Toshiyuki Kanamori

List of Publications by Year
in descending order

160	4,079	126708	149479
papers	citations	33 h-index	56 g-index

169	169	169	4562
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	In Situ Control of Cell Adhesion Using Photoresponsive Culture Surface. Biomacromolecules, 2005, 6, 970-974.	2.6	200
2	Characteristic Phase Transition of Aqueous Solution of Poly(N-isopropylacrylamide) Functionalized with Spirobenzopyran. Macromolecules, 2004, 37, 4949-4955.	2.2	157
3	Photoresponsive Properties of Poly(N-isopropylacrylamide) Hydrogel Partly Modified with Spirobenzopyran. Langmuir, 2006, 22, 4353-4356.	1.6	138
4	Photoresponsive polymer gel microvalves controlled by local light irradiation. Sensors and Actuators A: Physical, 2007, 140, 176-184.	2.0	136
5	A multi-throughput multi-organ-on-a-chip system on a plate formatted pneumatic pressure-driven medium circulation platform. Lab on A Chip, 2018, 18, 115-125.	3.1	119
6	Fast-reversible light-driven hydrogels consisting of spirobenzopyran-functionalized poly(N-isopropylacrylamide). Soft Matter, 2011, 7, 8030.	1.2	110
7	Hydrogel microfabrication technology toward three dimensional tissue engineering. Regenerative Therapy, 2016, 3, 45-57.	1.4	107
8	On-demand microfluidic control by micropatterned light irradiation of a photoresponsive hydrogel sheet. Lab on A Chip, 2009, 9, 196-198.	3.1	99
9	Rewritable Microrelief Formation on Photoresponsive Hydrogel Layers. Chemistry of Materials, 2007, 19, 2730-2732.	3.2	96
10	Pressureâ€driven perfusion culture microchamber array for a parallel drug cytotoxicity assay. Biotechnology and Bioengineering, 2008, 100, 1156-1165.	1.7	88
11	Surface modification of polydimethylsiloxane with photo-grafted poly(ethylene glycol) for micropatterned protein adsorption and cell adhesion. Colloids and Surfaces B: Biointerfaces, 2008, 63, 301-305.	2.5	85
12	Surface modification of poly(l-lactic acid) affects initial cell attachment, cell morphology, and cell growth. Journal of Artificial Organs, 2005, 7, 187-193.	0.4	81
13	Development of polymer inclusion membranes based on cellulose triacetate: carrier-mediated transport of cerium(III). Journal of Membrane Science, 2004, 244, 251-257.	4.1	73
14	Microfluidic Serial Dilution Cell-Based Assay for Analyzing Drug Dose Response over a Wide Concentration Range. Analytical Chemistry, 2010, 82, 8278-8282.	3.2	72
15	Isomerization of spirobenzopyrans bearing electron-donating and electron-withdrawing groups in acidic aqueous solutions. Physical Chemistry Chemical Physics, 2011, 13, 7322.	1.3	72
16	Stepwise assembly of micropatterned coâ€cultures using photoresponsive culture surfaces and its application to hepatic tissue arrays. Biotechnology and Bioengineering, 2009, 103, 552-561.	1.7	71
17	Photocontrollable Dynamic Micropatterning of Nonâ€adherent Mammalian Cells Using a Photocleavable Poly(ethylene glycol) Lipid. Angewandte Chemie - International Edition, 2012, 51, 128-131.	7.2	63
18	Generation of arbitrary monotonic concentration profiles by a serial dilution microfluidic network composed of microchannels with a high fluidic-resistance ratio. Lab on A Chip, 2009, 9, 1763.	3.1	59

#	Article	IF	Citations
19	Fabrication of an asymmetric polyimide hollow fiber with a defect-free surface skin layer. Journal of Membrane Science, 2000, 171, 253-261.	4.1	58
20	Reversible and Efficient Proton Dissociation of Spirobenzopyran-Functionalized Poly(N-isopropylacrylamide) in Aqueous Solution Triggered by Light Irradiation and Temporary Temperature Rise. Macromolecules, 2004, 37, 7854-7856.	2.2	57
21	Stratified Dipoleâ€Arrays Model Accounting for Bulk Properties Specific to Perfluoroalkyl Compounds. ChemPlusChem, 2014, 79, 1421-1425.	1.3	56
