

Minoru Seki

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3509430/publications.pdf>

Version: 2024-02-01

190
papers

7,263
citations

61857

43
h-index

62479

80
g-index

193
all docs

193
docs citations

193
times ranked

5964
citing authors

#	ARTICLE	IF	CITATIONS
1	Pinched Flow Fractionation: A Continuous Size Separation of Particles Utilizing a Laminar Flow Profile in a Pinched Microchannel. <i>Analytical Chemistry</i> , 2004, 76, 5465-5471.	3.2	634
2	Hydrodynamic filtration for on-chip particle concentration and classification utilizing microfluidics. <i>Lab on A Chip</i> , 2005, 5, 1233.	3.1	448
3	Interfacial Tension Driven Monodispersed Droplet Formation from Microfabricated Channel Array. <i>Langmuir</i> , 2001, 17, 5562-5566.	1.6	417
4	Continuous particle separation in a microchannel having asymmetrically arranged multiple branches. <i>Lab on A Chip</i> , 2005, 5, 778.	3.1	297
5	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.	5.7	227
6	Preparation of Monodispersed Solid Lipid Microspheres Using a Microchannel Emulsification Technique. <i>Journal of Colloid and Interface Science</i> , 2000, 227, 95-103.	5.0	204
7	Characterization of Spontaneous Transformation-Based Droplet Formation during Microchannel Emulsification. <i>Journal of Physical Chemistry B</i> , 2002, 106, 9405-9409.	1.2	186
8	Integration of gene amplification and capillary gel electrophoresis on a polydimethylsiloxane-glass hybrid microchip. <i>Electrophoresis</i> , 2001, 22, 328-333.	1.3	166
9	Microfluidic Particle Sorter Employing Flow Splitting and Recombining. <i>Analytical Chemistry</i> , 2006, 78, 1357-1362.	3.2	165
10	Microfluidic synthesis of chemically and physically anisotropic hydrogel microfibers for guided cell growth and networking. <i>Soft Matter</i> , 2012, 8, 3122.	1.2	158
11	Effect of Channel Structure on Microchannel Emulsification. <i>Langmuir</i> , 2002, 18, 5708-5712.	1.6	145
12	Prediction of Droplet Diameter for Microchannel Emulsification. <i>Langmuir</i> , 2002, 18, 3854-3859.	1.6	134
13	Microfluidic devices for size-dependent separation of liver cells. <i>Biomedical Microdevices</i> , 2007, 9, 637-645.	1.4	110
14	Continuous and Size-Dependent Sorting of Emulsion Droplets Using Hydrodynamics in Pinched Microchannels. <i>Langmuir</i> , 2008, 24, 4405-4410.	1.6	100
15	Preparation characteristics of water-in-oil-in-water multiple emulsions using microchannel emulsification. <i>Journal of Colloid and Interface Science</i> , 2004, 270, 221-228.	5.0	99
16	Synthesis of Polymeric Microspheres with Narrow Size Distributions Employing Microchannel Emulsification. <i>Macromolecular Rapid Communications</i> , 2001, 22, 773-778.	2.0	97
17	Sedimentation pinched-flow fractionation for size- and density-based particle sorting in microchannels. <i>Microfluidics and Nanofluidics</i> , 2011, 11, 105-110.	1.0	90
18	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.	5.0	88

