Xueen Fang

List of Publications by Citations

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	Loop-mediated isothermal amplification integrated on microfluidic chips for point-of-care quantitative detection of pathogens. *Analytical Chemistry*, **2010**, 82, 3002-6	7.8	227
49	Microfluidic Immunoassays for Sensitive and Simultaneous Detection of IgG/IgM/Antigen of SARS-CoV-2 within 15 min. *Analytical Chemistry*, **2020**, 92, 9454-9458	7.8	103
48	Protein-inorganic hybrid nanoflowers as ultrasensitive electrochemical cytosensing interfaces for evaluation of cell surface sialic acid. *Biosensors and Bioelectronics*, **2015**, 68, 329-335	11.8	82
47	A portable and integrated nucleic acid amplification microfluidic chip for identifying bacteria. *Lab on A Chip*, **2012**, 12, 1495-9	7.2	70
46	A real-time microfluidic multiplex electrochemical loop-mediated isothermal amplification chip for differentiating bacteria. *Biosensors and Bioelectronics*, **2014**, 60, 84-91	11.8	67
45	A Simple Paper-Based Colorimetric Device for Rapid Mercury(II) Assay. *Scientific Reports*, **2016**, 6, 31948	4.9	61
44	Paper-based microfluidics with high resolution, cut on a glass fiber membrane for bioassays. *Lab on A Chip*, **2014**, 14, 911-5	7.2	55
43	DNA-mediated inhibition of peroxidase-like activities on platinum nanoparticles for simple and rapid colorimetric detection of nucleic acids. *Biosensors and Bioelectronics*, **2017**, 94, 169-175	11.8	46
42	Equipment-free nucleic acid extraction and amplification on a simple paper disc for point-of-care diagnosis of rotavirus A. *Analytica Chimica Acta*, **2018**, 1018, 78-85	6.6	38
41	Paper-based fluorescence resonance energy transfer assay for directly detecting nucleic acids and proteins. *Biosensors and Bioelectronics*, **2016**, 80, 79-83	11.8	38
40	Colorimetric LAMP microfluidic chip for detecting three allergens: peanut, sesame and soybean. *Scientific Reports*, **2018**, 8, 8682	4.9	38
39	Bandage-like wearable flexible microfluidic recombinase polymerase amplification sensor for the rapid visual detection of nucleic acids. *Talanta*, **2019**, 204, 685-692	6.2	37
38	Engineered Microneedles for Interstitial Fluid Cell-Free DNA Capture and Sensing Using Iontophoretic Dual-Extraction Wearable Patch. *Advanced Functional Materials*, **2020**, 30, 2000591	15.6	26
37	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. *Biosensors and Bioelectronics*, **2019**, 142, 111544	11.8	25
36	Gold nanoparticle-mediated nucleic acid isothermal amplification with enhanced specificity. *Analytica Chimica Acta*, **2018**, 1043, 150-157	6.6	24
35	Microfluidic-CFPA Chip for the Point-of-Care Detection of African Swine Fever Virus with a Median Time to Threshold in about 10 min. *ACS Sensors*, **2019**, 4, 3066-3071	9.2	21
34	Microfluidic devices constructed by a marker pen on a silica gel plate for multiplex assays. *Analytical Chemistry*, **2011**, 83, 3596-9	7.8	21

