

# Fei Liu

## List of Publications by Year in descending order

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Version: 2024-02-01

42  
papers

875  
citations

567144

15  
h-index

501076

28  
g-index

42  
all docs

42  
docs citations

42  
times ranked

1102  
citing authors

#	ARTICLE	IF	CITATIONS
1	Rapid and ultra-sensitive detection of African swine fever virus antibody on site using QDM based-ASFV immunosensor (QAIS). <i>Analytica Chimica Acta</i> , 2022, 1189, 339187.	2.6	10
2	Quantitative and Selective DNA Detection with Portable Personal Glucose Meter Using Loop-Based DNA Competitive Hybridization Strategy. <i>Methods in Molecular Biology</i> , 2022, 2393, 473-478.	0.4	1
3	SARS-CoV-2 detection using quantum dot fluorescence immunochromatography combined with isothermal amplification and CRISPR/Cas13a. <i>Biosensors and Bioelectronics</i> , 2022, 202, 113978.	5.3	34
4	Quantum dot microsphere-based immunochromatography test strip enabled sensitive and quantitative on-site detections for multiple mycotoxins in grains. <i>Food Chemistry</i> , 2022, 376, 131868.	4.2	19
5	Rapid and sensitive detection of African swine fever virus in pork using recombinase aided amplification combined with QDMs-based test strip. <i>Analytical and Bioanalytical Chemistry</i> , 2022, 414, 3885-3894.	1.9	5
6	Quantitative ciprofloxacin on-site rapid detections using quantum dot microsphere based immunochromatographic test strips. <i>Food Chemistry</i> , 2021, 335, 127596.	4.2	42
7	Paper-based antibiotic sensor (PAS) relying on colorimetric indirect competitive enzyme-linked immunosorbent assay for quantitative tetracycline and chloramphenicol detection. <i>Sensors and Actuators B: Chemical</i> , 2021, 329, 129173.	4.0	49
8	Beneficial impacts of fermented celery ( <i>Apium graveolens</i> L.) juice on obesity prevention and gut microbiota modulation in high-fat diet fed mice. <i>Food and Function</i> , 2021, 12, 9151-9164.	2.1	28
9	Dynamic Dissection of the Endocytosis of Porcine Epidemic Diarrhea Coronavirus Cooperatively Mediated by Clathrin and Caveolae as Visualized by Single-Virus Tracking. <i>MBio</i> , 2021, 12, .	1.8	15
10	Dynamically probing ATP dependent RNA helicase A assisted RNA structure conversion using single molecule fluorescence resonance energy transfer. <i>Protein Science</i> , 2021, 30, 1157-1168.	3.1	2
11	Sensitive antibody fluorescence immunosorbent assay (SAFIA) for rapid on-site detection on avian influenza virus H9N2 antibody. <i>Analytica Chimica Acta</i> , 2021, 1164, 338524.	2.6	1
12	Amplification-free smartphone-based attomolar HBV detection. <i>Biosensors and Bioelectronics</i> , 2021, 194, 113622.	5.3	6
13	Rapid quantitative detection for multiple antibiotics in honey using a quantum dot microsphere immunochromatographic strip. <i>Food Control</i> , 2021, 130, 108256.	2.8	13
14	Dynamic Dissection of Dynein and Kinesin-1 Cooperatively Mediated Intercellular Transport of Porcine Epidemic Diarrhea Coronavirus along Microtubule Using Single Virus Tracking. <i>Virulence</i> , 2021, 12, 615-629.	1.8	13
15	Genome-scale CRISPR screen identifies TMEM41B as a multi-function host factor required for coronavirus replication. <i>PLoS Pathogens</i> , 2021, 17, e1010113.	2.1	31
16	FRET-based fluorescent nanoprobe platform for sorting of active microorganisms by functional properties. <i>Biosensors and Bioelectronics</i> , 2020, 148, 111832.	5.3	12
17	Rapid quantitative interferometric microscopy using fast Fourier transform and differential integral based phase retrieval algorithm (FFT-DI-PRA). <i>Optics Communications</i> , 2020, 456, 124613.	1.0	3
18	Dynamics of transmissible gastroenteritis virus internalization unraveled by single virus tracking in live cells. <i>FASEB Journal</i> , 2020, 34, 4653-4669.	0.2	17