#	ARTICLE	IF	CITATIONS
19	Continuous cell partitioning using an aqueous two-phase flow system in microfluidic devices. <i>Biotechnology and Bioengineering</i> , 2004, 88, 489-494.	1.7	85
20	Nanoliter-Sized Liquid Dispenser Array for Multiple Biochemical Analysis in Microfluidic Devices. <i>Analytical Chemistry</i> , 2004, 76, 895-899.	3.2	77
21	Taxol (paclitaxel) production using free and immobilized cells of <i>Taxus cuspidata</i> . , 1997, 53, 214-219.		75
22	Preparation Characteristics of Monodispersed Water-in-Oil Emulsions Using Microchannel Emulsification.. <i>Journal of Chemical Engineering of Japan</i> , 2001, 34, 757-765.	0.3	74
23	Preparation of Monodispersed Polymeric Microspheres over 50 μ m Employing Microchannel Emulsification. <i>Industrial & Engineering Chemistry Research</i> , 2002, 41, 4043-4047.	1.8	71
24	Cell-sized condensed collagen microparticles for preparing microengineered composite spheroids of primary hepatocytes. <i>Lab on A Chip</i> , 2015, 15, 3941-3951.	3.1	71
25	Oil-water interfacial activation of lipase for interesterification of triglyceride and fatty acid. <i>JAACS, Journal of the American Oil Chemists' Society</i> , 2000, 77, 1121.	0.8	69
26	Effect of interfacial tension on the dynamic behavior of droplet formation during microchannel emulsification. <i>Journal of Colloid and Interface Science</i> , 2004, 269, 178-185.	5.0	69
27	Effect of temperature and its shift on growth and anthocyanin production in suspension cultures of strawberry cells. <i>Plant Science</i> , 1997, 127, 207-214.	1.7	68
28	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.	1.1	68
29	Continuous separation of particles using a microfluidic device equipped with flow rate control valves. <i>Journal of Chromatography A</i> , 2006, 1127, 214-220.	1.8	66
30	Enhanced accumulation of anthocyanin in cultured strawberry cells by repetitive feeding of l-Phenylalanine into the medium. <i>Journal of Bioscience and Bioengineering</i> , 2005, 99, 43-47.	1.1	62
31	Preparation of monodispersed emulsion with large droplets using microchannel emulsification. <i>JAACS, Journal of the American Oil Chemists' Society</i> , 2002, 79, 515-519.	0.8	61
32	Microbial production of cis, cis-muconic acid from benzoic acid. <i>Applied Microbiology and Biotechnology</i> , 1988, 28, 20.	1.7	60
33	Magnetophoresis-Integrated Hydrodynamic Filtration System for Size- and Surface Marker-Based Two-Dimensional Cell Sorting. <i>Analytical Chemistry</i> , 2013, 85, 7666-7673.	3.2	59
34	Effect of intraparticle mass transfer resistance on reactivity of immobilized yeast cells.. <i>Journal of Chemical Engineering of Japan</i> , 1985, 18, 389-393.	0.3	57
35	Key role for transketolase activity in erythritol production by <i>Trichosporonoides megachiliensis</i> SN-G42. <i>Journal of Bioscience and Bioengineering</i> , 2009, 108, 385-390.	1.1	57
36	Observation of nonspherical particle behaviors for continuous shape-based separation using hydrodynamic filtration. <i>Biomicrofluidics</i> , 2011, 5, 24103.	1.2	56

