

Xueen Fang

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.

50
papers

1,253
citations

19
h-index

34
g-index

52
ext. papers

1,644
ext. citations

7.4
avg. IF

5.04
L-index

#	Paper	IF	Citations
50	CRISPR-microfluidic array for single-copy DNA mini barcoding and rapid field species identification. <i>Sensors and Actuators B: Chemical</i> , 2022 , 359, 131567	8.5	1
49	Wearable chem-biosensing devices: from basic research to commercial market. <i>Lab on A Chip</i> , 2021 , 21, 4285-4310	7.2	5
48	Sandwich/competitive immuno-sensors on micro-interface for SARS-CoV-2 neutralizing antibodies. <i>Analytica Chimica Acta</i> , 2021 , 1187, 339144	6.6	1
47	Rapid differential diagnosis of the B.1.617.2 (delta) variant of SARS-CoV-2 using an automated Cas12a-microfluidic system. <i>Chemical Communications</i> , 2021 , 57, 12270-12272	5.8	1
46	Lab in a tube: Isolation, extraction, and isothermal amplification detection of exosomal long noncoding RNA of gastric cancer. <i>Talanta</i> , 2021 , 225, 122090	6.2	7
45	Recent Progress in Detection and Profiling of Cancer Cell-Derived Exosomes. <i>Small</i> , 2021 , 17, e2007971	11	20
44	All-in-one microfluidic nucleic acid diagnosis system for multiplex detection of sexually transmitted pathogens directly from genitourinary secretions. <i>Talanta</i> , 2021 , 221, 121462	6.2	7
43	Detection of Allergen Genes in Peanut and Soybean by Circular Fluorescence Probe-Mediated Isothermal Amplification. <i>Food Analytical Methods</i> , 2021 , 14, 453-464	3.4	0
42	Efficient Microfluidic-Based Air Sampling/Monitoring Platform for Detection of Aerosol SARS-CoV-2 On-site. <i>Analytical Chemistry</i> , 2021 , 93, 4270-4276	7.8	8
41	Dual-modality loop-mediated isothermal amplification for pretreatment-free detection of Septin9 methylated DNA in colorectal cancer. <i>Mikrochimica Acta</i> , 2021 , 188, 307	5.8	1
40	A high-specificity flap probe-based isothermal nucleic acid amplification method based on recombinant FEN1-Bst DNA polymerase. <i>Biosensors and Bioelectronics</i> , 2021 , 192, 113503	11.8	1
39	Microfluidic-RT-LAMP chip for the point-of-care detection of emerging and re-emerging enteric coronaviruses in swine. <i>Analytica Chimica Acta</i> , 2020 , 1125, 57-65	6.6	14
38	Integrated Microfluidic Sample-to-Answer System for Direct Nucleic Acid-Based Detection of Group B in Clinical Vaginal/Anal Swab Samples. <i>ACS Sensors</i> , 2020 , 5, 1132-1139	9.2	12
37	Rapid and simultaneous analysis of twelve virulence factor genes by a microfluidic-CFPA chip for identifying diarrheagenic Escherichia coli. <i>Analyst, The</i> , 2020 , 145, 3814-3821	5	5
36	Microfluidic Immunoassays for Sensitive and Simultaneous Detection of IgG/IgM/Antigen of SARS-CoV-2 within 15 min. <i>Analytical Chemistry</i> , 2020 , 92, 9454-9458	7.8	103
35	Rapid Differential Diagnosis of Seven Human Respiratory Coronaviruses Based on Centrifugal Microfluidic Nucleic Acid Assay. <i>Analytical Chemistry</i> , 2020 , 92, 14297-14302	7.8	14
34	Loop-mediated isothermal amplification technique: principle, development and wide application in food safety. <i>Analytical Methods</i> , 2020 , 12, 5551-5561	3.2	6

