# Minoru Seki

List of Publications by Year
in descending order



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|---|---|---|---|
| 192 papers | 7,263 citations | 61984 43 h-index | 62596 80 g-index |
| 193 all docs | 193 docs citations | 193 times ranked | 5964 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Pinched Flow Fractionation:Â Continuous Size Separation of Particles Utilizing a Laminar Flow Profile in a Pinched Microchannel. Analytical Chemistry, 2004, 76, 5465-5471. | 6.5 | 634 |
| 2 | Hydrodynamic filtration for on-chip particle concentration and classification utilizing microfluidics. Lab on A Chip, 2005, 5, 1233. | 6.0 | 448 |
| 3 | Interfacial Tension Driven Monodispersed Droplet Formation from Microfabricated Channel Array. Langmuir, 2001, 17, 5562-5566. | 3.5 | 417 |
| 4 | Continuous particle separation in a microchannel having asymmetrically arranged multiple branches. Lab on A Chip, 2005, 5, 778. | 6.0 | 297 |
| 5 | Controlled formation of heterotypic hepatic micro-organoids in anisotropic hydrogel microfibers for long-term preservation of liver-specific functions. Biomaterials, 2012, 33, 8304-8315. | 11.4 | 227 |
| 6 | Preparation of Monodispersed Solid Lipid Microspheres Using a Microchannel Emulsification Technique. Journal of Colloid and Interface Science, 2000, 227, 95-103. | 9.4 | 204 |
| 7 | Characterization of Spontaneous Transformation-Based Droplet Formation during Microchannel Emulsification. Journal of Physical Chemistry B, 2002, 106, 9405-9409. | 2.6 | 186 |
| 8 | Integration of gene amplification and capillary gel electrophoresis on a polydimethylsiloxane-glass hybrid microchip. Electrophoresis, 2001, 22, 328-333. | 2.4 | 166 |
| 9 | Microfluidic Particle Sorter Employing Flow Splitting and Recombining. Analytical Chemistry, 2006, 78, 1357-1362. | 6.5 | 165 |
| 10 | Microfluidic synthesis of chemically and physically anisotropic hydrogel microfibers for guided cell growth and networking. Soft Matter, 2012, 8, 3122. | 2.7 | 158 |
| 11 | Effect of Channel Structure on Microchannel Emulsification. Langmuir, 2002, 18, 5708-5712. | 3.5 | 145 |
| 12 | Prediction of Droplet Diameter for Microchannel Emulsification. Langmuir, 2002, 18, 3854-3859. | 3.5 | 134 |
| 13 | Microfluidic devices for size-dependent separation of liver cells. Biomedical Microdevices, 2007, 9, 637-645. | 2.8 | 110 |
| 14 | Continuous and Size-Dependent Sorting of Emulsion Droplets Using Hydrodynamics in Pinched Microchannels. Langmuir, 2008, 24, 4405-4410. | 3.5 | 100 |
| 15 | Preparation characteristics of water-in-oil-in-water multiple emulsions using microchannel emulsification. Journal of Colloid and Interface Science, 2004, 270, 221-228. | 9.4 | 99 |
| 16 | Synthesis of Polymeric Microspheres with Narrow Size Distributions Employing Microchannel Emulsification. Macromolecular Rapid Communications, 2001, 22, 773-778. | 3.9 | 97 |
| 17 | Sedimentation pinched-flow fractionation for size- and density-based particle sorting in microchannels. Microfluidics and Nanofluidics, 2011, 11, 105-110. | 2.2 | 90 |
| 18 | Hydrodynamic control of droplet division in bifurcating microchannel and its application to particle synthesis. Journal of Colloid and Interface Science, 2008, 321, 401-407. | 9.4 | 88 |

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| 19 | Continuous cell partitioning using an aqueous two-phase flow system in microfluidic devices. Biotechnology and Bioengineering, 2004, 88, 489-494. | 3.3 | 85 |
| 20 | Nanoliter-Sized Liquid Dispenser Array for Multiple Biochemical Analysis in Microfluidic Devices. Analytical Chemistry, 2004, 76, 895-899. | 6.5 | 77 |
| 21 | Taxol (paclitaxel) production using free and immobilized cells ofTaxus cuspidata. , 1997, 53, 214-219. | | 75 |