#	ARTICLE	IF	CITATIONS
37	Slanted, asymmetric microfluidic lattices as size-selective sieves for continuous particle/cell sorting. <i>Lab on A Chip</i> , 2017, 17, 304-314.	3.1	54
38	Biosynthesis of Poly(3-hydroxybutyrate-co-3-hydroxyalkanoates) Copolymer from Sugars by Recombinant <i>Ralstonia eutropha</i> Harboring the <i>phaC1</i> and the <i>phaGPs</i> Genes of <i>Pseudomonas</i> sp. 61-3. <i>Biomacromolecules</i> , 2001, 2, 934-939.	2.6	50
39	A microfluidic flow distributor generating stepwise concentrations for high-throughput biochemical processing. <i>Lab on A Chip</i> , 2006, 6, 179.	3.1	50
40	In-channel focusing of flowing microparticles utilizing hydrodynamic filtration. <i>Microfluidics and Nanofluidics</i> , 2009, 6, 571-576.	1.0	49
41	Use of auxin and cytokinin to regulate anthocyanin production and composition in suspension cultures of strawberry cell. <i>Journal of the Science of Food and Agriculture</i> , 1994, 65, 271-276.	1.7	46
42	Patterned hydrogel microfibers prepared using multilayered microfluidic devices for guiding network formation of neural cells. <i>Biofabrication</i> , 2014, 6, 035011.	3.7	46
43	Development of a passive micromixer based on repeated fluid twisting and flattening, and its application to DNA purification. <i>Analytical and Bioanalytical Chemistry</i> , 2005, 383, 776-782.	1.9	45
44	Continuous and precise particle separation by electroosmotic flow control in microfluidic devices. <i>Electrophoresis</i> , 2008, 29, 1423-1430.	1.3	45
45	Cultivation of yeast and plant cells entrapped in the low-viscous liquid-core of an alginate membrane capsule prepared using polyethylene glycol. <i>Journal of Bioscience and Bioengineering</i> , 2004, 97, 111-118.	1.1	43
46	Millisecond treatment of cells using microfluidic devices via two-step carrier-medium exchange. <i>Lab on A Chip</i> , 2008, 8, 772.	3.1	43
47	Characteristics of loofa (<i>Luffa cylindrica</i>) sponge as a carrier for plant cell immobilization. <i>Journal of Bioscience and Bioengineering</i> , 1998, 85, 416-421.	0.9	41
48	High anthocyanin accumulation in the dark by strawberry (<i>Fragaria ananassa</i>) callus. <i>Biotechnology Letters</i> , 1999, 21, 695-699.	1.1	41
49	Microfabricated Polymer Chip for Capillary Gel Electrophoresis. <i>Biotechnology Progress</i> , 2001, 17, 958-962.	1.3	39
50	Development of a perfusable 3D liver cell cultivation system via bundling-up assembly of cell-laden microfibers. <i>Journal of Bioscience and Bioengineering</i> , 2018, 126, 111-118.	1.1	38
51	Hydrodynamic damage of cultured cells of <i>Carthamus tinctorius</i> in a stirred tank reactor. <i>Journal of Chemical Engineering of Japan</i> , 1994, 27, 466-471.	0.3	37
52	Pressure-Driven Sample Injection with Quantitative Liquid Dispensing for On-Chip Electrophoresis. <i>Analytical Sciences</i> , 2004, 20, 483-487.	0.8	37
53	Phenylpropanoid metabolite supports cell aggregate formation in strawberry cell suspension culture. <i>Journal of Bioscience and Bioengineering</i> , 2006, 102, 8-13.	1.1	36
54	Rapid quantification of bacterial cells in potable water using a simplified microfluidic device. <i>Journal of Microbiological Methods</i> , 2007, 68, 643-647.	0.7	36

