart phone imaging. <i>Biosensors and Bioelectronics</i> , 2019, 127, 142-149.	10.1	51
21	Evaluation study of a portable impedance biosensor for detection of avian influenza virus. <i>Journal of Virological Methods</i> , 2011, 178, 52-58.	2.1	49
22	A sensitive biosensor using double-layer capillary based immunomagnetic separation and invertase-nanocluster based signal amplification for rapid detection of foodborne pathogen. <i>Biosensors and Bioelectronics</i> , 2018, 100, 583-590.	10.1	49
23	An optical biosensor using immunomagnetic separation, urease catalysis and pH indication for rapid and sensitive detection of <i>Listeria monocytogenes</i> . <i>Sensors and Actuators B: Chemical</i> , 2018, 258, 447-453.	7.8	47
24	A microfluidic signal-off biosensor for rapid and sensitive detection of <i>Salmonella</i> using magnetic separation and enzymatic catalysis. <i>Food Control</i> , 2019, 103, 186-193.	5.5	47
25	Sensitive and simultaneous detection of different pathogens by surface-enhanced Raman scattering based on aptamer and Raman reporter co-mediated gold tags. <i>Sensors and Actuators B: Chemical</i> , 2020, 317, 128182.	7.8	44
26	An Electrochemical Aptasensor Using Coaxial Capillary with Magnetic Nanoparticle, Urease Catalysis and PCB Electrode for Rapid and Sensitive Detection of <i>Escherichia coli</i> O157:H7. <i>Nanotheranostics</i> , 2017, 1, 403-414.	5.2	43
27	Rapid detection of <i>Salmonella Typhimurium</i> using magnetic nanoparticle immunoseparation, nanocluster signal amplification and smartphone image analysis. <i>Sensors and Actuators B: Chemical</i> , 2019, 284, 134-139.	7.8	43
28	An Acid-Responsive Microfluidic <i>Salmonella</i> Biosensor Using Curcumin as Signal Reporter and ZnO-Capped Mesoporous Silica Nanoparticles for Signal Amplification. <i>Sensors and Actuators B: Chemical</i> , 2020, 312, 127958.	7.8	43
29	An ultrasensitive biosensor for colorimetric detection of <i>Salmonella</i> in large-volume sample using magnetic grid separation and platinum loaded zeolitic imidazolate Framework-8 nanocatalysts. <i>Biosensors and Bioelectronics</i> , 2020, 150, 111862.	10.1	40
30	A Microfluidic Biosensor Based on Magnetic Nanoparticle Separation, Quantum Dots Labeling and MnO <sub>2</sub> Nanoflower Amplification for Rapid and Sensitive Detection of <i>Salmonella Typhimurium</i> . <i>Micromachines</i> , 2020, 11, 281.	2.9	40
31	An ultrasensitive biosensor for fast detection of <i>Salmonella</i> using 3D magnetic grid separation and urease catalysis. <i>Biosensors and Bioelectronics</i> , 2020, 157, 112160.	10.1	38
32	An impedance biosensor based on magnetic nanobead net and MnO <sub>2</sub> nanoflowers for rapid and sensitive detection of foodborne bacteria. <i>Biosensors and Bioelectronics</i> , 2021, 173, 112800.	10.1	37
33	An ultrasensitive impedance biosensor for <i>Salmonella</i> detection based on rotating high gradient magnetic separation and cascade reaction signal amplification. <i>Biosensors and Bioelectronics</i> , 2021, 176, 112921.	10.1	34
34	Biosensors Coupled with Signal Amplification Technology for the Detection of Pathogenic Bacteria: A Review. <i>Biosensors</i> , 2021, 11, 190.	4.7	33
35	A sensitive <i>Salmonella</i> biosensor using platinum nanoparticle loaded manganese dioxide nanoflowers and thin-film pressure detector. <i>Sensors and Actuators B: Chemical</i> , 2020, 321, 128616.	7.8	31
36	A microfluidic immunosensor for visual detection of foodborne bacteria using immunomagnetic separation, enzymatic catalysis and distance indication. <i>Mikrochimica Acta</i> , 2019, 186, 757.	5.0	30