22	Preparation of thermal-responsive poly(propylene) membranes grafted withn-isopropylacrylamide by plasma-induced polymerization and their water permeation. Journal of Applied Polymer Science, 2002, 84, 1168-1177.	1.3	55
23	Pervaporation of xylene isomer mixture through cyclodextrins containing polyacrylic acid membranes. Journal of Membrane Science, 2004, 231, 127-132.	4.1	53
24	Poly(N-isopropylacrylamide)-graft-polypropylene membranes containing adsorbed antibody for cell separation. Biomaterials, 2005, 26, 1287-1292.	5.7	53
25	Gas Separation of Asymmetric 6FDA Polyimide Membrane with Oriented Surface Skin Layer. Macromolecules, 2001, 34, 9039-9044.	2.2	52
26	Click-crosslinkable and photodegradable gelatin hydrogels for cytocompatible optical cell manipulation in natural environment. Scientific Reports, 2015, 5, 15060.	1.6	51
27	Microfluidic preparation of water-in-oil-in-water emulsions with an ultra-thin oil phase layer. Lab on A Chip, 2010, 10, 357-362.	3.1	49
28	Synthesis and characterization of an ultrathin polyion complex membrane containing Î²-cyclodextrin for separation of organic isomers. Journal of Membrane Science, 2004, 230, 171-174.	4.1	42
29	Microfluidic perfusion culture of human induced pluripotent stem cells under fully defined culture conditions. Biotechnology and Bioengineering, 2014, 111, 937-947.	1.7	41
30	Microfluidic perfusion culture chip providing different strengths of shear stress for analysis of vascular endothelial function. Journal of Bioscience and Bioengineering, 2014, 118, 327-332.	1.1	41
31	Probing the Dielectric Environment Surrounding Poly(N-isopropylacrylamide) in Aqueous Solution with Covalently Attached Spirobenzopyran. Langmuir, 2004, 20, 9315-9319.	1.6	40
32	A pneumatic pressure-driven multi-throughput microfluidic circulation culture system. Lab on A Chip, 2016, 16, 2339-2348.	3.1	37
33	Glass-based organ-on-a-chip device for restricting small molecular absorption. Journal of Bioscience and Bioengineering, 2019, 127, 641-646.	1.1	37
34	Construction of a New Artificial Biomineralization System. Biomacromolecules, 2006, 7, 95-100.	2.6	36
35	Development of polyion complex membranes based on cellulose acetate modified by oxygen plasma treatment for pervaporation. Journal of Membrane Science, 2002, 208, 223-231.	4.1	33
36	Microenvironment array chip for cell culture environment screening. Lab on A Chip, 2011, 11, 212-214.	3.1	33

#	Article	IF	Citations
37	Optical cell separation from three-dimensional environment in photodegradable hydrogels for pure culture techniques. Scientific Reports, 2014, 4, 4793.	1.6	33
38	Photoresponse of an Aqueous Two-Phase System Composed of Photochromic Dextran. Langmuir, 2006, 22, 5224-5226.	1.6	32
39	Vitrification phenomena in polysulfone/NMP/water system. Journal of Applied Polymer Science, 1999, 71, 431-438.	1.3	31
40	Activatedâ€Esterâ€Type Photocleavable Crosslinker for Preparation of Photodegradable Hydrogels Using a Twoâ€Component Mixing Reaction. Advanced Healthcare Materials, 2015, 4, 246-254.	3.9	29
41	Thermoresponsive protein adsorption of poly(N-isopropylacrylamide)-modified streptavidin on polydimethylsiloxane microchannel surfaces. Biosensors and Bioelectronics, 2009, 24, 1135-1140.	5.3	28
42	An improvement on the method of determining the solute permeability of hollow-fiber dialysis membranes photometrically using optical fibers and comparison of the method with ordinary techniques. Journal of Membrane Science, 1994, 88, 159-165.	4.1	27
43	Indium-mediated radical addition of perfluoroalkyl iodide in water. Journal of Fluorine Chemistry, 2011, 132, 427-429.	0.9	27
44	Separation of cultured strawberry cells producing anthocyanins in aqueous two-phase system. Journal of Bioscience and Bioengineering, 2005, 100, 449-454.	1.1	26