#	ARTICLE	IF	CITATIONS
55	On-chip fabrication and magnetic force estimation of peapod-like hybrid microfibers using a microfluidic device. <i>Microfluidics and Nanofluidics</i> , 2015, 18, 1177-1187.	1.0	36
56	Fabrication of multilayered vascular tissues using microfluidic agarose hydrogel platforms. <i>Biotechnology Journal</i> , 2016, 11, 1415-1423.	1.8	36
57	Effects of conditioning factor on anthocyanin production in strawberry suspension cultures. <i>Journal of the Science of Food and Agriculture</i> , 1994, 66, 381-388.	1.7	35
58	Microfluidic production of single micrometer-sized hydrogel beads utilizing droplet dissolution in a polar solvent. <i>Biomicrofluidics</i> , 2013, 7, 54120.	1.2	35
59	Mathematical model for analysis of mass transfer for immobilized cells in lactic acid fermentation. <i>Biotechnology Progress</i> , 1995, 11, 558-564.	1.3	34
60	Cloning and Characterization of the Pseudomonas sp. 61-3phaG Gene Involved in Polyhydroxyalkanoate Biosynthesis. <i>Biomacromolecules</i> , 2001, 2, 142-147.	2.6	33
61	Sol-gel based fabrication of hybrid microfluidic devices composed of PDMS and thermoplastic substrates. <i>Sensors and Actuators B: Chemical</i> , 2010, 148, 323-329.	4.0	33
62	Reaction characteristics of an immobilized yeast producing ethanol. <i>Biotechnology and Bioengineering</i> , 1983, 25, 2921-2928.	1.7	32
63	Facile fabrication processes for hydrogel-based microfluidic devices made of natural biopolymers. <i>Biomicrofluidics</i> , 2014, 8, 024115.	1.2	32
64	Induction of apoptosis in HeLa cells with siRNA expression vector targeted against bcl-2. <i>Nucleic Acids Symposium Series</i> , 2002, 2, 251-252.	0.3	31
65	Isolation and Characterization of Polyhydroxyalkanoates Inclusions and Their Associated Proteins in Pseudomonas sp. 61-3. <i>Biomacromolecules</i> , 2002, 3, 787-792.	2.6	31
66	Polymer surface morphology control by reactive ion etching for microfluidic devices. <i>Sensors and Actuators B: Chemical</i> , 2008, 132, 637-643.	4.0	31
67	Magnetic assembly of microfluidic spun alginate microfibers for fabricating three-dimensional cell-laden hydrogel constructs. <i>Microfluidics and Nanofluidics</i> , 2015, 19, 1169-1180.	1.0	31
68	Intermittent light irradiation with second- or hour-scale periods controls anthocyanin production by strawberry cells. <i>Enzyme and Microbial Technology</i> , 2000, 26, 621-629.	1.6	29
69	Continuous production of taxol by cell culture of taxus cuspidata. <i>Journal of Chemical Engineering of Japan</i> , 1995, 28, 488-490.	0.3	27
70	Formation of biocompatible reversed micellar systems using phospholipids. <i>Biochemical Engineering Journal</i> , 2000, 6, 193-199.	1.8	27
71	Prediction of Droplet Diameter for Microchannel Emulsification: A Prediction Model for Complicated Microchannel Geometries. <i>Industrial & Engineering Chemistry Research</i> , 2004, 43, 8233-8238.	1.8	27
72	Separation of cultured strawberry cells producing anthocyanins in aqueous two-phase system. <i>Journal of Bioscience and Bioengineering</i> , 2005, 100, 449-454.	1.1	26