| 22 | Preparation Characteristics of Monodispersed Water-in-Oil Emulsions Using Microchannel Emulsification.. Journal of Chemical Engineering of Japan, 2001, 34, 757-765. | 0.6 | 74 |
| 23 | Preparation of Monodispersed Polymeric Microspheres over 50 Î¼m Employing Microchannel Emulsification. Industrial & Engineering Chemistry Research, 2002, 41, 4043-4047. | 3.7 | 71 |
| 24 | Cell-sized condensed collagen microparticles for preparing microengineered composite spheroids of primary hepatocytes. Lab on A Chip, 2015, 15, 3941-3951. | 6.0 | 71 |
| 25 | Oil-water interfacial activation of lipase for interesterification of triglyceride and fatty acid. JAOCS, Journal of the American Oil Chemists' Society, 2000, 77, 1121. | 1.9 | 69 |
| 26 | Effect of interfacial tension on the dynamic behavior of droplet formation during microchannel emulsification. Journal of Colloid and Interface Science, 2004, 269, 178-185. | 9.4 | 69 |
| 27 | Effect of temperature and its shift on growth and anthocyanin production in suspension cultures of strawberry cells. Plant Science, 1997, 127, 207-214. | 3.6 | 68 |
| 28 | Preparation of stripe-patterned heterogeneous hydrogel sheets using microfluidic devices for high-density coculture of hepatocytes and fibroblasts. Journal of Bioscience and Bioengineering, 2013, 116, 761-767. | 2.2 | 68 |
| 29 | Continuous separation of particles using a microfluidic device equipped with flow rate control valves. Journal of Chromatography A, 2006, 1127, 214-220. | 3.7 | 66 |
| 30 | Enhanced accumulation of anthocyanin in cultured strawberry cells by repetitive feeding of l-Phenylalanine into the medium. Journal of Bioscience and Bioengineering, 2005, 99, 43-47. | 2.2 | 62 |
| 31 | Preparation of monodispersed emulsion with large droplets using microchannel emulsification. JAOCS, Journal of the American Oil Chemists' Society, 2002, 79, 515-519. | 1.9 | 61 |
| 32 | Microbial production of cis, cis-muconic acid from benzoic acid. Applied Microbiology and Biotechnology, 1988, 28, 20. | 3.6 | 60 |
| 33 | Magnetophoresis-Integrated Hydrodynamic Filtration System for Size- and Surface Marker-Based Two-Dimensional Cell Sorting. Analytical Chemistry, 2013, 85, 7666-7673. | 6.5 | 59 |
| 34 | Effect of intraparticle mass transfer resistance on reactivity of immobilized yeast cells.. Journal of Chemical Engineering of Japan, 1985, 18, 389-393. | 0.6 | 57 |
| 35 | Key role for transketolase activity in erythritol production by Trichosporonoides megachiliensis SN-G42. Journal of Bioscience and Bioengineering, 2009, 108, 385-390. | 2.2 | 57 |
| 36 | Observation of nonspherical particle behaviors for continuous shape-based separation using hydrodynamic filtration. Biomicrofluidics, 2011, 5, 24103. | 2.4 | 56 |

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| 37 | Slanted, asymmetric microfluidic lattices as size-selective sieves for continuous particle/cell sorting. Lab on A Chip, 2017, 17, 304-314. | 6.0 | 54 |
| 38 | Biosynthesis of Poly(3-hydroxybutyrate-co-3-hydroxyalkanoates) Copolymer from Sugars by RecombinantRalstoniaeutrophaHarboring thephaC1Psand thephaGPsGenes ofPseudomonassp. 61-3. Biomacromolecules, 2001, 2, 934-939. | 5.4 | 50 |
| 39 | A microfluidic flow distributor generating stepwise concentrations for high-throughput biochemical processing. Lab on A Chip, 2006, 6, 179. | 6.0 | 50 |
| 40 | In-channel focusing of flowing microparticles utilizing hydrodynamic filtration. Microfluidics and Nanofluidics, 2009, 6, 571-576. | 2.2 | 49 |
| 41 | Use of auxin and cytokinin to regulate anthocyanin production and composition in suspension cultures of strawberry cell. Journal of the Science of Food and Agriculture, 1994, 65, 271-276. | 3.5 | 46 |
