

Masumi Yamada

List of Publications by Year in descending order

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74
papers

3,403
citations

218677

26
h-index

168389

53
g-index

76
all docs

76
docs citations

76
times ranked

3440
citing authors

#	ARTICLE	IF	CITATIONS
1	Process simplification and structure design of parallelized microslit isolator for physical property-based capture of tumor cells. <i>Analyst</i> , The, 2022, 147, 1622-1630.	3.5	1
2	Formation of 3D tissues of primary hepatocytes using fibrillized collagen microparticles as intercellular binders. <i>Journal of Bioscience and Bioengineering</i> , 2022, 133, 265-272.	2.2	3
3	Microengineering of Collagen Hydrogels Integrated into Microfluidic Devices for Perfusion Culture of Mammalian Cells. <i>MATEC Web of Conferences</i> , 2021, 333, 07006.	0.2	1
4	Polyanion-induced, microfluidic engineering of fragmented collagen microfibrils for reconstituting extracellular environments of 3D hepatocyte culture. <i>Materials Science and Engineering C</i> , 2021, 129, 112417.	7.3	8
5	Preparation of Microporous Hydrogel Sponges for 3D Perfusion Culture of Mammalian Cells. <i>MATEC Web of Conferences</i> , 2021, 333, 07004.	0.2	1
6	Laborless, Automated Microfluidic Tandem Cell Processor for Visualizing Intracellular Molecules of Mammalian Cells. <i>Analytical Chemistry</i> , 2020, 92, 2580-2588.	6.5	2
7	Sacrificial Alginate-Assisted Microfluidic Engineering of Cell-Supportive Protein Microfibers for Hydrogel-Based Cell Encapsulation. <i>ACS Omega</i> , 2020, 5, 21641-21650.	3.5	9
8	Hydrodynamic Microparticle Separation Mechanism Using Three-Dimensional Flow Profiles in Dual-Depth and Asymmetric Lattice-Shaped Microchannel Networks. <i>Micromachines</i> , 2019, 10, 425.	2.9	10
9	Enhanced Immunoabsorption on Imprinted Polymeric Microstructures with Nanoengineered Surface Topography for Lateral Flow Immunoassay Systems. <i>Analytical Chemistry</i> , 2019, 91, 13377-13382.	6.5	10
10	Thermally imprinted microcone structure-assisted lateral-flow immunoassay platforms for detecting disease marker proteins. <i>Analyst</i> , The, 2019, 144, 1519-1526.	3.5	16
11	One-Step Formation of Microporous Hydrogel Sponges Encapsulating Living Cells by Utilizing Bicontinuous Dispersion of Aqueous Polymer Solutions. <i>ACS Applied Bio Materials</i> , 2019, 2, 2237-2245.	4.6	13
12	A numbering-up strategy of hydrodynamic microfluidic filters for continuous-flow high-throughput cell sorting. <i>Lab on A Chip</i> , 2019, 19, 1828-1837.	6.0	20
13	Formation of pressurizable hydrogel-based vascular tissue models by selective gelation in composite PDMS channels. <i>RSC Advances</i> , 2019, 9, 9136-9144.	3.6	4
14	PDMS microstencil plate-supported fabrication of ultra-thin, condensed ECM membranes for separated cell coculture on both surfaces. <i>Sensors and Actuators B: Chemical</i> , 2019, 287, 486-495.	7.8	10
15	Preparation of Functional Microparticles Using Rapidly Shrinking Droplets in Microfluidic Channels. <i>Journal of the Society of Powder Technology, Japan</i> , 2019, 56, 398-402.	0.1	0
16	Adult hepatocytes direct liver organogenesis through non-parenchymal cell recruitment in the kidney. <i>Journal of Hepatology</i> , 2018, 68, 744-753.	3.7	4
17	Micropassage-embedding composite hydrogel fibers enable quantitative evaluation of cancer cell invasion under 3D coculture conditions. <i>Lab on A Chip</i> , 2018, 18, 1378-1387.	6.0	26
18	Development of a perfusable 3D liver cell cultivation system via bundling-up assembly of cell-laden microfibrils. <i>Journal of Bioscience and Bioengineering</i> , 2018, 126, 111-118.	2.2	38