#	ARTICLE	IF	CITATIONS
73	Generation of uniform-size droplets by multistep hydrodynamic droplet division in microfluidic circuits. <i>Microfluidics and Nanofluidics</i> , 2011, 11, 601-610.	1.0	26
74	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.	3.1	26
75	Metabolic responses of plant cell culture to hydrodynamic stress. <i>Canadian Journal of Chemical Engineering</i> , 1998, 76, 267-275.	0.9	25
76	Changes of anthocyanin composition by conditioned medium and cell inoculum size using strawberry suspension culture. <i>Biotechnology Letters</i> , 1996, 18, 1149-1154.	1.1	24
77	Evaluation of mass-transfer characteristics in alginate-membrane liquid-core capsules prepared using polyethylene glycol. <i>Journal of Bioscience and Bioengineering</i> , 2004, 98, 114-121.	1.1	24
78	Effect of intraparticle diffusion on reaction by immobilized growing yeast.. <i>Journal of Chemical Engineering of Japan</i> , 1985, 18, 461-463.	0.3	22
79	Enhanced Anthocyanin Methylation by Growth Limitation in Strawberry Suspension Culture. <i>Enzyme and Microbial Technology</i> , 1998, 22, 404-408.	1.6	22
80	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.	2.6	22
81	On-chip fabrication of magnetic alginate hydrogel microfibers by multilayered pneumatic microvalves. <i>Microfluidics and Nanofluidics</i> , 2014, 17, 457-468.	1.0	21
82	Formation of Monodisperse Hierarchical Lipid Particles Utilizing Microfluidic Droplets in a Nonequilibrium State. <i>Langmuir</i> , 2015, 31, 2334-2341.	1.6	21
83	Analysis of pigment accumulation heterogeneity in plant cell population by image-processing system. , 2000, 67, 493-497.		20
84	Small-Angle X-Ray Scattering Analysis of Stearic Acid Modified Lipase. <i>Bioscience, Biotechnology and Biochemistry</i> , 2001, 65, 1003-1006.	0.6	20
85	Blood cell classification utilizing hydrodynamic filtration. <i>Electronics and Communications in Japan</i> , 2011, 94, 1-6.	0.3	20
86	One-step synthesis of spherical/nonspherical polymeric microparticles using non-equilibrium microfluidic droplets. <i>RSC Advances</i> , 2014, 4, 13557.	1.7	20
87	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.	3.1	20
88	Anthocyanin synthesis, growth and nutrient uptake in suspension cultures of strawberry cells. <i>Journal of Bioscience and Bioengineering</i> , 1998, 86, 72-78.	0.9	19
89	Quantitative determination of cultured strawberry-cell heterogeneity by image analysis: effects of medium modification on anthocyanin accumulation. <i>Biochemical Engineering Journal</i> , 2000, 5, 201-207.	1.8	19
90	Can lipases hydrolyze a peptide bond?. <i>Enzyme and Microbial Technology</i> , 2003, 32, 655-657.	1.6	19

#	ARTICLE	IF	CITATIONS
91	Integration of gene amplification and capillary gel electrophoresis on a polydimethylsiloxane-glass hybrid microchip. , 2001, 22, 328.		19
92	Hydrogen Production from Glucose by Anaerobes. Biotechnology Progress, 2005, 21, 1786-1788.	1.3	18
93	Micropatterning of Hydrogels on Locally Hydrophilized Regions on PDMS by Stepwise Solution Dipping and in Situ Gelation. Langmuir, 2012, 28, 14073-14080.	1.6	17
94	Microfluidic counterflow centrifugal elutriation system for sedimentation-based cell separation. Microfluidics and Nanofluidics, 2013, 14, 1049-1057.	1.0	17
95	Low-pressure plasma-etching of bulk polymer materials using gas mixture of CF ₄ and O ₂ . AIP Advances, 2013, 3, 112105.	0.6	17
96	Direct Observation of Splitting in Oil-In-Water-In-Oil Emulsion Droplets via a Microchannel Mimicking Membrane Pores. Langmuir, 2017, 33, 14087-14092.	1.6	17
97	Multiphase Microfluidic Processes to Produce Alginate-Based Microparticles and Fibers. Journal of Chemical Engineering of Japan, 2018, 51, 318-330.	0.3	17
98	Glucocorticoid-induced expression of a foreign gene by the GVG system in transformed tobacco BY-2 cells. Biochemical Engineering Journal, 2000, 6, 185-191.	1.8	16
99	Isolation of cell nuclei in microchannels by short-term chemical treatment via two-step carrier medium exchange. Biomedical Microdevices, 2012, 14, 751-757.	1.4	16
100	Thermally imprinted microcone structure-assisted lateral-flow immunoassay platforms for detecting disease marker proteins. Analyst, The, 2019, 144, 1519-1526.	1.7	16
101	Formation and Characterization of Reversed Micelles Composed of Phospholipids and Fatty Acids. Journal of Colloid and Interface Science, 2001, 240, 566-572.	5.0	15
102	Increased alkaloid production in a suspension culture of Coffea arabica cells using an adsorption column for product removal. Journal of Bioscience and Bioengineering, 1994, 78, 117-119.	0.9	13
103	Control-free Air Vent System for Ultra-low Volume Sample Injection on a Microfabricated Device. Analytical Sciences, 2005, 21, 465-468.	0.8	13
104	One-Step Formation of Microporous Hydrogel Sponges Encapsulating Living Cells by Utilizing Bicontinuous Dispersion of Aqueous Polymer Solutions. ACS Applied Bio Materials, 2019, 2, 2237-2245.	2.3	13
105	Effect of hydrocarbon-water interfaces on synthetic and hydrolytic activities of lipases. Journal of Bioscience and Bioengineering, 2001, 92, 242-247.	1.1	12
106	A droplet-based microfluidic process to produce yarn-ball-shaped hydrogel microbeads. RSC Advances, 2013, 3, 12299.	1.7	12
107	Multiple diagnostic analyses by enzymatic and chemical reaction on a PDMS microchip. , 0, , .		11
108	Cell Growth and Reaction Characteristics of Immobilized Zymomonas mobilis. Annals of the New York Academy of Sciences, 1990, 613, 290-300.	1.8	10