| 42 | Patterned hydrogel microfibers prepared using multilayered microfluidic devices for guiding network formation of neural cells. Biofabrication, 2014, 6, 035011. | 7.1 | 46 |
| 43 | Development of a passive micromixer based on repeated fluid twisting and flattening, and its application to DNA purification. Analytical and Bioanalytical Chemistry, 2005, 383, 776-782. | 3.7 | 45 |
| 44 | Continuous and precise particle separation by electroosmotic flow control in microfluidic devices. Electrophoresis, 2008, 29, 1423-1430. | 2.4 | 45 |
| 45 | Cultivation of yeast and plant cells entrapped in the low-viscous liquid-core of an alginate membrane capsule prepared using polyethylene glycol. Journal of Bioscience and Bioengineering, 2004, 97, 111-118. | 2.2 | 43 |
| 46 | Millisecond treatment of cells using microfluidic devices via two-step carrier-medium exchange. Lab on A Chip, 2008, 8, 772. | 6.0 | 43 |
| 47 | Characteristics of loofa (Luffa cylindrica) sponge as a carrier for plant cell immobilization. Journal of Bioscience and Bioengineering, 1998, 85, 416-421. | 0.9 | 41 |
| 48 | High anthocyanin accumulation in the dark by strawberry (Fragaria ananassa) callus. Biotechnology Letters, 1999, 21, 695-699. | 2.2 | 41 |
| 49 | Microfabricated Polymer Chip for Capillary Gel Electrophoresis. Biotechnology Progress, 2001, 17, 958-962. | 2.6 | 39 |
| 50 | Development of a perfusable 3D liver cell cultivation system via bundling-up assembly of cell-laden microfibers. Journal of Bioscience and Bioengineering, 2018, 126, 111-118. | 2.2 | 38 |
| 51 | Hydrodynamic damage of cultured cells of Carthamus tinctorius in a stirred tank reactor.. Journal of Chemical Engineering of Japan, 1994, 27, 466-471. | 0.6 | 37 |
| 52 | Pressure-Driven Sample Injection with Quantitative Liquid Dispensing for On-Chip Electrophoresis. Analytical Sciences, 2004, 20, 483-487. | 1.6 | 37 |
| 53 | Phenylpropanoid metabolite supports cell aggregate formation in strawberry cell suspension culture. Journal of Bioscience and Bioengineering, 2006, 102, 8-13. | 2.2 | 36 |
| 54 | Rapid quantification of bacterial cells in potable water using a simplified microfluidic device. Journal of Microbiological Methods, 2007, 68, 643-647. | 1.6 | 36 |

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| 55 | On-chip fabrication and magnetic force estimation of peapod-like hybrid microfibers using a microfluidic device. Microfluidics and Nanofluidics, 2015, 18, 1177-1187. | 2.2 | 36 |
| 56 | Fabrication of multilayered vascular tissues using microfluidic agarose hydrogel platforms. Biotechnology Journal, 2016, 11, 1415-1423. | 3.5 | 36 |
| 57 | Effects of conditioning factor on anthocyanin production in strawberry suspension cultures. Journal of the Science of Food and Agriculture, 1994, 66, 381-388. | 3.5 | 35 |
| 58 | Microfluidic production of single micrometer-sized hydrogel beads utilizing droplet dissolution in a polar solvent. Biomicrofluidics, 2013, 7, 54120. | 2.4 | 35 |
| 59 | Mathematical model for analysis of mass transfer for immobilized cells in lactic acid fermentation. Biotechnology Progress, 1995, 11, 558-564. | 2.6 | 34 |
| 60 | Cloning and Characterization of thePseudomonassp. 61-3phaGGene Involved in Polyhydroxyalkanoate Biosynthesis. Biomacromolecules, 2001, 2, 142-147. | 5.4 | 33 |
| 61 | Solâ€“gel based fabrication of hybrid microfluidic devices composed of PDMS and thermoplastic substrates. Sensors and Actuators B: Chemical, 2010, 148, 323-329. | 7.8 | 33 |
| 62 | Reaction characteristics of an immobilized yeast producing ethanol. Biotechnology and Bioengineering, 1983, 25, 2921-2928. | 3.3 | 32 |
| 63 | Facile fabrication processes for hydrogel-based microfluidic devices made of natural biopolymers. Biomicrofluidics, 2014, 8, 024115. | 2.4 | 32 |