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19	Multiphase Microfluidic Processes to Produce Alginate-Based Microparticles and Fibers. <i>Journal of Chemical Engineering of Japan</i> , 2018, 51, 318-330.	0.6	17
20	Slanted, asymmetric microfluidic lattices as size-selective sieves for continuous particle/cell sorting. <i>Lab on A Chip</i> , 2017, 17, 304-314.	6.0	54
21	Collagen Microparticle-Mediated 3D Cell Organization: A Facile Route to Bottom-up Engineering of Thick and Porous Tissues. <i>ACS Biomaterials Science and Engineering</i> , 2017, 3, 2144-2154.	5.2	22
22	Assembly of carbon nanotubes into microparticles with tunable morphologies using droplets in a non-equilibrium state. <i>RSC Advances</i> , 2017, 7, 17773-17780.	3.6	6
23	Direct Observation of Splitting in Oil-In-Water-In-Oil Emulsion Droplets via a Microchannel Mimicking Membrane Pores. <i>Langmuir</i> , 2017, 33, 14087-14092.	3.5	17
24	Control of invasion direction of cancer cells using hierarchically patterned hydrogel sheets. , 2017, , .		1
25	Microfluidics-based wet spinning of protein microfibers as solid scaffolds for 3D cell cultivation. , 2016, , .		0
26	Microfluidic System Enabling Multistep Tuning of Extraction Time Periods for Kinetic Analysis of Droplet-Based Liquid-Liquid Extraction. <i>Analytical Chemistry</i> , 2016, 88, 5637-5643.	6.5	10
27	Fabrication of multilayered vascular tissues using microfluidic agarose hydrogel platforms. <i>Biotechnology Journal</i> , 2016, 11, 1415-1423.	3.5	36
28	Size effect of engineered islets prepared using microfabricated wells on islet cell function and arrangement. <i>Heliyon</i> , 2016, 2, e00129.	3.2	30
29	A new method for continuous sorting of cells/particles using lattice-shaped dual-depth microchannels. , 2015, , .		4
30	One-step microfluidic spinning of collagen microfibers and their application to cell cultivation. , 2015, , .		1
31	Morphology control of protein microparticles produced using microfluidic droplets in a non-equilibrium state. , 2015, , .		2
32	Formation of Monodisperse Hierarchical Lipid Particles Utilizing Microfluidic Droplets in a Nonequilibrium State. <i>Langmuir</i> , 2015, 31, 2334-2341.	3.5	21
33	Cell-sized condensed collagen microparticles for preparing microengineered composite spheroids of primary hepatocytes. <i>Lab on A Chip</i> , 2015, 15, 3941-3951.	6.0	71
34	Patterned hydrogel microfibers prepared using multilayered microfluidic devices for guiding network formation of neural cells. <i>Biofabrication</i> , 2014, 6, 035011.	7.1	46
35	In vitro assessment of osteoblastic differentiation of encapsulated stromal cells in alginate/octacalcium phosphate. , 2014, , .		0
36	Shape control of cell-embedding hydrogel microstructures utilizing non-equilibrium aqueous two-phase systems. , 2014, , .		1

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37	Facile fabrication processes for hydrogel-based microfluidic devices made of natural biopolymers. <i>Biomicrofluidics</i> , 2014, 8, 024115.	2.4	32
38	Asymmetric lattice-shaped microchannel structures for continuous size-dependent cell sorting. , 2014, , .		0
39	One-step synthesis of spherical/nonspherical polymeric microparticles using non-equilibrium microfluidic droplets. <i>RSC Advances</i> , 2014, 4, 13557.	3.6	20
40	Microfluidic counterflow centrifugal elutriation system for sedimentation-based cell separation. <i>Microfluidics and Nanofluidics</i> , 2013, 14, 1049-1057.	2.2	17
41	Magnetophoresis-Integrated Hydrodynamic Filtration System for Size- and Surface Marker-Based Two-Dimensional Cell Sorting. <i>Analytical Chemistry</i> , 2013, 85, 7666-7673.	6.5	59
42	Preparation of stripe-patterned heterogeneous hydrogel sheets using microfluidic devices for high-density coculture of hepatocytes and fibroblasts. <i>Journal of Bioscience and Bioengineering</i> , 2013, 116, 761-767.	2.2	68
43	Microfabricated complex hydrogel fibers for quantitative evaluation of cancer cell invasion in in vivo tissue-like environments. , 2013, , .		0
44	A droplet-based microfluidic process to produce yarn-ball-shaped hydrogel microbeads. <i>RSC Advances</i> , 2013, 3, 12299.	3.6	12
45	Assembly techniques for artificial small diameter blood vessel structures. , 2013, , .		0
46	Microfluidic production of single micrometer-sized hydrogel beads utilizing droplet dissolution in a polar solvent. <i>Biomicrofluidics</i> , 2013, 7, 54120.	2.4	35
47	Formation of Cell Aggregates Using Microfabricated Hydrogel Chambers for Assembly into Larger Tissues. <i>Journal of Robotics and Mechatronics</i> , 2013, 25, 682-689.	1.0	9
48	Fabrication of Complex Hydrogel Materials by Utilizing Microfluidics and Micromolding. <i>Materials Research Society Symposia Proceedings</i> , 2012, 1415, 157.	0.1	0
49	Manipulation of cells and cell spheroids using collagen hydrogel microbeads prepared by microfluidic devices. , 2012, , .		2
50	Fabrication of vascular tissue models by assembling multiple cell types inside hydrogel microchannels. , 2012, , .		5
51	Microfluidic synthesis of chemically and physically anisotropic hydrogel microfibers for guided cell growth and networking. <i>Soft Matter</i> , 2012, 8, 3122.	2.7	158
52	Micropatterning of Hydrogels on Locally Hydrophilized Regions on PDMS by Stepwise Solution Dipping and in Situ Gelation. <i>Langmuir</i> , 2012, 28, 14073-14080.	3.5	17
53	Controlled formation of heterotypic hepatic micro-organoids in anisotropic hydrogel microfibers for long-term preservation of liver-specific functions. <i>Biomaterials</i> , 2012, 33, 8304-8315.	11.4	227
54	Fluidic preparation of patterned hydrogel fibers using micronozzle-array devices for neural cell guidance. , 2012, , .		0