#	ARTICLE	IF	CITATIONS
109	Influence of light irradiation rates and irradiation modes on caffeine production and cell growth in suspension culture of <i>Coffea arabica</i> cells.. Journal of Chemical Engineering of Japan, 1991, 24, 783-788.	0.3	10
110	Kinetic analysis of cell growth and vitamin e production in plant cell culture of <i>carthamus tinctorius</i> using a structured model. Biochemical Engineering Journal, 1998, 1, 233-242.	1.8	10
111	Patterning Reactive Microdomains inside Polydimethylsiloxane Microchannels by Trapping and Melting Functional Polymer Particles. Journal of the American Chemical Society, 2008, 130, 14044-14045.	6.6	10
112	Fluidic shear-assisted formation of actuating multilamellar lipid tubes using microfabricated nozzle array device. Chemical Communications, 2011, 47, 8433.	2.2	10
113	Enhancement of osteoblastic differentiation in alginate gel beads with bioactive octacalcium phosphate particles. Biomedical Materials (Bristol), 2015, 10, 065019.	1.7	10
114	Microfluidic System Enabling Multistep Tuning of Extraction Time Periods for Kinetic Analysis of Droplet-Based Liquid-Liquid Extraction. Analytical Chemistry, 2016, 88, 5637-5643.	3.2	10
115	Hydrodynamic Microparticle Separation Mechanism Using Three-Dimensional Flow Profiles in Dual-Depth and Asymmetric Lattice-Shaped Microchannel Networks. Micromachines, 2019, 10, 425.	1.4	10
116	Enhanced Immunoabsorption on Imprinted Polymeric Microstructures with Nanoengineered Surface Topography for Lateral Flow Immunoassay Systems. Analytical Chemistry, 2019, 91, 13377-13382.	3.2	10
117	PDMS microstencil plate-supported fabrication of ultra-thin, condensed ECM membranes for separated cell coculture on both surfaces. Sensors and Actuators B: Chemical, 2019, 287, 486-495.	4.0	10
118	Effect of Co-immobilization of Microporous Particles on the Overall Reaction Rate of Immobilized Cell Biocatalysts.. Journal of Chemical Engineering of Japan, 1993, 26, 662-668.	0.3	9
119	Characteristics of immobilized <i>Lactobacillus delbrueckii</i> in a liquid-solid fluidized bed bioreactor for lactic acid production.. Journal of Chemical Engineering of Japan, 1995, 28, 198-203.	0.3	9
120	Analysis of pigmentation in individual cultured plant cells using an image processing system. Biotechnology Letters, 2000, 22, 977-981.	1.1	9
121	Sacrificial Alginate-Assisted Microfluidic Engineering of Cell-Supportive Protein Microfibers for Hydrogel-Based Cell Encapsulation. ACS Omega, 2020, 5, 21641-21650.	1.6	9
122	Formation of Cell Aggregates Using Microfabricated Hydrogel Chambers for Assembly into Larger Tissues. Journal of Robotics and Mechatronics, 2013, 25, 682-689.	0.5	9
123	Interesterification and hydrolysis catalyzed by fatty acid-modified lipases. European Journal of Lipid Science and Technology, 2002, 104, 255-261.	1.0	8
124	Polyanion-induced, microfluidic engineering of fragmented collagen microfibers for reconstituting extracellular environments of 3D hepatocyte culture. Materials Science and Engineering C, 2021, 129, 112417.	3.8	8
125	Novel Liquid Injection Method with Wedge-Shaped Microchannel on a PDMS Microchip System for Diagnostic Analyses. , 2001, , 1204-1207.		8
126	Factors Affecting Vitamin E Production Using Plant Cell Culture of <i>Carthamus Tinctorius</i> .. Journal of Chemical Engineering of Japan, 1993, 26, 470-474.	0.3	7

