

Masahito Hosokawa

List of Publications by Year in descending order

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Version: 2024-02-01

54
papers

1,790
citations

361413

20
h-index

289244

40
g-index

63
all docs

63
docs citations

63
times ranked

2754
citing authors

#	ARTICLE	IF	CITATIONS
1	Size-Selective Microcavity Array for Rapid and Efficient Detection of Circulating Tumor Cells. <i>Analytical Chemistry</i> , 2010, 82, 6629-6635.	6.5	309
2	Size-Based Isolation of Circulating Tumor Cells in Lung Cancer Patients Using a Microcavity Array System. <i>PLoS ONE</i> , 2013, 8, e67466.	2.5	151
3	Massively parallel whole genome amplification for single-cell sequencing using droplet microfluidics. <i>Scientific Reports</i> , 2017, 7, 5199.	3.3	102
4	Single-cell genomics of uncultured bacteria reveals dietary fiber responders in the mouse gut microbiota. <i>Microbiome</i> , 2020, 8, 5.	11.1	100
5	Microcavity Array System for Size-Based Enrichment of Circulating Tumor Cells from the Blood of Patients with Small-Cell Lung Cancer. <i>Analytical Chemistry</i> , 2013, 85, 5692-5698.	6.5	89
6	Effects of short-term endurance exercise on gut microbiota in elderly men. <i>Physiological Reports</i> , 2018, 6, e13935.	1.7	89
7	Droplet-based microfluidics for high-throughput screening of a metagenomic library for isolation of microbial enzymes. <i>Biosensors and Bioelectronics</i> , 2015, 67, 379-385.	10.1	88
8	High-Density Microcavity Array for Cell Detection: Single-Cell Analysis of Hematopoietic Stem Cells in Peripheral Blood Mononuclear Cells. <i>Analytical Chemistry</i> , 2009, 81, 5308-5313.	6.5	74
9	High-Efficiency Single-Cell Entrapment and Fluorescence in Situ Hybridization Analysis Using a Poly(dimethylsiloxane) Microfluidic Device Integrated with a Black Poly(ethylene terephthalate) Micromesh. <i>Analytical Chemistry</i> , 2008, 80, 5139-5145.	6.5	57
10	Monodisperse Picoliter Droplets for Low-Bias and Contamination-Free Reactions in Single-Cell Whole Genome Amplification. <i>PLoS ONE</i> , 2015, 10, e0138733.	2.5	55
11	Microfluidic Device with Chemical Gradient for Single-Cell Cytotoxicity Assays. <i>Analytical Chemistry</i> , 2011, 83, 3648-3654.	6.5	48
12	Obtaining high-quality draft genomes from uncultured microbes by cleaning and co-assembly of single-cell amplified genomes. <i>Scientific Reports</i> , 2018, 8, 2059.	3.3	48
13	Slow-Cycling Cancer Stem Cells Regulate Progression and Chemoresistance in Colon Cancer. <i>Cancer Research</i> , 2020, 80, 4451-4464.	0.9	44
14	In Vivo Live Cell Imaging for the Quantitative Monitoring of Lipids by Using Raman Microspectroscopy. <i>Analytical Chemistry</i> , 2014, 86, 8224-8230.	6.5	43
15	Leukocyte counting from a small amount of whole blood using a size-controlled microcavity array. <i>Biotechnology and Bioengineering</i> , 2012, 109, 2017-2024.	3.3	34
16	In Situ Detection of Antibiotic Amphotericin B Produced in <i>Streptomyces nodosus</i> Using Raman Microspectroscopy. <i>Marine Drugs</i> , 2014, 12, 2827-2839.	4.6	30
17	Preparation of Genomic DNA from a Single Species of Uncultured Magnetotactic Bacterium by Multiple-Displacement Amplification. <i>Applied and Environmental Microbiology</i> , 2010, 76, 1480-1485.	3.1	28
18	Characterization of magnetic nanoparticles modified with thiol functionalized PAMAM dendron for DNA recovery. <i>Journal of Colloid and Interface Science</i> , 2012, 377, 469-475.	9.4	27