45	Preparation of porous poly(D,L-lactide) and poly(D,L-lactide-co-glycolide) membranes by a phase inversion process and investigation of their morphological changes as cell culture scaffolds. Journal of Applied Polymer Science, 2004, 92, 2082-2092.	1.3	25
46	Development of a photoresponsive cell culture surface: Regional enhancement of living-cell adhesion induced by local light irradiation. Journal of Applied Polymer Science, 2006, 100, 495-499.	1.3	25
47	Analysis of photo-induced hydration of a photochromic poly(N-isopropylacrylamide) â€“ Spiropyran copolymer thin layer by quartz crystal microbalance. European Polymer Journal, 2008, 44, 300-307.	2.6	25
48	Kinetic analysis of sequential metabolism of triazolam and its extrapolation to humans using an entero-hepatic two-organ microphysiological system. Lab on A Chip, 2020, 20, 537-547.	3.1	25
49	In Vitro Evaluation of Platelet/Biomaterial Interactions in an Epifluorescent Video Microscopy Combined with a Parallel Plate Flow Cell. Artificial Organs, 1994, 18, 588-595.	1.0	24
50	Minimally required heat doses for various tumour sizes in induction heating cancer therapy determined by computer simulation using experimental data. International Journal of Hyperthermia, 2010, 26, 465-474.	1.1	24
51	Physicochemical Studies of Bacteriorhodopsin Reconstituted in Partially Fluorinated Phosphatidylcholine Bilayers. Journal of Physical Chemistry B, 2013, 117, 5422-5429.	1.2	24
52	A diarylethene as the SO₂ gas generator upon UV irradiation. Chemical Communications, 2015, 51, 1736-1738.	2.2	24
53	Quantitative analysis of transport process of cerium(III) ion through polymer inclusion membrane containing N,N,Nâ€²,Nâ€²-tetraoctyl-3-oxapentanediamide (TODGA) as carrier. Journal of Membrane Science, 2006, 280, 73-81.	4.1	23
54	Onâ€demand killing of adherent cells on photoâ€acidâ€generating culture substrates. Biotechnology and Bioengineering, 2013, 110, 348-352.	1.7	23

#	Article	IF	Citations
55	Detachably assembled microfluidic device for perfusion culture and postâ€culture analysis of a spheroid array. Biotechnology Journal, 2014, 9, 971-979.	1.8	23
56	Photoresponse gas permeability of azobenzene-functionalized glassy polymer films. Journal of Applied Polymer Science, 2003, 88, 2068-2072.	1.3	22
57	Highly fluorinated C18 fatty acids: synthesis and interfacial properties. Journal of Fluorine Chemistry, 2004, 125, 1959-1964.	0.9	22
58	Manipulation of living cells by using PC-controlled micro-pattern projection system. Biosensors and Bioelectronics, 2007, 22, 2356-2359.	5.3	21
59	Photoinduced cytotoxicity of a photochromic diarylethene via caspase cascade activation. Chemical Communications, 2015, 51, 10957-10960.	2.2	21
60	Photoâ€•and Thermoresponsive Dehydration of Spiropyranâ€Functionalized Polymer Regulated by Molecular Recognition. Macromolecular Rapid Communications, 2018, 39, 1700234.	2.0	20
61	Pervaporative separation of organic mixtures using dinitrophenyl group-containing cellulose acetate membrane. Journal of Membrane Science, 2005, 253, 43-48.	4.1	19
62	Highly Productive Droplet Formation by Anisotropic Elongation of a Thread Flow in a Microchannel. Langmuir, 2008, 24, 13809-13813.	1.6	18
63	The measurement of small magnetic signals from magnetic nanoparticles attached to the cell surface and surrounding living cells using a general-purpose SQUID magnetometer. Physics in Medicine and Biology, 2009, 54, 2571-2583.	1.6	18
64	Technical aspects of microphysiological systems (MPS) as a promising wet human-in-vivo simulator. Drug Metabolism and Pharmacokinetics, 2018, 33, 40-42.	1.1	18
65	Coculture with hiPS-derived intestinal cells enhanced human hepatocyte functions in a pneumatic-pressure-driven two-organ microphysiological system. Scientific Reports, 2021, 11, 5437.	1.6	18
66	Development of a Novel Polyimide Hollow Fiber for an Intravascular Oxygenator. ASAIO Journal, 1997, 43, M494.	0.9	17