#	ARTICLE	IF	CITATIONS
127	Mass transfer behavior in lactic acid fermentation using immobilized <i>Lactobacillus delbrueckii</i> . Journal of Chemical Engineering of Japan, 1995, 28, 480-482.	0.3	7
128	Structural study of lipase modified with fatty acids. Biochemical Engineering Journal, 2001, 9, 185-191.	1.8	7
129	Plant Cell Immobilization in Loofa Sponge Using Two-Way Bubble Circular System.. Journal of Chemical Engineering of Japan, 1999, 32, 8-14.	0.3	7
130	Assembly of carbon nanotubes into microparticles with tunable morphologies using droplets in a non-equilibrium state. RSC Advances, 2017, 7, 17773-17780.	1.7	6
131	PDMS (polydimethylsiloxane)-glass hybrid microchip for gene amplification. , 0, , .		5
132	Screening for transgenic plant cells that highly express a target gene from genetically mixed cells. Biochemical Engineering Journal, 2002, 10, 175-182.	1.8	5
133	Fabrication of vascular tissue models by assembling multiple cell types inside hydrogel microchannels. , 2012, , .		5
134	Chromatographic Separation of Proteins on A Pdms-Polymer Chip by Pressure Flow. , 2001, , 48-50.		5
135	Automated Construction System for 3D Lattice Structure Based on Alginate Gel Fiber Containing Living Cells. Journal of Robotics and Mechatronics, 2013, 25, 665-672.	0.5	5
136	Influence of Conditioned Medium on Cyanidin and Peonidin Synthesis.. Journal of Chemical Engineering of Japan, 1997, 30, 951-953.	0.3	4
137	A new method for continuous sorting of cells/particles using lattice-shaped dual-depth microchannels. , 2015, , .		4
138	Formation of pressurizable hydrogel-based vascular tissue models by selective gelation in composite PDMS channels. RSC Advances, 2019, 9, 9136-9144.	1.7	4
139	Monodispersed Droplet Formation Caused by Interfacial Tension from Microfabricated Channel Array. , 2001, , 252-261.		4
140	Light Effect to Promote Secondary Metabolite Production of Plant Cell Culture. , 1994, , 103-133.		4
141	Effect of Light on Caffeine Production by Plant Cells of <i>Coffea arabica</i> . Annals of the New York Academy of Sciences, 1990, 613, 538-541.	1.8	3
142	Stimulatory Effect of an Indirectly Attached RNA Helicase-Recruiting Sequence on the Suppression of Gene Expression by Antisense Oligonucleotides. Oligonucleotides, 2003, 13, 9-17.	4.4	3
143	Editorial: Asia Pacific Biochemical engineering. Biotechnology Journal, 2010, 5, 436-437.	1.8	3
144	Separation and Collection of a Specified DNA Fragment by Chip-Based CE System. , 2001, , 113-114.		3