| 64 | Induction of apoptosis in HeLa cells with siRNA expression vector targeted against bcl-2. Nucleic Acids Symposium Series, 2002, 2, 251-252. | 0.3 | 31 |
| 65 | Isolation and Characterization of Polyhydroxyalkanoates Inclusions and Their Associated Proteins inPseudomonassp. 61-3. Biomacromolecules, 2002, 3, 787-792. | 5.4 | 31 |
| 66 | Polymer surface morphology control by reactive ion etching for microfluidic devices. Sensors and Actuators B: Chemical, 2008, 132, 637-643. | 7.8 | 31 |
| 67 | Magnetic assembly of microfluidic spun alginate microfibers for fabricating three-dimensional cell-laden hydrogel constructs. Microfluidics and Nanofluidics, 2015, 19, 1169-1180. | 2.2 | 31 |
| 68 | Intermittent light irradiation with second- or hour-scale periods controls anthocyanin production by strawberry cellsâ†. Enzyme and Microbial Technology, 2000, 26, 621-629. | 3.2 | 29 |
| 69 | Continuous production of taxol by cell culture of taxus cuspidata.. Journal of Chemical Engineering of Japan, 1995, 28, 488-490. | 0.6 | 27 |
| 70 | Formation of biocompatible reversed micellar systems using phospholipids. Biochemical Engineering Journal, 2000, 6, 193-199. | 3.6 | 27 |
| 71 | Prediction of Droplet Diameter for Microchannel Emulsification:Â Prediction Model for Complicated Microchannel Geometries. Industrial & Engineering Chemistry Research, 2004, 43, 8233-8238. | 3.7 | 27 |
| 72 | Separation of cultured strawberry cells producing anthocyanins in aqueous two-phase system. Journal of Bioscience and Bioengineering, 2005, 100, 449-454. | 2.2 | 26 |

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| 73 | Generation of uniform-size droplets by multistep hydrodynamic droplet division in microfluidic circuits. Microfluidics and Nanofluidics, 2011, 11, 601-610. | 2.2 | 26 |
| 74 | Micropassage-embedding composite hydrogel fibers enable quantitative evaluation of cancer cell invasion under 3D coculture conditions. Lab on A Chip, 2018, 18, 1378-1387. | 6.0 | 26 |
| 75 | Metabolic responses of plant cell culture to hydrodynamic stress. Canadian Journal of Chemical Engineering, 1998, 76, 267-275. | 1.7 | 25 |
| 76 | Changes of anthocyanin composition by conditioned medium and cell inoculum size using strawberry suspension culture. Biotechnology Letters, 1996, 18, 1149-1154. | 2.2 | 24 |
| 77 | Evaluation of mass-transfer characteristics in alginate-membrane liquid-core capsules prepared using polyethylene glycol. Journal of Bioscience and Bioengineering, 2004, 98, 114-121. | 2.2 | 24 |
| 78 | Effect of intraparticle diffusion on reaction by immobilized growing yeast.. Journal of Chemical Engineering of Japan, 1985, 18, 461-463. | 0.6 | 22 |
| 79 | Enhanced Anthocyanin Methylation by Growth Limitation in Strawberry Suspension Culture. Enzyme and Microbial Technology, 1998, 22, 404-408. | 3.2 | 22 |
| 80 | Collagen Microparticle-Mediated 3D Cell Organization: A Facile Route to Bottom-up Engineering of Thick and Porous Tissues. ACS Biomaterials Science and Engineering, 2017, 3, 2144-2154. | 5.2 | 22 |
| 81 | On-chip fabrication of magnetic alginate hydrogel microfibers by multilayered pneumatic microvalves. Microfluidics and Nanofluidics, 2014, 17, 457-468. | 2.2 | 21 |
| 82 | Formation of Monodisperse Hierarchical Lipid Particles Utilizing Microfluidic Droplets in a Nonequilibrium State. Langmuir, 2015, 31, 2334-2341. | 3.5 | 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. Bioscience, Biotechnology and Biochemistry, 2001, 65, 1003-1006. | 1.3 | 20 |
| 85 | Blood cell classification utilizing hydrodynamic filtration. Electronics and Communications in Japan, 2011, 94, 1-6. | 0.5 | 20 |
| 86 | One-step synthesis of spherical/nonspherical polymeric microparticles using non-equilibrium microfluidic droplets. RSC Advances, 2014, 4, 13557. | 3.6 | 20 |