67	Synthesis of phospholipids containing perfluorooctyl group and their interfacial properties. Journal of Fluorine Chemistry, 2007, 128, 133-138.	0.9	17
68	Formation of monodisperse calcium alginate microbeads by rupture of water-in-oil-in-water droplets with an ultra-thin oil phase layer. Lab on A Chip, 2010, 10, 2292.	3.1	17
69	Surface properties of a single perfluoroalkyl group on water surfaces studied by surface potential measurements. Journal of Colloid and Interface Science, 2016, 483, 353-359.	5.0	17
70	Structural Analysis of Hemodialysis Membranes by Evaluating Distribution Volume of Water Contained in the Membranes. Journal of Colloid and Interface Science, 1995, 171, 361-365.	5.0	16
71	Gas transfer and blood compatibility of asymmetric polyimide hollow fiber. Journal of Biomaterials Science, Polymer Edition, 2001, 12, 533-542.	1.9	16
72	Surface orientation effect of asymmetric polyimide hollow fibers on their gas transport properties. Journal of Membrane Science, 2004, 230, 141-148.	4.1	16

#	Article	IF	Citations
73	Modification of preparation method for polymer inclusion membrane (PIM) to produce hollow fiber PIM. Journal of Applied Polymer Science, 2006, 102, 4372-4377.	1.3	16
74	Photo-induced reversible proton dissociation of spirobenzopyran in aqueous systems. Journal of Photochemistry and Photobiology A: Chemistry, 2013, 261, 46-52.	2.0	16
75	Control of adhesion of human induced pluripotent stem cells to plasma-patterned polydimethylsiloxane coated with vitronectin and Î³-globulin. Journal of Bioscience and Bioengineering, 2014, 118, 315-322.	1.1	16
76	An Origin of Complicated Infrared Spectra of Perfluoroalkyl Compounds Involving a Normal Alkyl Group. Chemistry Letters, 2015, 44, 834-836.	0.7	16
77	Mineralization of hydroxyapatite on a polymer substrate in a solution supersaturated by polyelectrolyte. Journal of Applied Polymer Science, 2006, 100, 1465-1470.	1.3	15
78	Preferential mineralization of CaCO3 layers on polymer surfaces from CaCl2 and water-soluble carbonate salt solutions supersaturated by poly(acrylic acid). Journal of Applied Polymer Science, 2004, 91, 3627-3634.	1.3	14
79	Synthesis and characterization of partially fluorinated stearolic acid analogs: Effect of their fluorine content on the monolayer at the airâ€“water interface. Journal of Fluorine Chemistry, 2007, 128, 120-126.	0.9	14
80	Effect of Partial Fluorination in the Myristoyl Groups on Thermal and Interfacial Properties of Dimyristoylphosphatidylcholine. Chemistry Letters, 2012, 41, 1495-1497.	0.7	14
81	Swelling degree and shape change of photo- and thermo-response of spirobenzopyran-functionalized porous pNIPAAm hydrogels. Journal of Molecular Liquids, 2014, 189, 63-67.	2.3	14
82	Study of Perfluoroalkyl Chain-Specific Band Shift in Infrared Spectra on the Chain Length. Journal of Physical Chemistry A, 2017, 121, 8425-8431.	1.1	14
83	Interstitial flow regulates inÂvitro three-dimensional self-organized brain micro-vessels. Biochemical and Biophysical Research Communications, 2020, 533, 600-606.	1.0	14
84	Development of a Novel Polyimide Hollow-fiber Oxygenator. Artificial Organs, 2004, 28, 487-495.	1.0	13
85	Synthesis and monolayer properties of double-chained phosphatidylcholines containing perfluoroalkyl groups of different length. Journal of Fluorine Chemistry, 2008, 129, 686-690.	0.9	13
86	Superior oxygen and glucose supply in perfusion cell cultures compared to static cell cultures demonstrated by simulations using the finite element method. Biomicrofluidics, 2011, 5, 022202.	1.2	13
87	Non-ideal mixing of dimyristoylphosphatidylcholine with its partially fluorinated analogue in hydrated bilayers. Chemical Physics Letters, 2013, 559, 107-111.	1.2	13
88	Lateral Diffusion and Molecular Interaction in a Bilayer Membrane Consisting of Partially Fluorinated Phospholipids. Langmuir, 2016, 32, 10712-10718.	1.6	13
