

# Jacky F C Loo

## List of Publications by Year in descending order

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Version: 2024-02-01

44  
papers

1,355  
citations

304743

22  
h-index

345221

36  
g-index

44  
all docs

44  
docs citations

44  
times ranked

2084  
citing authors

#	ARTICLE	IF	CITATIONS
1	Upconversion and downconversion nanoparticles for biophotonics and nanomedicine. <i>Coordination Chemistry Reviews</i> , 2019, 400, 213042.	18.8	100
2	Recent Advances in Surface Plasmon Resonance Imaging Sensors. <i>Sensors</i> , 2019, 19, 1266.	3.8	99
3	Polyphyllin D induces apoptosis in human erythrocytes through Ca <sup>2+</sup> rise and membrane permeabilization. <i>Archives of Toxicology</i> , 2012, 86, 741-752.	4.2	83
4	An aptamer-based bio-barcode assay with isothermal recombinase polymerase amplification for cytochrome-c detection and anti-cancer drug screening. <i>Talanta</i> , 2013, 115, 159-165.	5.5	62
5	Sample-to-answer on molecular diagnosis of bacterial infection using integrated lab-on-a-disc. <i>Biosensors and Bioelectronics</i> , 2017, 93, 212-219.	10.1	62
6	Monitoring bacterial growth using tunable resistive pulse sensing with a pore-based technique. <i>Applied Microbiology and Biotechnology</i> , 2014, 98, 855-862.	3.6	60
7	An aptasensor using DNA aptamer and white light common-path SPR spectral interferometry to detect cytochrome-c for anti-cancer drug screening. <i>Sensors and Actuators B: Chemical</i> , 2014, 198, 416-423.	7.8	56
8	Thermal gradient induced tweezers for the manipulation of particles and cells. <i>Scientific Reports</i> , 2016, 6, 35814.	3.3	56
9	Comparative transcriptomics of multidrug-resistant <i>Acinetobacter baumannii</i> in response to antibiotic treatments. <i>Scientific Reports</i> , 2018, 8, 3515.	3.3	53
10	Integrated Printed Microfluidic Biosensors. <i>Trends in Biotechnology</i> , 2019, 37, 1104-1120.	9.3	53
11	Thermal Optofluidics: Principles and Applications. <i>Advanced Optical Materials</i> , 2020, 8, 1900829.	7.3	49
12	Aptamer-based bio-barcode assay for the detection of cytochrome-c released from apoptotic cells. <i>Biochemical and Biophysical Research Communications</i> , 2010, 395, 560-564.	2.1	41
13	Physalin A exerts anti-tumor activity in non-small cell lung cancer cell lines by suppressing JAK/STAT3 signaling. <i>Oncotarget</i> , 2016, 7, 9462-9476.	1.8	41
14	Common-path spectral interferometry with temporal carrier for highly sensitive surface plasmon resonance sensing. <i>Optics Express</i> , 2013, 21, 20268.	3.4	38
15	Optofluidic guiding, valving, switching and mixing based on plasmonic heating in a random gold nanoisland substrate. <i>Lab on A Chip</i> , 2015, 15, 2504-2512.	6.0	38
16	Automated multiplex nucleic acid tests for rapid detection of SARS-CoV-2, influenza A and B infection with direct reverse-transcription quantitative PCR (dirRT-qPCR) assay in a centrifugal microfluidic platform. <i>RSC Advances</i> , 2020, 10, 34088-34098.	3.6	37
17	Identification of microRNAs in Throat Swab as the Biomarkers for Diagnosis of Influenza. <i>International Journal of Medical Sciences</i> , 2016, 13, 77-84.	2.5	35
18	A non-PCR SPR platform using RNase H to detect MicroRNA 29a-3p from throat swabs of human subjects with influenza A virus H1N1 infection. <i>Analyst</i> , The, 2015, 140, 4566-4575.	3.5	34