| 87 | A numbering-up strategy of hydrodynamic microfluidic filters for continuous-flow high-throughput cell sorting. Lab on A Chip, 2019, 19, 1828-1837. | 6.0 | 20 |
| 88 | Anthocyanin synthesis, growth and nutrient uptake in suspension cultures of strawberry cells. Journal of Bioscience and Bioengineering, 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. Biochemical Engineering Journal, 2000, 5, 201-207. | 3.6 | 19 |
| 90 | Can lipases hydrolyze a peptide bond?. Enzyme and Microbial Technology, 2003, 32, 655-657. | 3.2 | 19 |

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| 91 | Integration of gene amplification and capillary gel electrophoresis on a polydimethylsiloxane-glass hybrid microchip. Electrophoresis, 2001, 22, 328-333. | 2.4 | 19 |
| 92 | Hydrogen Production from Glucose by Anaerobes. Biotechnology Progress, 2005, 21, 1786-1788. | 2.6 | 18 |
| 93 | Micropatterning of Hydrogels on Locally Hydrophilized Regions on PDMS by Stepwise Solution Dipping and in Situ Gelation. Langmuir, 2012, 28, 14073-14080. | 3.5 | 17 |
| 94 | Microfluidic counterflow centrifugal elutriation system for sedimentation-based cell separation. Microfluidics and Nanofluidics, 2013, 14, 1049-1057. | 2.2 | 17 |
| 95 | Low-pressure plasma-etching of bulk polymer materials using gas mixture of CF4 and O2. AIP Advances, 2013, 3, 112105. | 1.3 | 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. | 3.5 | 17 |
| 97 | Multiphase Microfluidic Processes to Produce Alginate-Based Microparticles and Fibers. Journal of Chemical Engineering of Japan, 2018, 51, 318-330. | 0.6 | 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. | 3.6 | 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. | 2.8 | 16 |
| 100 | Thermally imprinted microcone structure-assisted lateral-flow immunoassay platforms for detecting disease marker proteins. Analyst, The, 2019, 144, 1519-1526. | 3.5 | 16 |
| 101 | Formation and Characterization of Reversed Micelles Composed of Phospholipids and Fatty Acids. Journal of Colloid and Interface Science, 2001, 240, 566-572. | 9.4 | 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. | 1.6 | 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. | 4.6 | 13 |
| 105 | Effect of hydrocarbon-water interfaces on synthetic and hydrolytic activities of lipases. Journal of Bioscience and Bioengineering, 2001, 92, 242-247. | 2.2 | 12 |
| 106 | A droplet-based microfluidic process to produce yarn-ball-shaped hydrogel microbeads. RSC Advances, 2013, 3, 12299. | 3.6 | 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. | 3.8 | 10 |

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| 109 | Influence of light irradiation rates and irradiation modes on caffeine production and cell growth in suspension culture of Coffea arabica cells.. Journal of Chemical Engineering of Japan, 1991, 24, 783-788. | 0.6 | 10 |
| 110 | Kinetic analysis of cell growth and vitamin e production in plant cell culture of carthamus tinctorius using a structured model. Biochemical Engineering Journal, 1998, 1, 233-242. | 3.6 | 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. | 13.7 | 10 |
| 112 | Fluidic shear-assisted formation of actuating multilamellar lipid tubes using microfabricated nozzle array device. Chemical Communications, 2011, 47, 8433. | 4.1 | 10 |
| 113 | Enhancement of osteoblastic differentiation in alginate gel beads with bioactive octacalcium phosphate particles. Biomedical Materials (Bristol), 2015, 10, 065019. | 3.3 | 10 |
| 114 | Microfluidic System Enabling Multistep Tuning of Extraction Time Periods for Kinetic Analysis of Droplet-Based Liquidâ€“Liquid Extraction. Analytical Chemistry, 2016, 88, 5637-5643. | 6.5 | 10 |