89	Fabrication of pocket-like hydrogel microstructures through photolithography. Soft Matter, 2018, 14, 5710-5714.	1.2	13
90	Preferable structure of poly(ethylene glycol) for grafting onto a cellulosic membrane to increase hemocompatibility without reduction in solute permeability of the membrane. Journal of Applied Polymer Science, 1995, 55, 1601-1605.	1.3	12

#	Article	IF	Citations
91	Onâ€chip cell culture on a microarray of extracellular matrix with surface modification of poly(dimethylsiloxane). Biotechnology Journal, 2010, 5, 463-469.	1.8	12
92	Sectioning of cultured cell monolayer using photo-acid-generating substrate and micro-patterned light projection. European Polymer Journal, 2017, 93, 733-742.	2.6	12
93	Fluorous Property of a Short Perfluoroalkyl-Containing Compound Realized by Self-Assembled Monolayer Technique on a Silicon Substrate. Bulletin of the Chemical Society of Japan, 2019, 92, 785-789.	2.0	12
94	Effective cell separation utilizing poly(N-isopropylacrylamide)-grafted polypropylene membrane containing adsorbed antibody. Journal of Bioscience and Bioengineering, 2008, 105, 221-225.	1.1	11
95	Partially photodegradable hybrid hydrogels with elasticity tunable by light irradiation. Colloids and Surfaces B: Biointerfaces, 2015, 126, 575-579.	2.5	11
96	Raman Optical Activity on a Solid Sample: Identification of Atropisomers of Perfluoroalkyl Chains Having a Helical Conformation and No Chiral Center. Journal of Physical Chemistry A, 2019, 123, 3985-3991.	1.1	11
97	Estimate of Gas Transfer Rates of an Intravascular Membrane Oxygenator. ASAIO Journal, 2000, 46, 612-619.	0.9	10
98	Optimal design of bio-hybrid systems with a hollow fiber scaffold: model analysis of oxygen diffusion/consumption. Biochemical Engineering Journal, 2004, 20, 127-136.	1.8	10
99	Imaging cell picker: A morphology-based automated cell separation system on a photodegradable hydrogel culture platform. Journal of Bioscience and Bioengineering, 2018, 126, 653-660.	1.1	10
100	Dynamic interaction between oppositely charged vesicles: Aggregation, lipid mixing, and disaggregation. Journal of Colloid and Interface Science, 2008, 320, 611-614.	5.0	9
101	Selective separation and coâ€culture of cells by photoâ€induced enhancement of cell adhesion (PIECA). Biotechnology and Bioengineering, 2009, 102, 1278-1282.	1.7	9
102	Stability of the two-dimensional lattice of bacteriorhodopsin reconstituted in partially fluorinated phosphatidylcholine bilayers. Biochimica Et Biophysica Acta - Biomembranes, 2019, 1861, 631-642.	1.4	9
103	Dynamic Molecular Behavior of Semi-Fluorinated Oleic, Elaidic and Stearic Acids in the Liquid State. Journal of Oleo Science, 2012, 61, 649-657.	0.6	8
104	Effect of perfluoroalkyl chain length on monolayer behavior of partially fluorinated oleic acid molecules at the airâ€“water interface. Chemistry and Physics of Lipids, 2013, 172-173, 31-39.	1.5	8
105	Microcompartmentalized cell-free protein synthesis in semipermeable microcapsules composed of polyethylenimine-coated alginate. Journal of Bioscience and Bioengineering, 2014, 118, 199-204.	1.1	8
106	Photoresponsive Aqueous Dissolution of Poly(N-Isopropylacrylamide) Functionalized with o-Nitrobenzaldehyde through Phase Transition. Biomacromolecules, 2018, 19, 2913-2922.	2.6	8
107	Mass Transfer in Laminar Flows around Single Hollow-Fiber Membranes for Hemodialysis.. Journal of Chemical Engineering of Japan, 1994, 27, 830-832.	0.3	7
108	Oscillations with a long periodical time observed in solute transport by diffusion combined with convection through a single hollow-fiber membrane. Journal of Membrane Science, 2001, 184, 287-292.	4.1	7

#	Article	IF	Citations
109	Automated adherent cell elimination by a high-speed laser mediated by a light-responsive polymer. Communications Biology, 2018, 1, 218.	2.0	7