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19	Manipulation of a Single Circulating Tumor Cell Using Visualization of Hydrogel Encapsulation toward Single-Cell Whole-Genome Amplification. <i>Analytical Chemistry</i> , 2016, 88, 7230-7237.	6.5	26
20	Recovery of strain-resolved genomes from human microbiome through an integration framework of single-cell genomics and metagenomics. <i>Microbiome</i> , 2021, 9, 202.	11.1	23
21	Development of the automated circulating tumor cell recovery system with microcavity array. <i>Biosensors and Bioelectronics</i> , 2015, 67, 438-442.	10.1	22
22	Real-time detection of DNA hybridization on microarray using a CCD-based imaging system equipped with a rotated microlens array disk. <i>Biosensors and Bioelectronics</i> , 2011, 26, 1942-1946.	10.1	19
23	Combinatory use of distinct single-cell RNA-seq analytical platforms reveals the heterogeneous transcriptome response. <i>Scientific Reports</i> , 2018, 8, 3482.	3.3	19
24	Efficient DNA release from PAMAM dendrimer-modified superparamagnetic nanoparticles for DNA recovery. <i>Polymer Journal</i> , 2012, 44, 672-677.	2.7	18
25	Electrochemical disinfection of fish pathogens in seawater without the production of a lethal concentration of chlorine using a flow reactor. <i>Journal of Bioscience and Bioengineering</i> , 2013, 116, 480-484.	2.2	18
26	Monitoring of cellular behaviors by microcavity array-based single-cell patterning. <i>Analyst, The</i> , 2014, 139, 425-430.	3.5	17
27	Site-specific gene expression analysis using an automated tissue micro-dissection punching system. <i>Scientific Reports</i> , 2017, 7, 4325.	3.3	16
28	High-throughput identification of peptide agonists against GPCRs by co-culture of mammalian reporter cells and peptide-secreting yeast cells using droplet microfluidics. <i>Scientific Reports</i> , 2019, 9, 10920.	3.3	16
29	Digital Cell Counting Device Integrated with a Single-Cell Array. <i>PLoS ONE</i> , 2014, 9, e89011.	2.5	15
30	Effective microtissue RNA extraction coupled with Smart-seq2 for reproducible and robust spatial transcriptome analysis. <i>Scientific Reports</i> , 2020, 10, 7083.	3.3	15
31	Single-cell metabolite detection and genomics reveals uncultivated talented producer. , 2022, 1, .		15
32	Evaluation of the effects of cell-dispensing using an inkjet-based bioprinter on cell integrity by RNA-seq analysis. <i>Scientific Reports</i> , 2020, 10, 7158.	3.3	13
33	Sequential Sensing by TLR2 and Mincle Directs Immature Myeloid Cells to Protect against Invasive Group A Streptococcal Infection in Mice. <i>Cell Reports</i> , 2019, 27, 561-571.e6.	6.4	12
34	Strain-level profiling of viable microbial community by selective single-cell genome sequencing. <i>Scientific Reports</i> , 2022, 12, 4443.	3.3	11
35	TCR α repertoire analysis of antigen-specific single T cells using a high-density microcavity array. <i>Biotechnology and Bioengineering</i> , 2010, 106, 311-318.	3.3	9
36	Evaluation of cancer cell deformability by microcavity array. <i>Analytical Biochemistry</i> , 2017, 520, 16-21.	2.4	9

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37	Monitoring of benzene-induced hematotoxicity in mice by serial leukocyte counting using a microcavity array. <i>Biosensors and Bioelectronics</i> , 2013, 40, 110-114.	10.1	8
38	Rapid inspection method for investigating the heat processing conditions employed for chicken meat using Raman spectroscopy. <i>Journal of Bioscience and Bioengineering</i> , 2020, 129, 700-705.	2.2	8
39	Time-lapse single-cell transcriptomics reveals modulation of histone H3 for dormancy breaking in fission yeast. <i>Nature Communications</i> , 2020, 11, 1265.	12.8	7
40	Identification of two cancer stem cell-like populations in triple-negative breast cancer xenografts. <i>DMM Disease Models and Mechanisms</i> , 2022, 15, .	2.4	7
41	Simple and rapid CD4 testing based on large-field imaging system composed of microcavity array and two-dimensional photosensor. <i>Biosensors and Bioelectronics</i> , 2015, 67, 350-355.	10.1	6
42	Cortical transcriptome analysis after spinal cord injury reveals the regenerative mechanism of central nervous system in CRMP2 knock-in mice. <i>Neural Regeneration Research</i> , 2021, 16, 1258.	3.0	6
43	Assessment of Benzene-Induced Hematotoxicity Using a Human-Like Hematopoietic Lineage in NOD/Shi-scid/IL-2R β null Mice. <i>PLoS ONE</i> , 2012, 7, e50448.	2.5	6
44	Identification of lipolytic enzymes using high-throughput single-cell screening and sorting of a metagenomic library. <i>New Biotechnology</i> , 2022, 70, 102-108.	4.4	6
45	Bacterial Inactivation by Applying an Alternating Electromagnetic Field Using PAMAM Dendron-modified Magnetic Nanoparticles. <i>Electrochemistry</i> , 2016, 84, 324-327.	1.4	5
46	Distinctive Regulation of Emotional Behaviors and Fear-Related Gene Expression Responses in Two Extended Amygdala Subnuclei With Similar Molecular Profiles. <i>Frontiers in Molecular Neuroscience</i> , 2021, 14, 741895.	2.9	4
47	Integration of Droplet Microfluidic Tools for Single-cell Functional Metagenomics: An Engineering Head Start. <i>Genomics, Proteomics and Bioinformatics</i> , 2021, 19, 504-518.	6.9	4
48	Evaluation of a Microbial Sensor as a Tool for Antimicrobial Activity Test of Cosmetic Preservatives. <i>Biocontrol Science</i> , 2015, 20, 247-253.	0.8	2
49	High-Quality Draft Single-Cell Genome Sequences of Two <i>Gammaproteobacteria</i> Strains Sampled from Soil in a Strawberry Farm. <i>Microbiology Resource Announcements</i> , 2020, 9, .	0.6	2
50	A single-cell based biosensing device directed for lipophilic chemical screening and evaluation. <i>Journal of Bioscience and Bioengineering</i> , 2009, 108, S150-S151.	2.2	0
51	Analysis of environmental bacteria at single-cell level. , 2017, , .		0
52	Draft Genome Sequence of <i>Okeania</i> sp. Strain KiyG1, Assembled from Single-Amplified Genomes Collected from Cape Kiyau, Okinawa, Japan. <i>Microbiology Resource Announcements</i> , 2020, 9, .	0.6	0
53	Sensitivity of microcavity array system for circulating tumor cells in lung cancer patients.. <i>Journal of Clinical Oncology</i> , 2012, 30, e21007-e21007.	1.6	0
54	Single-cell genomics of environmental bacteria-Development of microfluidic droplet-based whole genome sequencing method and its application to environmental samples. <i>Japanese Journal of Lactic Acid Bacteria</i> , 2020, 31, 17-24.	0.1	0