| 115 | Hydrodynamic Microparticle Separation Mechanism Using Three-Dimensional Flow Profiles in Dual-Depth and Asymmetric Lattice-Shaped Microchannel Networks. Micromachines, 2019, 10, 425. | 2.9 | 10 |
| 116 | Enhanced Immunoadsorption on Imprinted Polymeric Microstructures with Nanoengineered Surface Topography for Lateral Flow Immunoassay Systems. Analytical Chemistry, 2019, 91, 13377-13382. | 6.5 | 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. | 7.8 | 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. | 0.6 | 9 |
| 119 | Characteristics of immobilized Lactobacillus delbrueckii in a liquid-solid fluidized bed bioreactor for lactic acid production.. Journal of Chemical Engineering of Japan, 1995, 28, 198-203. | 0.6 | 9 |
| 120 | Analysis of pigmentation in individual cultured plant cells using an image processing system. Biotechnology Letters, 2000, 22, 977-981. | 2.2 | 9 |
| 121 | Sacrificial Alginate-Assisted Microfluidic Engineering of Cell-Supportive Protein Microfibers for Hydrogel-Based Cell Encapsulation. ACS Omega, 2020, 5, 21641-21650. | 3.5 | 9 |
| 122 | Formation of Cell Aggregates Using Microfabricated Hydrogel Chambers for Assembly into Larger Tissues. Journal of Robotics and Mechatronics, 2013, 25, 682-689. | 1.0 | 9 |
| 123 | Interesterification and hydrolysis catalyzed by fatty acid-modified lipases. European Journal of Lipid Science and Technology, 2002, 104, 255-261. | 1.5 | 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. | 7.3 | 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 Carthamus Tinctorius.. Journal of Chemical Engineering of Japan, 1993, 26, 470-474. | 0.6 | 7 |

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| 127 | Mass transfer behavior in lactic acid fermentation using immobilized Lactobacillus delbrueckii.. Journal of Chemical Engineering of Japan, 1995, 28, 480-482. | 0.6 | 7 |
| 128 | Structural study of lipase modified with fatty acids. Biochemical Engineering Journal, 2001, 9, 185-191. | 3.6 | 7 |
| 129 | Plant Cell Immobilization in Loofa Sponge Using Two-Way Bubble Circular System.. Journal of Chemical Engineering of Japan, 1999, 32, 8-14. | 0.6 | 7 |
| 130 | Assembly of carbon nanotubes into microparticles with tunable morphologies using droplets in a non-equilibrium state. RSC Advances, 2017, 7, 17773-17780. | 3.6 | 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. | 3.6 | 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 | Cultivation of Yeast and Plant Cells Entrapped in the Low-Viscous Liquid-Core of an Alginate Membrane Capsule Prepared Using Polyethylene Glycol. Journal of Bioscience and Bioengineering, 2004, 97, 111-118. | 2.2 | 5 |
| 136 | Automated Construction System for 3D Lattice Structure Based on Alginate Gel Fiber Containing Living Cells. Journal of Robotics and Mechatronics, 2013, 25, 665-672. | 1.0 | 5 |
| 137 | Influence of Conditioned Medium on Cyanidin and Peonidin Synthesis.. Journal of Chemical Engineering of Japan, 1997, 30, 951-953. | 0.6 | 4 |
| 138 | A new method for continuous sorting of cells/particles using lattice-shaped dual-depth microchannels. , 2015, , . | | 4 |
| 139 | Formation of pressurizable hydrogel-based vascular tissue models by selective gelation in composite PDMS channels. RSC Advances, 2019, 9, 9136-9144. | 3.6 | 4 |
| 140 | Monodispersed Droplet Formation Caused by Interfacial Tension from Microfabricated Channel Array. , 2001, , 252-261. | | 4 |
| 141 | Light Effect to Promote Secondary Metabolite Production of Plant Cell Culture. , 1994, , 103-133. | | 4 |
| 142 | Effect of Light on Caffeine Production by Plant Cells of Coffea arabicaa. Annals of the New York Academy of Sciences, 1990, 613, 538-541. | 3.8 | 3 |