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19	Quantitative Detection and Real-Time Monitoring of Endogenous mRNA at the Single Live Cell Level Using a Ratiometric Molecular Beacon. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 28752-28761.	4.0	9
20	Quantitative remote and on-site Hg <sup>2+</sup> detection using the handheld smartphone based optical fiber fluorescence sensor (SOFFS). <i>Sensors and Actuators B: Chemical</i> , 2019, 301, 127168.	4.0	44
21	Sunlight based handheld smartphone spectrometer. <i>Biosensors and Bioelectronics</i> , 2019, 143, 111632.	5.3	29
22	Quantitative protein detection using single molecule imaging enzyme-linked immunosorbent assay (iELISA). <i>Analytical Biochemistry</i> , 2019, 587, 113466.	1.1	7
23	Higher Order Transport of Intensity Equation Methods: Comparisons and Their Hybrid Application for Noise Adaptive Phase Imaging. <i>IEEE Photonics Journal</i> , 2019, 11, 1-14.	1.0	2
24	On-site cell concentration and viability detections using smartphone based field-portable cell counter. <i>Analytica Chimica Acta</i> , 2019, 1077, 216-224.	2.6	11
25	On-site quantitative Hg <sup>2+</sup> measurements based on selective and sensitive fluorescence biosensor and miniaturized smartphone fluorescence microscope. <i>Biosensors and Bioelectronics</i> , 2019, 132, 238-247.	5.3	67
26	Handheld Inkjet Printing Paper Chip Based Smart Tetracycline Detector. <i>Micromachines</i> , 2019, 10, 27.	1.4	11
27	Real-time analysis of quantum dot labeled single porcine epidemic diarrhea virus moving along the microtubules using single particle tracking. <i>Scientific Reports</i> , 2019, 9, 1307.	1.6	11
28	Quantitative and selective DNA detection with portable personal glucose meter using loop-based DNA competitive hybridization strategy. <i>Sensors and Actuators B: Chemical</i> , 2019, 282, 197-203.	4.0	15
29	Measurements on ATP induced cellular fluctuations using real-time dual view transport of intensity phase microscopy. <i>Biomedical Optics Express</i> , 2019, 10, 2337.	1.5	11
30	In vivo simultaneous transcriptional activation of multiple genes in the brain using CRISPRa-dCas9-activator transgenic mice. <i>Nature Neuroscience</i> , 2018, 21, 440-446.	7.1	218
31	Sub-aperture switching based ptychographic iterative engine (sasPIE) method for quantitative imaging. <i>Optics Communications</i> , 2018, 410, 514-519.	1.0	0
32	Graphics processing unit (GPU) aided wavefront-based autofocusing in microscopy. <i>AIP Advances</i> , 2018, 8, .	0.6	6
33	Photochemical deposition fabricated highly sensitive localized surface plasmon resonance based optical fiber sensor. <i>Optics Communications</i> , 2018, 427, 301-305.	1.0	8
34	Identification and function analysis of canine stimulator of interferon gene (STING). <i>Microbial Pathogenesis</i> , 2017, 113, 202-208.	1.3	6
35	Phase measurements of erythrocytes affected by metal ions with quantitative interferometric microscopy. <i>Optical Engineering</i> , 2015, 54, 124105.	0.5	8
36	A label-free and self-assembled electrochemical biosensor for highly sensitive detection of cyclic diguanylate monophosphate (c-di-GMP) based on RNA riboswitch. <i>Analytica Chimica Acta</i> , 2015, 882, 22-26.	2.6	9

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37	Quantitative interferometric microscopy cytometer based on regularized optical flow algorithm. Optics Communications, 2015, 350, 222-229.	1.0	16
38	RNA aptamer based electrochemical biosensor for sensitive and selective detection of cAMP. Biosensors and Bioelectronics, 2015, 66, 238-243.	5.3	51
39	Gravity driven high throughput phase detecting cytometer based on quantitative interferometric microscopy. Optics Communications, 2014, 316, 5-9.	1.0	15
40	Highly sensitive and rapid bacteria detection using molecular beacon@Au nanoparticles hybrid nanoprobe. Biosensors and Bioelectronics, 2014, 57, 133-138.	5.3	20
41	Quantitative interferometric microscopic flow cytometer with expanded principal component analysis method. Proceedings of SPIE, 2014, , .	0.8	0
42	Fast pixel shifting phase unwrapping algorithm in quantitative interferometric microscopy. Proceedings of SPIE, 2014, , .	0.8	0