Fei Liu

List of Publications by Year
in descending order

42	875	567144 15	501076 28
papers	citations	h-index	g-index

42	42	42	1102
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	In vivo simultaneous transcriptional activation of multiple genes in the brain using CRISPRâ€“dCas9-activator transgenic mice. Nature Neuroscience, 2018, 21, 440-446.	7.1	218
2	On-site quantitative Hg2+ measurements based on selective and sensitive fluorescence biosensor and miniaturized smartphone fluorescence microscope. Biosensors and Bioelectronics, 2019, 132, 238-247.	5.3	67
3	RNA aptamer based electrochemical biosensor for sensitive and selective detection of cAMP. Biosensors and Bioelectronics, 2015, 66, 238-243.	5.3	51
4	Paper-based antibiotic sensor (PAS) relying on colorimetric indirect competitive enzyme-linked immunosorbent assay for quantitative tetracycline and chloramphenicol detection. Sensors and Actuators B: Chemical, 2021, 329, 129173.	4.0	49
5	Quantitative remote and on-site Hg2+ detection using the handheld smartphone based optical fiber fluorescence sensor (SOFFS). Sensors and Actuators B: Chemical, 2019, 301, 127168.	4.0	44
6	Quantitative ciprofloxacin on-site rapid detections using quantum dot microsphere based immunochromatographic test strips. Food Chemistry, 2021, 335, 127596.	4.2	42
7	SARS-CoV-2 detection using quantum dot fluorescence immunochromatography combined with isothermal amplification and CRISPR/Cas13a. Biosensors and Bioelectronics, 2022, 202, 113978.	5.3	34
8	Genome-scale CRISPR screen identifies TMEM41B as a multi-function host factor required for coronavirus replication. PLoS Pathogens, 2021, 17, e1010113.	2.1	31
9	Sunlight based handheld smartphone spectrometer. Biosensors and Bioelectronics, 2019, 143, 111632.	5.3	29
10	Beneficial impacts of fermented celery (Apium graveolens L.) juice on obesity prevention and gut microbiota modulation in high-fat diet fed mice. Food and Function, 2021, 12, 9151-9164.	2.1	28
11	Highly sensitive and rapid bacteria detection using molecular beaconâ€“Au nanoparticles hybrid nanoprobes. Biosensors and Bioelectronics, 2014, 57, 133-138.	5.3	20
12	Quantum dot microsphere-based immunochromatography test strip enabled sensitive and quantitative on-site detections for multiple mycotoxins in grains. Food Chemistry, 2022, 376, 131868.	4.2	19
13	Dynamics of transmissible gastroenteritis virus internalization unraveled by singleâ€virus tracking in live cells. FASEB Journal, 2020, 34, 4653-4669.	0.2	17
14	Quantitative interferometric microscopy cytometer based on regularized optical flow algorithm. Optics Communications, 2015, 350, 222-229.	1.0	16
15	Gravity driven high throughput phase detecting cytometer based on quantitative interferometric microscopy. Optics Communications, 2014, 316, 5-9.	1.0	15
16	Quantitative and selective DNA detection with portable personal glucose meter using loop-based DNA competitive hybridization strategy. Sensors and Actuators B: Chemical, 2019, 282, 197-203.	4.0	15
17	Dynamic Dissection of the Endocytosis of Porcine Epidemic Diarrhea Coronavirus Cooperatively Mediated by Clathrin and Caveolae as Visualized by Single-Virus Tracking. MBio, 2021, 12, .	1.8	15
18	Rapid quantitative detection for multiple antibiotics in honey using a quantum dot microsphere immunochromatographic strip. Food Control, 2021, 130, 108256.	2.8	13

