

# Hongju Mao

## List of Publications by Year in descending order

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44  
papers

1,503  
citations

394421

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315739

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all docs

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docs citations

44  
times ranked

2650  
citing authors

#	ARTICLE	IF	CITATIONS
1	Single-cell level point mutation analysis of circulating tumor cells through droplet microfluidics. Chinese Chemical Letters, 2022, 33, 2701-2704.	9.0	11
2	Digital Microfluidic Chip Based on Direct Ink Writing For Nucleic Acid Multiplex PCR Detection. , 2022, , .		2
3	An Electrowetting-Based Pre-Treatment System of Extracellular Vesicles For Rna Analysis. , 2022, , .		0
4	Integrated microfluidic system for isolating exosome and analyzing protein marker PD-L1. Biosensors and Bioelectronics, 2022, 204, 113879.	10.1	28
5	Multiple exosome RNA analysis methods for lung cancer diagnosis through integrated on-chip microfluidic system. Chinese Chemical Letters, 2022, 33, 3188-3192.	9.0	17
6	Micro-PCR chip-based multifunctional ultrafast SARS-CoV-2 detection platform. Lab on A Chip, 2022, 22, 2671-2681.	6.0	16
7	Analyzing Human Periodontal Soft Tissue Inflammation and Drug Responses In Vitro Using Epithelium-Capillary Interface On-a-Chip. Biosensors, 2022, 12, 345.	4.7	12
8	Microfluidic integrated capacitive biosensor for C-reactive protein label-free and real-time detection. Analyst, The, 2021, 146, 5380-5388.	3.5	15
9	Multi-Stage Microfluidic Capture Arrays for Detecting Various Alzheimer's Disease Biomarkers in Saliva. , 2021, , .		1
10	Integrated On-Chip Cellular Exosome Isolation and RNA Analysis Microsystem. , 2021, , .		0
11	Ultrafast multiplexed detection of SARS-CoV-2 RNA using a rapid droplet digital PCR system. Biosensors and Bioelectronics, 2021, 188, 113282.	10.1	52
12	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
13	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. Biosensors and Bioelectronics, 2019, 142, 111523.	10.1	61
14	Rapid Isolation and Multiplexed Detection of Exosome Tumor Markers Via Queued Beads Combined with Quantum Dots in a Microarray. Nano-Micro Letters, 2019, 11, 59.	27.0	43
15	A Novel Mass-Produced Capacitive Sensor with Fully Symmetric 3D Structure and Microfluidics for Cells Detection. Sensors, 2019, 19, 325.	3.8	3
16	One-step hydrothermal synthesis of ultrabright water-soluble silicon nanoparticles for folate-receptor-mediated bioimaging. Journal of Materials Science, 2019, 54, 9707-9717.	3.7	10
17	A microfluidic platform for high-purity separating circulating tumor cells at the single-cell level. Talanta, 2019, 200, 169-176.	5.5	18
18	Novel Graphene Biosensor Based on the Functionalization of Multifunctional Nano-bovine Serum Albumin for the Highly Sensitive Detection of Cancer Biomarkers. Nano-Micro Letters, 2019, 11, 20.	27.0	49

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19	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
20	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
21	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
22	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
23	Absolute quantification of DNA methylation using microfluidic chip-based digital PCR. <i>Biosensors and Bioelectronics</i> , 2017, 96, 339-344.	10.1	67
24	Label-free graphene biosensor targeting cancer molecules based on non-covalent modification. <i>Biosensors and Bioelectronics</i> , 2017, 87, 701-707.	10.1	131
25	An emulsion digital PCR quantitative method based on microbeads and micropillar array chip. , 2017, , .		0
26	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
27	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
28	Investigation of Controllable Nanoscale Heat-Denatured Bovine Serum Albumin Films on Graphene. <i>Langmuir</i> , 2016, 32, 12623-12631.	3.5	14
29	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
30	Chip-based visual detection of microRNA using DNA-functionalized gold nanoparticles. <i>Science China Life Sciences</i> , 2016, 59, 510-515.	4.9	2
31	Detection of KRAS mutations using double-stranded toehold-exchange probes. <i>Biosensors and Bioelectronics</i> , 2016, 80, 175-181.	10.1	3
32	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
33	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
34	Absolute quantification of lung cancer related microRNA by droplet digital PCR. <i>Biosensors and Bioelectronics</i> , 2015, 74, 836-842.	10.1	87
35	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
36	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

#	ARTICLE	IF	CITATIONS
37	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
38	Direct detection of cancer biomarkers in blood using a "place n play" modular polydimethylsiloxane pump. <i>Biomicrofluidics</i> , 2013, 7, 34105.	2.4	10
39	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
40	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
41	Clinical evaluation of a colorimetric oligonucleotide chip for genotyping hepatitis C virus. <i>Clinical Biochemistry</i> , 2010, 43, 214-219.	1.9	6
42	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
43	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
44	Long Non-Coding RNA in Non-Small Cell Lung Cancers. , 0, , .		1