33	Engineered Microneedles for Interstitial Fluid Cell-Free DNA Capture and Sensing Using Iontophoretic Dual-Extraction Wearable Patch. <i>Advanced Functional Materials</i> , 2020 , 30, 2000591	15.6	26
32	Washing-free centrifugal microchip fluorescence immunoassay for rapid and point-of-care detection of protein. <i>Analytica Chimica Acta</i> , 2020 , 1118, 18-25	6.6	13
31	In Situ Sampling and Monitoring Cell-Free DNA of the Epstein-Barr Virus from Dermal Interstitial Fluid Using Wearable Microneedle Patches. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 38448-38458	9.5	19
30	Bandage-like wearable flexible microfluidic recombinase polymerase amplification sensor for the rapid visual detection of nucleic acids. <i>Talanta</i> , 2019 , 204, 685-692	6.2	37
29	Sequence-Specific Probe-Mediated Isothermal Amplification for the Single-Copy Sensitive Detection of Nucleic Acid. <i>Analytical Chemistry</i> , 2019 , 91, 6738-6745	7.8	8
28	A hybridization chain reaction coupled with gold nanoparticles for allergen gene detection in peanut, soybean and sesame DNAs. <i>Analyst, The</i> , 2019 , 144, 3886-3891	5	17
27	Real-time fluorescence loop-mediated isothermal amplification assay for rapid and sensitive detection of <i>Streptococcus gallolyticus</i> subsp. <i>gallolyticus</i> associated with colorectal cancer. <i>Analytical and Bioanalytical Chemistry</i> , 2019 , 411, 6877-6887	4.4	3
26	Double signal amplification strategy for ultrasensitive electrochemical biosensor based on nuclease and quantum dot-DNA nanocomposites in the detection of breast cancer 1 gene mutation. <i>Biosensors and Bioelectronics</i> , 2019 , 142, 111544	11.8	25
25	Microfluidic-CFPA Chip for the Point-of-Care Detection of African Swine Fever Virus with a Median Time to Threshold in about 10 min. <i>ACS Sensors</i> , 2019 , 4, 3066-3071	9.2	21
24	Graphene Oxide-Based Suppression of Nonspecificity in Loop-Mediated Isothermal Amplification Enabling the Sensitive Detection of Cyclooxygenase-2 mRNA in Colorectal Cancer. <i>Analytical Chemistry</i> , 2019 , 91, 15694-15702	7.8	12
23	A graphene oxide-based paper chip integrated with the hybridization chain reaction for peanut and soybean allergen gene detection. <i>Talanta</i> , 2019 , 196, 64-70	6.2	10
22	Nano-biotinylated liposome-based immunoassay for the ultrasensitive detection of protein biomarker in urine. <i>Talanta</i> , 2018 , 179, 472-477	6.2	5
21	Equipment-free nucleic acid extraction and amplification on a simple paper disc for point-of-care diagnosis of rotavirus A. <i>Analytica Chimica Acta</i> , 2018 , 1018, 78-85	6.6	38
20	A novel exonuclease-assisted isothermal nucleic acid amplification with ultrahigh specificity mediated by full-length Bst DNA polymerase. <i>Chemical Communications</i> , 2018 , 54, 10562-10565	5.8	13
19	Magnetic-bioluminescent-nanoliposomes for ultrasensitive and portable detection of protein biomarkers in blood. <i>Analytica Chimica Acta</i> , 2018 , 1039, 98-107	6.6	9
18	Colorimetric LAMP microfluidic chip for detecting three allergens: peanut, sesame and soybean. <i>Scientific Reports</i> , 2018 , 8, 8682	4.9	38
17	Colorimetric DNA assay by exploiting the DNA-controlled peroxidase mimicking activity of mesoporous silica loaded with platinum nanoparticles. <i>Mikrochimica Acta</i> , 2018 , 185, 544	5.8	7
16	Gold nanoparticle-mediated nucleic acid isothermal amplification with enhanced specificity. <i>Analytica Chimica Acta</i> , 2018 , 1043, 150-157	6.6	24

15	Rapid detection of CALR type 1 and type 2 mutations using PNA-LNA clamping loop-mediated isothermal amplification on a CD-like microfluidic chip. <i>Analytica Chimica Acta</i> , 2018 , 1024, 123-135	6.6	14
14	DNA-mediated inhibition of peroxidase-like activities on platinum nanoparticles for simple and rapid colorimetric detection of nucleic acids. <i>Biosensors and Bioelectronics</i> , 2017 , 94, 169-175	11.8	46
13	Magnetic-Immuno-Loop-Mediated Isothermal Amplification Based on DNA Encapsulating Liposome for the Ultrasensitive Detection of P-glycoprotein. <i>Scientific Reports</i> , 2017 , 7, 9312	4.9	5
12	DNA nanomachine-assisted magnetic bead based target recycling and isothermal amplification for sensitive fluorescence determination of interferon- γ . <i>Mikrochimica Acta</i> , 2017 , 184, 4869-4877	5.8	3
11	Ultrasensitive detection of mucin 1 biomarker by immuno-loop-mediated isothermal amplification. <i>Talanta</i> , 2017 , 164, 588-592	6.2	16
10	A Simple Paper-Based Colorimetric Device for Rapid Mercury(II) Assay. <i>Scientific Reports</i> , 2016 , 6, 31948	4.9	61
9	Paper-based fluorescence resonance energy transfer assay for directly detecting nucleic acids and proteins. <i>Biosensors and Bioelectronics</i> , 2016 , 80, 79-83	11.8	38
8	A novel bio-microcircuit for bio-assays. <i>RSC Advances</i> , 2016 , 6, 75875-75879	3.7	
7	Rapid nucleic acid detection of Zaire ebolavirus on paper fluidics. <i>RSC Advances</i> , 2015 , 5, 64614-64616	3.7	11
6	Protein-inorganic hybrid nanoflowers as ultrasensitive electrochemical cytosensing interfaces for evaluation of cell surface sialic acid. <i>Biosensors and Bioelectronics</i> , 2015 , 68, 329-335	11.8	82
5	A real-time microfluidic multiplex electrochemical loop-mediated isothermal amplification chip for differentiating bacteria. <i>Biosensors and Bioelectronics</i> , 2014 , 60, 84-91	11.8	67
4	Paper-based microfluidics with high resolution, cut on a glass fiber membrane for bioassays. <i>Lab on A Chip</i> , 2014 , 14, 911-5	7.2	55
3	A portable and integrated nucleic acid amplification microfluidic chip for identifying bacteria. <i>Lab on A Chip</i> , 2012 , 12, 1495-9	7.2	70
2	Microfluidic devices constructed by a marker pen on a silica gel plate for multiplex assays. <i>Analytical Chemistry</i> , 2011 , 83, 3596-9	7.8	21
1	Loop-mediated isothermal amplification integrated on microfluidic chips for point-of-care quantitative detection of pathogens. <i>Analytical Chemistry</i> , 2010 , 82, 3002-6	7.8	227