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19	Prevalence and genetic diversity analysis of human coronaviruses among cross-border children. <i>Virology Journal</i> , 2017, 14, 230.	3.4	33
20	Automated real-time detection of drug-resistant <i>Mycobacterium tuberculosis</i> on a lab-on-a-disc by Recombinase Polymerase Amplification. <i>Analytical Biochemistry</i> , 2018, 544, 98-107.	2.4	28
21	Development of a direct reverse-transcription quantitative PCR (dirRT-qPCR) assay for clinical Zika diagnosis. <i>International Journal of Infectious Diseases</i> , 2019, 85, 167-174.	3.3	27
22	Differential expression of long non-coding RNAs in patients with tuberculosis infection. <i>Tuberculosis</i> , 2017, 107, 73-79.	1.9	26
23	Target trapping and in situ single-cell genetic marker detection with a focused optical beam. <i>Biosensors and Bioelectronics</i> , 2019, 133, 236-242.	10.1	26
24	Surface Coordination of Black Phosphorus with Modified Cisplatin. <i>Bioconjugate Chemistry</i> , 2019, 30, 1658-1664.	3.6	25
25	A rapid sample-to-answer analytical detection of genetically modified papaya using loop-mediated isothermal amplification assay on lab-on-a-disc for field use. <i>Food Chemistry</i> , 2019, 274, 822-830.	8.2	25
26	Identification of serum MicroRNAs as diagnostic biomarkers for influenza H7N9 infection. <i>Virology Reports</i> , 2017, 7, 1-8.	0.4	20
27	The Essential Component in DNA-Based Information Storage System: Robust Error-Tolerating Module. <i>Frontiers in Bioengineering and Biotechnology</i> , 2014, 2, 49.	4.1	18
28	Real-time multi-channel SPR sensing based on DMD-enabled angular interrogation. <i>Optics Express</i> , 2018, 26, 24627.	3.4	17
29	An Aptamer Bio-barCode (ABC) assay using SPR, RNase H, and probes with RNA and gold-nanorods for anti-cancer drug screening. <i>Analyst</i> , 2017, 142, 3579-3587.	3.5	16
30	An Assay Using Localized Surface Plasmon Resonance and Gold Nanorods Functionalized with Aptamers to Sense the Cytochrome-c Released from Apoptotic Cancer Cells for Anti-Cancer Drug Effect Determination. <i>Micromachines</i> , 2017, 8, 338.	2.9	15
31	Antibody-free rapid diagnosis of malaria in whole blood with surface-enhanced Raman Spectroscopy using Nanostructured Gold Substrate. <i>Advances in Medical Sciences</i> , 2020, 65, 86-92.	2.1	13
32	Multidrug resistance protein 1 (ABCC1) confers resistance to arsenic compounds in human myeloid leukemic HL-60 cells. <i>Archives of Toxicology</i> , 2013, 87, 1013-1023.	4.2	11
33	Motor-assisted chip-in-a-tube (MACT): a new 2- and 3-dimensional centrifugal microfluidic platform for biomedical applications. <i>Lab on A Chip</i> , 2017, 17, 474-483.	6.0	10
34	MicroRNA Biosensing with Two-Dimensional Surface Plasmon Resonance Imaging. <i>Methods in Molecular Biology</i> , 2017, 1571, 117-127.	0.9	8
35	Development of peptide-based chemiluminescence enzyme immunoassay (CLEIA) for diagnosis of dengue virus infection in human. <i>Analytical Biochemistry</i> , 2018, 556, 112-118.	2.4	8
36	Technological Advances in Multiscale Analysis of Single Cells in Biomedicine. <i>Advanced Biology</i> , 2019, 3, 1900138.	3.0	7

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37	DNA-Engineered Hydrogels with Light-Adaptive Plasmonic Responses. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	7
38	Characterizing Aptamers with Reconfigurable Chiral Plasmonic Assemblies. <i>Langmuir</i> , 2022, 38, 2954-2960.	3.5	6
39	Platelet mitochondrial cytochrome c oxidase subunit I variants with benzene poisoning. <i>Journal of Thoracic Disease</i> , 2018, 10, 6811-6818.	1.4	5
40	Development of a sensitive DMD-based 2D SPR sensor array using single-point detection strategy for multiple aptamer screening. <i>Sensors and Actuators B: Chemical</i> , 2020, 305, 127240.	7.8	4
41	Rapid Molecular Diagnosis of Bacterial Infection Using Integrated Lab-on-a-disc. <i>Procedia Technology</i> , 2017, 27, 224-225.	1.1	2
42	Abstract 3048: Study of mitochondria in multi-drug resistance and Polyphyllin D anti-cancer effect in hepatocellular carcinoma. , 2015, , .		1
43	3-Dimensional centrifugal microfluidic platform for the generation of discrete concentration gradients. , 2017, , .		0
44	Single-point detection strategy for probing 2D SPR sensor array (Conference Presentation). , 2020, , .		0