| 143 | Stimulatory Effect of an Indirectly Attached RNA Helicase-Recruiting Sequence on the Suppression of Gene Expression by Antisense Oligonucleotides. Oligonucleotides, 2003, 13, 9-17. | 4.3 | 3 |
| 144 | Editorial: Asia Pacific Biochemical engineering. Biotechnology Journal, 2010, 5, 436-437. | 3.5 | 3 |

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| 145 | Separation and Collection of a Specified DNA Fragment by Chip-Based CE System. , 2001, , 113-114. | | 3 |
| 146 | Formation of 3D tissues of primary hepatocytes using fibrillized collagen microparticles as intercellular binders. Journal of Bioscience and Bioengineering, 2022, 133, 265-272. | 2.2 | 3 |
| 147 | Evaluation of Co-Immobilized Lactobacillus Delbrueckii with Porous Particles for Lactic Acid Production.. Journal of Chemical Engineering of Japan, 1996, 29, 37-43. | 0.6 | 2 |
| 148 | Mathematical model analyzes light-controlled expression of the CHS promoter in BY-2 cells. Biochemical Engineering Journal, 1999, 4, 65-72. | 3.6 | 2 |
| 149 | Microfabricated Structures for Bioseparation. Progress in Biotechnology, 2000, , 69-74. | 0.2 | 2 |
| 150 | Manipulation of cells and cell spheroids using collagen hydrogel microbeads prepared by microfluidic devices. , 2012, , . | | 2 |
| 151 | Morphology control of protein microparticles produced using microfluidic droplets in a non-equilibrium state. , 2015, , . | | 2 |
| 152 | Laborless, Automated Microfluidic Tandem Cell Processor for Visualizing Intracellular Molecules of Mammalian Cells. Analytical Chemistry, 2020, 92, 2580-2588. | 6.5 | 2 |
| 153 | Medium Recycling as an Operational Strategy to Increase Plant Secondary Metabolite Formation. , 1999, , 157-163. | | 2 |
| 154 | Evaluation of Mass-Transfer Characteristics in Alginate-Membrane Liquid-Core Capsules Prepared Using Polyethylene Glycol. Journal of Bioscience and Bioengineering, 2004, 98, 114-121. | 2.2 | 2 |
| 155 | Growth and Carbon Fixation Rate of Calcareous Algae Cricosphaera carterae.. Kagaku Kogaku Ronbunshu, 1993, 19, 893-900. | 0.3 | 1 |
| 156 | Effect of CO2 concentration of growth and carbon fixation rate of pleurochrysis carterae.. Journal of Chemical Engineering of Japan, 1995, 28, 474-476. | 0.6 | 1 |
| 157 | Nanomechanics of ultrathin silicon beams and carbon nanotubes. , 0, , . | | 1 |
| 158 | ãƒžã‚¯ãƒæµ½“ãƒ‡ãƒã‚¹ã•ãžã‚¯ãƒªãƒ¼ãƒ³ãƒ«ãƒ¼ãƒ ã‚¿ã‚¯ãƒ¿. Nippon Nogeikagaku Kaishi, 2003, 77, 865-867. | 0.0 | 1 |
| 159 | Polymer Surface Morphology Control for Microfluidic Devices. , 2007, , . | | 1 |
| 160 | Blood Cell Classification Utilizing Hydrodynamic Filtration. IEEJ Transactions on Sensors and Micromachines, 2008, 128, 396-401. | 0.1 | 1 |
| 161 | Development of microfluidic cell nucleus separator employing rapid chemical treatment. , 2010, , . | | 1 |
| 162 | Fabrication of functional hydrogel microbeads utilizing non-equilibrium microfluidics for biological applications. , 2011, , . | | 1 |

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| 163 | Microfluidics and microfabrication technology for highly precise cell manipulation and cultivation. , 2011, , . | | 1 |
| 164 | Magnetic manipulation for spatially patternel alginate hydrogel microfibers. , 2013, , . | | 1 |
| 165 | Shape control of cell-embedding hydrogel microstructures utilizing non-equilibrium aqueous two-phase systems. , 2014, , . | | 1 |
| 166 | One-step microfluidic spinning of collagen microfibers and their application to cell cultivation. , 2015, , . | | 1 |
| 167 | Control of invasion direction of cancer cells using hierarchically patterned hydrogel sheets. , 2017, , . | | 1 |
| 168 | Microengineering of Collagen Hydrogels Integrated into Microfluidic Devices for Perfusion Culture of Mammalian Cells. MATEC Web of Conferences, 2021, 333, 07006. | 0.2 | 1 |
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