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55	Isolation of cell nuclei in microchannels by short-term chemical treatment via two-step carrier medium exchange. <i>Biomedical Microdevices</i> , 2012, 14, 751-757.	2.8	16
56	Fabrication of functional hydrogel microbeads utilizing non-equilibrium microfluidics for biological applications. , 2011, , .		1
57	Microfluidics and microfabrication technology for highly precise cell manipulation and cultivation. , 2011, , .		1
58	Sedimentation pinched-flow fractionation for size- and density-based particle sorting in microchannels. <i>Microfluidics and Nanofluidics</i> , 2011, 11, 105-110.	2.2	90
59	Generation of uniform-size droplets by multistep hydrodynamic droplet division in microfluidic circuits. <i>Microfluidics and Nanofluidics</i> , 2011, 11, 601-610.	2.2	26
60	Blood cell classification utilizing hydrodynamic filtration. <i>Electronics and Communications in Japan</i> , 2011, 94, 1-6.	0.5	20
61	Observation of nonspherical particle behaviors for continuous shape-based separation using hydrodynamic filtration. <i>Biomicrofluidics</i> , 2011, 5, 24103.	2.4	56
62	Development of microfluidic cell nucleus separator employing rapid chemical treatment. , 2010, , .		1
63	Rapid Quantification of Disease-Marker Proteins Using Continuous-Flow Immunoseparation in a Nanosieve Fluidic Device. <i>Analytical Chemistry</i> , 2009, 81, 7067-7074.	6.5	19
64	Hydrodynamic control of droplet division in bifurcating microchannel and its application to particle synthesis. <i>Journal of Colloid and Interface Science</i> , 2008, 321, 401-407.	9.4	88
65	Millisecond treatment of cells using microfluidic devices via two-step carrier-medium exchange. <i>Lab on A Chip</i> , 2008, 8, 772.	6.0	43
66	Microfluidic devices for size-dependent separation of liver cells. <i>Biomedical Microdevices</i> , 2007, 9, 637-645.	2.8	110
67	A microfluidic flow distributor generating stepwise concentrations for high-throughput biochemical processing. <i>Lab on A Chip</i> , 2006, 6, 179.	6.0	50
68	Rapid enumeration of bacterial cells in drinking water using a microfluidic device. , 2006, , .		0
69	Microfluidic Particle Sorter Employing Flow Splitting and Recombining. <i>Analytical Chemistry</i> , 2006, 78, 1357-1362.	6.5	165
70	Continuous particle separation in a microchannel having asymmetrically arranged multiple branches. <i>Lab on A Chip</i> , 2005, 5, 778.	6.0	297
71	Hydrodynamic filtration for on-chip particle concentration and classification utilizing microfluidics. <i>Lab on A Chip</i> , 2005, 5, 1233.	6.0	448
72	Continuous cell partitioning using an aqueous two-phase flow system in microfluidic devices. <i>Biotechnology and Bioengineering</i> , 2004, 88, 489-494.	3.3	85

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73	Nanoliter-Sized Liquid Dispenser Array for Multiple Biochemical Analysis in Microfluidic Devices. Analytical Chemistry, 2004, 76, 895-899.	6.5	77
74	Pinched Flow Fractionation: A Continuous Size Separation of Particles Utilizing a Laminar Flow Profile in a Pinched Microchannel. Analytical Chemistry, 2004, 76, 5465-5471.	6.5	634