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37	Combining impedance biosensor with immunomagnetic separation for rapid screening of Salmonella in poultry supply chains. <i>Poultry Science</i> , 2020, 99, 1606-1614.	3.4	30
38	Fe-MIL-88NH <sub>2</sub> Metal-Organic Framework Nanocubes Decorated with Pt Nanoparticles for the Detection of <i>Salmonella</i> . <i>ACS Applied Nano Materials</i> , 2021, 4, 5115-5122.	5.0	29
39	A Fluidic Device for Immunomagnetic Separation of Foodborne Bacteria Using Self-Assembled Magnetic Nanoparticle Chains. <i>Micromachines</i> , 2018, 9, 624.	2.9	28
40	DNA-mediated growth of noble metal nanomaterials for biosensing applications. <i>TrAC - Trends in Analytical Chemistry</i> , 2022, 148, 116533.	11.4	28
41	An enzyme-free biosensor for sensitive detection of <i>Salmonella</i> using curcumin as signal reporter and click chemistry for signal amplification. <i>Theranostics</i> , 2018, 8, 6263-6273.	10.0	26
42	Ratiometric fluorescent sensing system for drug residue analysis: Highly sensitive immunosensor using dual-emission quantum dots hybrid and compact smartphone based-device. <i>Analytica Chimica Acta</i> , 2020, 1102, 91-98.	5.4	26
43	Long-term in situ bioelectrochemical monitoring of biohythane process: Metabolic interactions and microbial evolution. <i>Bioresource Technology</i> , 2021, 332, 125119.	9.6	26
44	A high gradient and strength bioseparator with nano-sized immunomagnetic particles for specific separation and efficient concentration of <i>E. coli</i> O157:H7. <i>Journal of Magnetism and Magnetic Materials</i> , 2015, 378, 206-213.	2.3	24
45	A colorimetric immunosensor for determination of foodborne bacteria using rotating immunomagnetic separation, gold nanorod indication, and click chemistry amplification. <i>Mikrochimica Acta</i> , 2020, 187, 197.	5.0	24
46	A finger-actuated microfluidic biosensor for colorimetric detection of foodborne pathogens. <i>Food Chemistry</i> , 2022, 381, 131801.	8.2	23
47	Rapid and sensitive detection of <i>Escherichia coli</i> O157:H7 using coaxial channel-based DNA extraction and microfluidic PCR. <i>Journal of Dairy Science</i> , 2018, 101, 9736-9746.	3.4	22
48	Competitive activation cross amplification combined with smartphone-based quantification for point-of-care detection of single nucleotide polymorphism. <i>Biosensors and Bioelectronics</i> , 2021, 183, 113200.	10.1	20
49	Establishment of a simultaneous detection method for ten duck viruses using MALDI-TOF mass spectrometry. <i>Journal of Virological Methods</i> , 2019, 273, 113723.	2.1	16
50	A microfluidic biosensor for rapid detection of <i>Salmonella typhimurium</i> based on magnetic separation, enzymatic catalysis and electrochemical impedance analysis. <i>Chinese Chemical Letters</i> , 2022, 33, 3156-3160.	9.0	16
51	A Review on Magnetophoretic Immunoseparation. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 2152-2163.	0.9	15
52	Exploring Protein-Inorganic Hybrid Nanoflowers and Immune Magnetic Nanobeads to Detect <i>Salmonella Typhimurium</i> . <i>Nanomaterials</i> , 2018, 8, 1006.	4.1	15
53	A Rapid and Sensitive <i>Salmonella</i> Biosensor Based on Viscoelastic Inertial Microfluidics. <i>Sensors</i> , 2020, 20, 2738.	3.8	15
54	Recent Advances on Bioaerosol Collection and Detection in Microfluidic Chips. <i>Analytical Chemistry</i> , 2021, 93, 9013-9022.	6.5	15

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55	Automatic and multi-channel detection of bacteria on a slidable centrifugal disc based on FTA card nucleic acid extraction and recombinase aided amplification. <i>Lab on A Chip</i> , 2021, 22, 80-89.	6.0	15
