

# Hongju Mao

## List of Publications by Year in descending order

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Version: 2024-02-01

44  
papers

1,503  
citations

394421

19  
h-index

315739

38  
g-index

44  
all docs

44  
docs citations

44  
times ranked

2650  
citing authors

#	ARTICLE	IF	CITATIONS
1	A microfluidic chip integrated with a high-density PDMS-based microfiltration membrane for rapid isolation and detection of circulating tumor cells. <i>Biosensors and Bioelectronics</i> , 2015, 71, 380-386.	10.1	143
2	QDs-DNA nanosensor for the detection of hepatitis B virus DNA and the single-base mutants. <i>Biosensors and Bioelectronics</i> , 2010, 25, 1934-1940.	10.1	133
3	Label-free graphene biosensor targeting cancer molecules based on non-covalent modification. <i>Biosensors and Bioelectronics</i> , 2017, 87, 701-707.	10.1	131
4	Multi-nanomaterial electrochemical biosensor based on label-free graphene for detecting cancer biomarkers. <i>Biosensors and Bioelectronics</i> , 2014, 55, 464-469.	10.1	87
5	Absolute quantification of lung cancer related microRNA by droplet digital PCR. <i>Biosensors and Bioelectronics</i> , 2015, 74, 836-842.	10.1	87
6	Early Detection of Lung Cancer in Serum by a Panel of MicroRNA Biomarkers. <i>Clinical Lung Cancer</i> , 2015, 16, 313-319.e1.	2.6	82
7	Multiplexed detection of lung cancer biomarkers in patients serum with CMOS-compatible silicon nanowire arrays. <i>Biosensors and Bioelectronics</i> , 2017, 91, 482-488.	10.1	81
8	Absolute quantification of DNA methylation using microfluidic chip-based digital PCR. <i>Biosensors and Bioelectronics</i> , 2017, 96, 339-344.	10.1	67
9	Simultaneous Detection of High-Sensitivity Cardiac Troponin I and Myoglobin by Modified Sandwich Lateral Flow Immunoassay: Proof of Principle. <i>Clinical Chemistry</i> , 2011, 57, 1732-1738.	3.2	65
10	Absolute quantification and analysis of extracellular vesicle lncRNAs from the peripheral blood of patients with lung cancer based on multi-colour fluorescence chip-based digital PCR. <i>Biosensors and Bioelectronics</i> , 2019, 142, 111523.	10.1	61
11	Highly sensitive and selective lateral flow immunoassay based on magnetic nanoparticles for quantitative detection of carcinoembryonic antigen. <i>Talanta</i> , 2016, 161, 205-210.	5.5	53
12	Ultrafast multiplexed detection of SARS-CoV-2 RNA using a rapid droplet digital PCR system. <i>Biosensors and Bioelectronics</i> , 2021, 188, 113282.	10.1	52
13	Novel Graphene Biosensor Based on the Functionalization of Multifunctional Nano-bovine Serum Albumin for the Highly Sensitive Detection of Cancer Biomarkers. <i>Nano-Micro Letters</i> , 2019, 11, 20.	27.0	49
14	Rapid Isolation and Multiplexed Detection of Exosome Tumor Markers Via Queued Beads Combined with Quantum Dots in a Microarray. <i>Nano-Micro Letters</i> , 2019, 11, 59.	27.0	43
15	Evaluation of a modified lateral flow immunoassay for detection of high-sensitivity cardiac troponin I and myoglobin. <i>Biosensors and Bioelectronics</i> , 2013, 42, 522-525.	10.1	37
16	Highly sensitive detection of DNA methylation levels by using a quantum dot-based FRET method. <i>Nanoscale</i> , 2015, 7, 17547-17555.	5.6	37
17	Identification of biomarkers for the detection of early stage lung adenocarcinoma by microarray profiling of long noncoding RNAs. <i>Lung Cancer</i> , 2015, 88, 147-153.	2.0	36
18	A panel of promoter methylation markers for invasive and noninvasive early detection of NSCLC using a quantum dots-based FRET approach. <i>Biosensors and Bioelectronics</i> , 2016, 85, 641-648.	10.1	32