110	Morphology-based optical separation of subpopulations from a heterogeneous murine breast cancer cell line. PLoS ONE, 2017, 12, e0179372.	1.1	7
111	Design and Characterization of Partially Fluorinated Lipid Liquid-Crystal Membranes as Biomaterials. Yuki Gosei Kagaku Kyokaishi/Journal of Synthetic Organic Chemistry, 2010, 68, 206-216.	0.0	7
112	Crown Ether-Mediated Enantioselective Transport of Amino Acid across Plasticized Polymeric Membranes.. Journal of Fiber Science and Technology, 1996, 52, 105-109.	0.0	6
113	Separation of aromatic isomers on cyclophane-bonded stationary phases. Journal of Chromatography A, 2000, 877, 61-69.	1.8	6
114	Difference in solute diffusivity in crosslinked collagen gels prepared under various conditions. Materials Science and Engineering C, 2000, 13, 85-89.	3.8	6
115	Optimal design of cell culture chip on the basis of oxygen and glucose supply to cultivated cells in the chip. Biochemical Engineering Journal, 2007, 36, 304-309.	1.8	6
116	Pressure-Driven Microfluidic Perfusion Culture Device for Integrated Dose-Response Assays. Journal of the Association for Laboratory Automation, 2013, 18, 437-445.	2.8	6
117	Fabrication of Hollow Structures in Photodegradable Hydrogels Using a Multi-Photon Excitation Process for Blood Vessel Tissue Engineering. Micromachines, 2020, 11, 679.	1.4	6
118	Microfluidic Perfusion Culture. Methods in Molecular Biology, 2014, 1104, 251-263.	0.4	6
119	Preparation of a cyclophane-bonded stationary phase and its application to separation of naphthalene derivatives. Journal of Chromatography A, 1998, 803, 95-101.	1.8	5
120	Synthesis of Noncyclic Carriers for Cerium Ion Transport through Polymer Inclusion Membrane. Chemistry Letters, 2005, 34, 1636-1637.	0.7	5
121	Plasma-Patterned Polydimethylsiloxane Surface With Single-Step Coating with a Mixture of Vitronectin and Albumin Enables the Formation of Small Discs and Spheroids of Human Induced Pluripotent Stem Cells. Plasma Medicine, 2014, 4, 165-176.	0.2	5
122	Effect of the fluorination degree of hydrophobic chains on the monolayer behavior of unsaturated diacylphosphatidylcholines bearing partially fluorinated 9-octadecynoyl (stearoloyl) groups at the airâ€“water interface. Colloids and Surfaces B: Biointerfaces, 2014, 123, 246-253.	2.5	5
123	Cell Patterning by Micro-Pattern Projection of UV Light Through Photoinduced Enhancement of Cell Adhesion (PIECA). Methods in Cell Biology, 2014, 120, 185-197.	0.5	5
124	Compartmentalized microfluidic perfusion system to culture human induced pluripotent stem cell aggregates. Journal of Bioscience and Bioengineering, 2017, 124, 234-241.	1.1	5
125	High cell density suppresses BMP4-induced differentiation of human pluripotent stem cells to produce macroscopic spatial patterning in a unidirectional perfusion culture chamber. Journal of Bioscience and Bioengineering, 2018, 126, 379-388.	1.1	5
126	Mass transfer of a solute by diffusion with convection around a single hollow-fiber membrane for hemodialysis. Desalination, 2000, 129, 217-225.	4.0	4

#	Article	IF	Citations
127	Scaffold fabrication in a perfusion culture microchamber array chip by O2 plasma bonding of poly(dimethylsiloxane) protected by a physical mask. Biomicrofluidics, 2011, 5, 022204.	1.2	4
128	Solute-removal enhancement caused by local convective flow in a hemodialyzer. Journal of Artificial Organs, 2012, 15, 305-310.	0.4	4
129	Masked plasma oxidation: simple micropatterning of extracellular matrix in a closed microchamber array. RSC Advances, 2013, 3, 17749.	1.7	4
130	Inverting microwell array chip for the cultivation of human induced pluripotent stem cells with controlled aggregate size and geometrical arrangement. Biomicrofluidics, 2014, 8, 024112.	1.2	4