56	Rapid identification of H5 avian influenza virus in chicken throat swab specimens using microfluidic real-time RT-PCR. <i>Analytical Methods</i> , 2014, 6, 2628.	2.7	12
57	Challenges and Perspectives for Biosensing of Bioaerosol Containing Pathogenic Microorganisms. <i>Micromachines</i> , 2021, 12, 798.	2.9	12
58	Hyperspectral dark-field microscopy for pathogen detection based on spectral angle mapping. <i>Sensors and Actuators B: Chemical</i> , 2022, 367, 132042.	7.8	10
59	Power-free microfluidic biosensing of Salmonella with slide multivalve and disposable syringe. <i>Biosensors and Bioelectronics</i> , 2022, 213, 114458.	10.1	10
60	A general-purpose signal processing algorithm for biological profiles using only first-order derivative information. <i>BMC Bioinformatics</i> , 2019, 20, 611.	2.6	9
61	A lab-on-a-tube biosensor for automatic detection of foodborne bacteria using rotated Halbach magnetic separation and Raspberry Pi imaging. <i>Talanta</i> , 2022, 239, 123095.	5.5	9
62	Continuous-Flow Separation and Efficient Concentration of Foodborne Bacteria from Large Volume Using Nickel Nanowire Bridge in Microfluidic Chip. <i>Micromachines</i> , 2019, 10, 644.	2.9	8
63	Magnetic Bead Chain-Based Continuous-Flow DNA Extraction for Microfluidic PCR Detection of Salmonella. <i>Micromachines</i> , 2021, 12, 384.	2.9	8
64	A lab-on-a-disc platform based on nickel nanowire net and smartphone imaging for rapid and automatic detection of foodborne bacteria. <i>Chinese Chemical Letters</i> , 2022, 33, 2091-2095.	9.0	7
65	Three-dimensional printed magnetophoretic system for the continuous flow separation of avian influenza H5N1 viruses. <i>Journal of Separation Science</i> , 2017, 40, 1540-1547.	2.5	6
66	From pretreatment to assay: A chemiluminescence- and optical fiber-based fully automated immunosensing (COFFAI) system. <i>Sensors and Actuators B: Chemical</i> , 2022, 362, 131820.	7.8	6
67	Sample-in-answer-out colorimetric detection of Salmonella typhimurium using non-enzymatic cascade amplification. <i>Analytica Chimica Acta</i> , 2022, 1218, 339850.	5.4	6
68	Slipchip-based immunomagnetic separation combined with loop-mediated isothermal amplification for rapid detection of Bacillus cereus with tetracycline resistance gene tetL in pasteurized milk. <i>Food Control</i> , 2022, 140, 109122.	5.5	5
69	Impedance Immunosensor Based on Interdigitated Array Microelectrodes for Rapid Detection of Avian Influenza Virus Subtype H5. <i>Sensor Letters</i> , 2013, 11, 1256-1260.	0.4	4
70	A portable viable Salmonella detection device based on microfluidic chip and recombinase aided amplification. <i>Chinese Chemical Letters</i> , 2023, 34, 107360.	9.0	4
71	Online Detection of Peroxidase Using 3D Printing, Active Magnetic Mixing, and Spectra Analysis. <i>BioMed Research International</i> , 2017, 2017, 1-8.	1.9	2
72	Development of automatic and efficient immuno-separator of foodborne pathogenic bacteria using magnetophoresis and magnetic mixing. <i>International Journal of Agricultural and Biological Engineering</i> , 2019, 12, 167-172.	0.6	2

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73	DNA-mediated Au@Ag@silica nanopopcorn fluorescent probe for in vivo near-infrared imaging of probiotic <i>Lactobacillus Plantarum</i> . <i>Biosensors and Bioelectronics</i> , 2022, 212, 114421.	10.1	2
74	Simple and rapid separation of <i>Haematococcus pluvialis</i> and ciliate based on the deanâ€coupled inertial microfluidics. <i>Journal of Separation Science</i> , 2022, 45, 3900-3908.	2.5	1