33	Recent Progress in Detection and Profiling of Cancer Cell-Derived Exosomes. *Small*, **2021**, 17, e2007971	11	20
32	In Situ Sampling and Monitoring Cell-Free DNA of the Epstein-Barr Virus from Dermal Interstitial Fluid Using Wearable Microneedle Patches. *ACS Applied Materials & Interfaces*, **2019**, 11, 38448-38458	9.5	19
31	A hybridization chain reaction coupled with gold nanoparticles for allergen gene detection in peanut, soybean and sesame DNAs. *Analyst, The*, **2019**, 144, 3886-3891	5	17
30	Ultrasensitive detection of mucin 1 biomarker by immuno-loop-mediated isothermal amplification. *Talanta*, **2017**, 164, 588-592	6.2	16
29	Microfluidic-RT-LAMP chip for the point-of-care detection of emerging and re-emerging enteric coronaviruses in swine. *Analytica Chimica Acta*, **2020**, 1125, 57-65	6.6	14
28	Rapid Differential Diagnosis of Seven Human Respiratory Coronaviruses Based on Centrifugal Microfluidic Nucleic Acid Assay. *Analytical Chemistry*, **2020**, 92, 14297-14302	7.8	14
27	Rapid detection of CALR type 1 and type 2 mutations using PNA-LNA clamping loop-mediated isothermal amplification on a CD-like microfluidic chip. *Analytica Chimica Acta*, **2018**, 1024, 123-135	6.6	14
26	A novel exonuclease-assisted isothermal nucleic acid amplification with ultrahigh specificity mediated by full-length Bst DNA polymerase. *Chemical Communications*, **2018**, 54, 10562-10565	5.8	13
25	Washing-free centrifugal microchip fluorescence immunoassay for rapid and point-of-care detection of protein. *Analytica Chimica Acta*, **2020**, 1118, 18-25	6.6	13
24	Integrated Microfluidic Sample-to-Answer System for Direct Nucleic Acid-Based Detection of Group B in Clinical Vaginal/Anal Swab Samples. *ACS Sensors*, **2020**, 5, 1132-1139	9.2	12
23	Graphene Oxide-Based Suppression of Nonspecificity in Loop-Mediated Isothermal Amplification Enabling the Sensitive Detection of Cyclooxygenase-2 mRNA in Colorectal Cancer. *Analytical Chemistry*, **2019**, 91, 15694-15702	7.8	12
22	Rapid nucleic acid detection of Zaire ebolavirus on paper fluidics. *RSC Advances*, **2015**, 5, 64614-64616	3.7	11
21	A graphene oxide-based paper chip integrated with the hybridization chain reaction for peanut and soybean allergen gene detection. *Talanta*, **2019**, 196, 64-70	6.2	10
20	Magnetic-bioluminescent-nanoliposomes for ultrasensitive and portable detection of protein biomarkers in blood. *Analytica Chimica Acta*, **2018**, 1039, 98-107	6.6	9
19	Sequence-Specific Probe-Mediated Isothermal Amplification for the Single-Copy Sensitive Detection of Nucleic Acid. *Analytical Chemistry*, **2019**, 91, 6738-6745	7.8	8
18	Efficient Microfluidic-Based Air Sampling/Monitoring Platform for Detection of Aerosol SARS-CoV-2 On-site. *Analytical Chemistry*, **2021**, 93, 4270-4276	7.8	8
17	Lab in a tube: Isolation, extraction, and isothermal amplification detection of exosomal long noncoding RNA of gastric cancer. *Talanta*, **2021**, 225, 122090	6.2	7
16	All-in-one microfluidic nucleic acid diagnosis system for multiplex detection of sexually transmitted pathogens directly from genitourinary secretions. *Talanta*, **2021**, 221, 121462	6.2	7

15	Colorimetric DNA assay by exploiting the DNA-controlled peroxidase mimicking activity of mesoporous silica loaded with platinum nanoparticles. *Mikrochimica Acta*, **2018**, 185, 544	5.8	7
14	Loop-mediated isothermal amplification technique: principle, development and wide application in food safety. *Analytical Methods*, **2020**, 12, 5551-5561	3.2	6
13	Rapid and simultaneous analysis of twelve virulence factor genes by a microfluidic-CFPA chip for identifying diarrheagenic Escherichia coli. *Analyst, The*, **2020**, 145, 3814-3821	5	5
12	Nano-biotinylated liposome-based immunoassay for the ultrasensitive detection of protein biomarker in urine. *Talanta*, **2018**, 179, 472-477	6.2	5
11	Magnetic-Immuno-Loop-Mediated Isothermal Amplification Based on DNA Encapsulating Liposome for the Ultrasensitive Detection of P-glycoprotein. *Scientific Reports*, **2017**, 7, 9312	4.9	5
10	Wearable chem-biosensing devices: from basic research to commercial market. *Lab on A Chip*, **2021**, 21, 4285-4310	7.2	5
9	Real-time fluorescence loop-mediated isothermal amplification assay for rapid and sensitive detection of Streptococcus gallolyticus subsp. gallolyticus associated with colorectal cancer. *Analytical and Bioanalytical Chemistry*, **2019**, 411, 6877-6887	4.4	3
8	DNA nanomachine-assisted magnetic bead based target recycling and isothermal amplification for sensitive fluorescence determination of interferon-*Mikrochimica Acta*, **2017**, 184, 4869-4877	5.8	3
7	CRISPR-microfluidic array for single-copy DNA mini barcoding and rapid field species identification. *Sensors and Actuators B: Chemical*, **2022**, 359, 131567	8.5	1
6	Sandwich/competitive immuno-sensors on micro-interface for SARS-CoV-2 neutralizing antibodies. *Analytica Chimica Acta*, **2021**, 1187, 339144	6.6	1
5	Rapid differential diagnosis of the B.1.617.2 (delta) variant of SARS-CoV-2 using an automated Cas12a-microfluidic system. *Chemical Communications*, **2021**, 57, 12270-12272	5.8	1
4	Dual-modality loop-mediated isothermal amplification for pretreatment-free detection of Septin9 methylated DNA in colorectal cancer. *Mikrochimica Acta*, **2021**, 188, 307	5.8	1
3	A high-specificity flap probe-based isothermal nucleic acid amplification method based on recombinant FEN1-Bst DNA polymerase. *Biosensors and Bioelectronics*, **2021**, 192, 113503	11.8	1
2	Detection of Allergen Genes in Peanut and Soybean by Circular Fluorescence Probe-Mediated Isothermal Amplification. *Food Analytical Methods*, **2021**, 14, 453-464	3.4	0
1	A novel bio-microcircuit for bio-assays. *RSC Advances*, **2016**, 6, 75875-75879	3.7	