Jiatao Lou

List of Publications by Year
in descending order

39 papers	1,478 citations	331670 21 h-index	345221 36 g-index
39 all docs	39 docs citations	39 times ranked	2357 citing authors

#	ARTICLE	IF	CITATIONS
1	Machine learning of serum metabolic patterns encodes early-stage lung adenocarcinoma. Nature Communications, 2020, 11, 3556.	12.8	151
2	Biomarkers for Hepatocellular Carcinoma. Biomarkers in Cancer, 2017, 9, 1179299X1668464.	3.6	115
3	Metabolic Fingerprinting on a Plasmonic Gold Chip for Mass Spectrometry Based *in Vitro* Diagnostics. ACS Central Science, 2018, 4, 223-229.	11.3	106
4	Multifunctional Magnetic Particles for Combined Circulating Tumor Cells Isolation and Cellular Metabolism Detection. Advanced Functional Materials, 2016, 26, 4016-4025.	14.9	99
5	High Performance, Multiplexed Lung Cancer Biomarker Detection on a Plasmonic Gold Chip. Advanced Functional Materials, 2016, 26, 7994-8002.	14.9	84
6	Diagnosis and prognosis of myocardial infarction on a plasmonic chip. Nature Communications, 2020, 11, 1654.	12.8	83
7	Plasma Levels of Heat Shock Protein 90 Alpha Associated with Lung Cancer Development and Treatment Responses. Clinical Cancer Research, 2014, 20, 6016-6022.	7.0	80
8	DNA Methylation Analysis of the SHOX2 and RASSF1A Panel in Bronchoalveolar Lavage Fluid for Lung Cancer Diagnosis. Journal of Cancer, 2017, 8, 3585-3591.	2.5	78
9	MiR-181a-5p inhibits cell proliferation and migration by targeting Kras in non-small cell lung cancer A549 cells. Acta Biochimica Et Biophysica Sinica, 2015, 47, 630-638.	2.0	69
10	Extraction, detection, and profiling of serum biomarkers using designed Fe3O4@SiO2@HA core–shell particles. Nano Research, 2018, 11, 68-79.	10.4	65
11	Quantification of Rare Circulating Tumor Cells in Non-Small Cell Lung Cancer by Ligand-Targeted PCR. PLoS ONE, 2013, 8, e80458.	2.5	64
12	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
13	Clinical Significance of Folate Receptor-positive Circulating Tumor Cells Detected by Ligand-targeted Polymerase Chain Reaction in Lung Cancer. Journal of Cancer, 2017, 8, 104-110.	2.5	51
14	Heterogeneous mutation pattern in tumor tissue and circulating tumor DNA warrants parallel NGS panel testing. Molecular Cancer, 2018, 17, 131.	19.2	46
15	Identification of A Panel of Serum microRNAs as Biomarkers for Early Detection of Lung Adenocarcinoma. Journal of Cancer, 2017, 8, 48-56.	2.5	41
16	Value of folate receptor-positive circulating tumour cells in the clinical management of indeterminate lung nodules: A non-invasive biomarker for predicting malignancy and tumour invasiveness. EBioMedicine, 2019, 41, 236-243.	6.1	38
17	A novel PHD-finger protein 14/KIF4A complex overexpressed in lung cancer is involved in cell mitosis regulation and tumorigenesis. Oncotarget, 2017, 8, 19684-19698.	1.8	28
18	Antigen detection based on background fluorescence quenching immunochromatographic assay. Analytica Chimica Acta, 2014, 841, 44-50.	5.4	26