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19	Integrated microfluidic system for isolating exosome and analyzing protein marker PD-L1. <i>Biosensors and Bioelectronics</i> , 2022, 204, 113879.	10.1	28
20	Identification of long noncoding RNAs for the detection of early stage lung squamous cell carcinoma by microarray analysis. <i>Oncotarget</i> , 2017, 8, 13329-13337.	1.8	19
21	A microfluidic platform for high-purity separating circulating tumor cells at the single-cell level. <i>Talanta</i> , 2019, 200, 169-176.	5.5	18
22	Multiple exosome RNA analysis methods for lung cancer diagnosis through integrated on-chip microfluidic system. <i>Chinese Chemical Letters</i> , 2022, 33, 3188-3192.	9.0	17
23	Micro-PCR chip-based multifunctional ultrafast SARS-CoV-2 detection platform. <i>Lab on A Chip</i> , 2022, 22, 2671-2681.	6.0	16
24	Microfluidic integrated capacitive biosensor for C-reactive protein label-free and real-time detection. <i>Analyst</i> , 2021, 146, 5380-5388.	3.5	15
25	Investigation of Controllable Nanoscale Heat-Denatured Bovine Serum Albumin Films on Graphene. <i>Langmuir</i> , 2016, 32, 12623-12631.	3.5	14
26	Quantitative assessment of gene promoter methylation in non-small cell lung cancer using methylation-sensitive high-resolution melting. <i>Oncology Letters</i> , 2018, 15, 7639-7648.	1.8	14
27	Analyzing Human Periodontal Soft Tissue Inflammation and Drug Responses In Vitro Using Epithelium-Capillary Interface On-a-Chip. <i>Biosensors</i> , 2022, 12, 345.	4.7	12
28	Low-cost quantitative detection of nucleic acid using microbeads and microcolumn array chip. <i>Sensors and Actuators B: Chemical</i> , 2018, 258, 1302-1308.	7.8	11
29	Single-cell level point mutation analysis of circulating tumor cells through droplet microfluidics. <i>Chinese Chemical Letters</i> , 2022, 33, 2701-2704.	9.0	11
30	Direct detection of cancer biomarkers in blood using a replaceable modular polydimethylsiloxane pump. <i>Biomicrofluidics</i> , 2013, 7, 34105.	2.4	10
31	One-step hydrothermal synthesis of ultrabright water-soluble silicon nanoparticles for folate-receptor-mediated bioimaging. <i>Journal of Materials Science</i> , 2019, 54, 9707-9717.	3.7	10
32	Colorimetric oligonucleotide array for genotyping of hepatitis C virus based on the 5' non-coding region. <i>Clinica Chimica Acta</i> , 2008, 388, 22-27.	1.1	8
33	Clinical evaluation of a colorimetric oligonucleotide chip for genotyping hepatitis C virus. <i>Clinical Biochemistry</i> , 2010, 43, 214-219.	1.9	6
34	Uniform distribution of microspheres based on pressure difference for carcinoma-embryonic antigen detection. <i>Sensors and Actuators B: Chemical</i> , 2018, 258, 558-565.	7.8	4
35	Detection of KRAS mutations using double-stranded toehold-exchange probes. <i>Biosensors and Bioelectronics</i> , 2016, 80, 175-181.	10.1	3
36	A Novel Mass-Producible Capacitive Sensor with Fully Symmetric 3D Structure and Microfluidics for Cells Detection. <i>Sensors</i> , 2019, 19, 325.	3.8	3

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37	Chip-based visual detection of microRNA using DNA-functionalized gold nanoparticles. Science China Life Sciences, 2016, 59, 510-515.	4.9	2
38	Role of portable and wearable sensors in era of electronic healthcare and medical internet of things. Clinical EHealth, 2021, 4, 62-66.	7.5	2
39	Digital Microfluidic Chip Based on Direct Ink Writing For Nucleic Acid Multiplex PCR Detection. , 2022, , .		2
40	Long Non-Coding RNA in Non-Small Cell Lung Cancers. , 0, , .		1
41	Multi-Stage Microfluidic Capture Arrays for Detecting Various Alzheimer's Disease Biomarkers in Saliva. , 2021, , .		1
42	An emulsion digital PCR quantitative method based on microbeads and micropillar array chip. , 2017, , .		0
43	Integrated On-Chip Cellular Exosome Isolation and RNA Analysis Microsystem. , 2021, , .		0
44	An Electrowetting-Based Pre-Treatment System of Extracellular Vesicles For Rna Analysis. , 2022, , .		0