#	ARTICLE	IF	CITATIONS
163	Shape control of cell-embedding hydrogel microstructures utilizing non-equilibrium aqueous two-phase systems. , 2014, , .		1
164	One-step microfluidic spinning of collagen microfibers and their application to cell cultivation. , 2015, , .		1
165	Control of invasion direction of cancer cells using hierarchically patterned hydrogel sheets. , 2017, , .		1
166	Microengineering of Collagen Hydrogels Integrated into Microfluidic Devices for Perfusion Culture of Mammalian Cells. MATEC Web of Conferences, 2021, 333, 07006.	0.1	1
167	Preparation of Microporous Hydrogel Sponges for 3D Perfusion Culture of Mammalian Cells. MATEC Web of Conferences, 2021, 333, 07004.	0.1	1
168	Development of Electrophoretic Analysis System Using Multiple Channel Microchips. , 2002, , 664-666.		1
169	ãfžã,ã,ãfæµè.ã,ç'ã,ãžç'ãã®ã^†çš. Shinku/Journal of the Vacuum Society of Japan, 2006, 49, 404-408.	0.2	1
170	Process simplification and structure design of parallelized microslit isolator for physical property-based capture of tumor cells. Analyst, The, 2022, 147, 1622-1630.	1.7	1
171	Formation of monodispersed microspheres from microfabricated channel array. , 0, , .		0
172	Rapid enumeration of bacterial cells in drinking water using a microfluidic device. , 2006, , .		0
173	Size-dependent sorting of corneal limbal epithelial cell with microfluidic chip. , 2011, , .		0
174	Formation of self-actuating lipid tubes using microfabricated picoliter nozzle array. , 2011, , .		0
175	Fabrication of Complex Hydrogel Materials by Utilizing Microfluidics and Micromolding. Materials Research Society Symposia Proceedings, 2012, 1415, 157.	0.1	0
176	Fluidic preparation of patterned hydrogel fibers using micronozzle-array devices for neural cell guidance. , 2012, , .		0
177	Microfabricated complex hydrogel fibers for quantitative evaluation of cancer cell invasion in in vivo tissue-like environments. , 2013, , .		0
178	Cell encapsulation into alginate/octacalcium phosphate hydrogel beads for bone regenerative therapy. , 2013, , .		0
179	Size dependent cell sorting systems and characteristic of cell groups. , 2013, , .		0
180	Assembly techniques for artificial small diameter blood vessel structures. , 2013, , .		0

#	ARTICLE	IF	CITATIONS
181	Controlled patterning of magnetic hydrogel microfibers under magnetic tweezers. , 2013, , .		0
182	Preparation and characterization of magnetic PEGDA beads for enhanced construction of hydrogel assembly. , 2013, , .		0
183	In vitro assessment of osteoblastic differentiation of encapsulated stromal cells in alginate/octacalcium phosphate. , 2014, , .		0
184	Asymmetric lattice-shaped microchannel structures for continuous size-dependent cell sorting. , 2014, , .		0
185	High-Throughput Cell Assembly Featuring Heterogeneous Hydrogels Produced by Using Microfluidic Devices. , 2015, , 129-150.		0
186	Microfluidics-based wet spinning of protein microfibers as solid scaffolds for 3D cell cultivation. , 2016, , .		0
187	Microstructure Formation on Polytetrafluoroethylene (PTFE) and Perfluoroalkoxy (PFA) Bulk Plates by a Magnetron Enhanced Reactive Ion Etching System. Journal of the Vacuum Society of Japan, 2017, 60, 176-181.	0.3	0
188	Diagnostic Analyses by Biochemical Reactions and Separations on a Chip. , 2001, , 542-551.		0
189	Microfabrication of Transparent Thermoplastic Resin Plates by Dry Etching. Journal of the Vacuum Society of Japan, 2009, 52, 138-140.	0.3	0
190	Development of Sheet-shaped/Tubular Biological Materials Using Microfluidics. Membrane, 2015, 40, 137-142.	0.0	0