#	Article	IF	Citations
19	Identification and distinction of non-small-cell lung cancer cells by intracellular SERS nanoprobes. RSC Advances, 2016, 6, 5401-5407.	3.6	26
20	Label-free Separation of Circulating Tumor Cells Using a Self-Amplified Inertial Focusing (SAIF) Microfluidic Chip. Analytical Chemistry, 2020, 92, 16170-16179.	6.5	25
21	Integrated microfluidic single-cell immunoblotting chip enables high-throughput isolation, enrichment and direct protein analysis of circulating tumor cells. Microsystems and Nanoengineering, 2022, 8, 13.	7.0	23
22	Quantification of plasma EGFR mutations in patients with lung cancers: Comparison of the performance of ARMS-Plus and droplet digital PCR. Lung Cancer, 2017, 114, 31-37.	2.0	22
23	Differential N-glycan patterns identified in lung adenocarcinoma by N-glycan profiling of formalin-fixed paraffin-embedded (FFPE) tissue sections. Journal of Proteomics, 2018, 172, 1-10.	2.4	22
24	Nanotechnology Strategies for the Analysis of Circulating Tumor DNA: A Review. Medical Science Monitor, 2020, 26, e921040.	1.1	11
25	High Expression of Long Noncoding RNA PCNA-AS1 Promotes Non-Small-Cell Lung Cancer Cell Proliferation and Oncogenic Activity via Upregulating CCND1. Journal of Cancer, 2020, 11, 1959-1967.	2.5	10
26	CLAmp‑seq: A Novel Amplicon‑Based NGS Assay with Concatemer Error Correction for Improved Detection of Actionable Mutations in Plasma cfDNA from Patients with NSCLC. Small Methods, 2020, 4, 1900357.	8.6	9
27	Performance comparison of commercial kits for isolating and detecting circulating tumor DNA. Scandinavian Journal of Clinical and Laboratory Investigation, 2021, 81, 276-281.	1.2	8
28	Quality Control of Next-generation Sequencing-based *In vitro* Diagnostic Test for Onco-relevant Mutations Using Multiplex Reference Materials in Plasma. Journal of Cancer, 2018, 9, 1680-1688.	2.5	7
29	A large-scale, multicentered trial evaluating the sensitivity and specificity of digital PCR versus ARMS-PCR for detecting ctDNA-based EGFR p.T790M in non-small-cell lung cancer patients. Translational Lung Cancer Research, 2021, 10, 3888-3901.	2.8	7
30	IQGAP1 Mediates Hcp1-Promoted Escherichia coli Meningitis by Stimulating the MAPK Pathway. Frontiers in Cellular and Infection Microbiology, 2017, 7, 132.	3.9	6
31	Diagnostics: High Performance, Multiplexed Lung Cancer Biomarker Detection on a Plasmonic Gold Chip (Adv. Funct. Mater. 44/2016). Advanced Functional Materials, 2016, 26, 7993-7993.	14.9	5
32	A Homogeneous Immunoassay Method for Detecting Interferon-Gamma in Patients with Latent Tuberculosis Infection. Journal of Microbiology and Biotechnology, 2016, 26, 588-595.	2.1	5
33	Synthetic Alloys: Multifunctional Magnetic Particles for Combined Circulating Tumor Cells Isolation and Cellular Metabolism Detection (Adv. Funct. Mater. 22/2016). Advanced Functional Materials, 2016, 26, 3750-3750.	14.9	3
34	Transcriptome-wide network analysis of squamous lung cancer reveals potential methylation genes. Asian Pacific Journal of Cancer Prevention, 2011, 12, 2349-52.	1.2	2
35	Simplified ARCHITECT microfluidic chip through a dual-flip strategy enables stable and versatile tumoroid formation combined with label-free quantitative proteomic analysis. Biofabrication, 2021, 13, 035024.	7.1	1
36	Diagnosis and prognosis for exercise-induced muscle injuries: from conventional imaging to emerging point-of-care testing. RSC Advances, 2020, 10, 38847-38860.	3.6	1

#	Article	IF	Citations
37	Nanoparticles as Co-matrix for Sensitive Detection of Nucleic Acids by Mass Spectrometry. , 2018, , .		0
38	The largest sample size (2,200 cases) pooled analysis of LT-PCR achieving quantitative determination of folate receptor-positive CTCs for lung cancer in China.. Journal of Clinical Oncology, 2016, 34, e23072-e23072.	1.6	0
39	Detecting ultra low-frequency variants and gene fusions in lung cancer patients using an amplicon-based Firefly NGS method.. Journal of Clinical Oncology, 2017, 35, e23062-e23062.	1.6	0