#	Article	IF	Citations
19	Dynamic Dissection of Dynein and Kinesin-1 Cooperatively Mediated Intercellular Transport of Porcine Epidemic Diarrhea Coronavirus along Microtubule Using Single Virus Tracking. Virulence, 2021, 12, 615-629.	1.8	13
20	FRET-based fluorescent nanoprobe platform for sorting of active microorganisms by functional properties. Biosensors and Bioelectronics, 2020, 148, 111832.	5.3	12
21	On-site cell concentration and viability detections using smartphone based field-portable cell counter. Analytica Chimica Acta, 2019, 1077, 216-224.	2.6	11
22	Handheld Inkjet Printing Paper Chip Based Smart Tetracycline Detector. Micromachines, 2019, 10, 27.	1.4	11
23	Real-time analysis of quantum dot labeled single porcine epidemic diarrhea virus moving along the microtubules using single particle tracking. Scientific Reports, 2019, 9, 1307.	1.6	11
24	Measurements on ATP induced cellular fluctuations using real-time dual view transport of intensity phase microscopy. Biomedical Optics Express, 2019, 10, 2337.	1.5	11
25	Rapid and ultra-sensitive detection of African swine fever virus antibody on site using QDM based-ASFV immunosensor (QAIS). Analytica Chimica Acta, 2022, 1189, 339187.	2.6	10
26	A label-free and self-assembled electrochemical biosensor for highly sensitive detection of cyclic diguanylate monophosphate (c-di-GMP) based on RNA riboswitch. Analytica Chimica Acta, 2015, 882, 22-26.	2.6	9
27	Quantitative Detection and Real-Time Monitoring of Endogenous mRNA at the Single Live Cell Level Using a Ratiometric Molecular Beacon. ACS Applied Materials & Interfaces, 2019, 11, 28752-28761.	4.0	9
28	Phase measurements of erythrocytes affected by metal ions with quantitative interferometric microscopy. Optical Engineering, 2015, 54, 124105.	0.5	8
29	Photochemical deposition fabricated highly sensitive localized surface plasmon resonance based optical fiber sensor. Optics Communications, 2018, 427, 301-305.	1.0	8
30	Quantitative protein detection using single molecule imaging enzyme-linked immunosorbent assay (iELISA). Analytical Biochemistry, 2019, 587, 113466.	1.1	7
31	Identification and function analysis of canine stimulator of interferon gene (STING). Microbial Pathogenesis, 2017, 113, 202-208.	1.3	6
32	Graphics processing unit (GPU) aided wavefront-based autofocusing in microscopy. AIP Advances, 2018, 8, .	0.6	6
33	Amplification-free smartphone-based attomolar HBV detection. Biosensors and Bioelectronics, 2021, 194, 113622.	5.3	6
34	Rapid and sensitive detection of African swine fever virus in pork using recombinase aided amplification combined with QDMs-based test strip. Analytical and Bioanalytical Chemistry, 2022, 414, 3885-3894.	1.9	5
35	Rapid quantitative interferometric microscopy using fast Fourier transform and differentialâ€“integral based phase retrieval algorithm (FFT-DI-PRA). Optics Communications, 2020, 456, 124613.	1.0	3
36	Higher Order Transport of Intensity Equation Methods: Comparisons and Their Hybrid Application for Noise Adaptive Phase Imaging. IEEE Photonics Journal, 2019, 11, 1-14.	1.0	2

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37	Dynamically probing ATP â€dependent RNA helicase A â€assisted RNA structure conversion using single molecule fluorescence resonance energy transfer. Protein Science, 2021, 30, 1157-1168.	3.1	2
38	Sensitive antibody fluorescence immunosorbent assay (SAFIA) for rapid on-site detection on avian influenza virus H9N2 antibody. Analytica Chimica Acta, 2021, 1164, 338524.	2.6	1
39	Quantitative and Selective DNA Detection with Portable Personal Glucose Meter Using Loop-Based DNA Competitive Hybridization Strategy. Methods in Molecular Biology, 2022, 2393, 473-478.	0.4	1
40	Quantitative interferometric microscopic flow cytometer with expanded principal component analysis method. Proceedings of SPIE, 2014, , .	0.8	0
41	Fast pixel shifting phase unwrapping algorithm in quantitative interferometric microscopy. Proceedings of SPIE, 2014, , .	0.8	0
42	Sub-aperture switching based ptychographic iterative engine (sasPIE) method for quantitative imaging. Optics Communications, 2018, 410, 514-519.	1.0	0