131	Dynamically controlled construction of microstructures based on photo-induced phase transition of a spirobenzopyran-modified polymer solution. RSC Advances, 2016, 6, 44212-44215.	1.7	4
132	Aggregation behavior of short-chained archaeal phospholipid analogs: Contribution of methyl branches to lipid hydrophobicity and membrane formability. Colloids and Interface Science Communications, 2019, 32, 100200.	2.0	4
133	Effect of the fluorination degree of partially fluorinated octyl-phosphocholine surfactants on their interfacial properties and interactions with purple membrane as a membrane protein model. Chemistry and Physics of Lipids, 2020, 227, 104870.	1.5	4
134	Pressure-Driven Microfluidic Device for Droplet Formation with Minimized Dead Volume. Journal of Chemical Engineering of Japan, 2014, 47, 841-847.	0.3	4
135	Size of polymeric particles forming hemodialysis membranes determined from water and solute permeabilities. Journal of Applied Polymer Science, 1998, 67, 833-840.	1.3	3
136	Is microfluidic perfusion culture the future for large-scale screening of human-induced pluripotent stem cells?. Pharmaceutical Bioprocessing, 2014, 2, 303-305.	0.8	3
137	Light Doseâ€Dependent Thickness Control of Photoacid Generatorâ€Bearing Hydrogel. Macromolecular Symposia, 2015, 358, 52-58.	0.4	3
138	Membrane properties of ether-type phosphatidylcholine bearing partially fluorinated C18-monoacetylenic chains and their applicability to membrane protein reconstitution matrices. Colloids and Surfaces B: Biointerfaces, 2021, 198, 111459.	2.5	3
139	Mass Transfer of Antibiotics Adsorbed by Human Serum Albumin in Hemodialyzers. Biotechnology Progress, 1996, 12, 503-509.	1.3	2
140	Comparison of substance supply in static and perfusion cultures based on mass transport phenomena. Biochemical Engineering Journal, 2011, 57, 69-74.	1.8	2
141	Stepwise construction of dynamic microscale concentration gradients around hydrogel-encapsulated cells in a microfluidic perfusion culture device. Royal Society Open Science, 2020, 7, 200027.	1.1	2
142	Spiropyran-Functionalized Hydrogels. , 2014, , 219-229.		2
143	Simple thermodynamics of macroscopic phase separation in shrinking gels. Journal of the Chemical Society, Faraday Transactions, 1996, 92, 1537.	1.7	1
144	Preparation of calcium alginate microbeads from water-in-oil-in-water emulsions using microfluidic device. Journal of Bioscience and Bioengineering, 2009, 108, S162.	1.1	1

#	Article	IF	Citations
145	(Invited) Integrated Perfusion Culture Microchamber Array Chip for High-Throughput Drug Dose Response Assay. ECS Transactions, 2010, 33, 197-207.	0.3	1
146	Dynamic PhotoChemical Lipid Micropatterning for Manipulation of Nonadherent Mammalian Cells. Methods in Cell Biology, 2014, 120, 131-144.	0.5	1
147	Micropatterned three-dimensional culture in click-crosslinkable and photodegradable gelatin hydrogels. , 2015, , .		1
148	Micropatterning: Activatedâ€Esterâ€Type Photocleavable Crosslinker for Preparation of Photodegradable Hydrogels Using a Twoâ€Component Mixing Reaction (Adv. Healthcare Mater. 2/2015). Advanced Healthcare Materials, 2015, 4, 245-245.	3.9	1
149	Application of Microfluidics in Stem Cell Culture. , 2016, , .		1
150	Photolithographic Fabrication of Semi 3-D Microstructures Composed of Flexible Hydrogel Sheet for in Vivo-like Cell Culture System. ACS Applied Bio Materials, 2019, 2, 4129-4133.	2.3	1
151	Modeling of differentiation pattern formation in human induced pluripotent stem cells mediated by BMP4 and its inhibitor noggin secreted from cells. Biochemical Engineering Journal, 2021, 176, 108159.	1.8	1
152	æ‹¡æ•£ã¨å¯¾æµã€Œå…±å˜ã™ã‚‹ç©ºç³è†œåž‹è¡€æ¶²é€æžè†œã«ãŠã‘ã‚‹ç‰©è³ªç§»å‹•. Kagaku Kogaku Ronbunshu, 2011, 37, 91-95.	0.1	1
153	Spiropyran-Functionalized Hydrogels. , 2019, , 309-320.		1
154	Preparation of asymmetric hollow-fiber membrane with ultrathin dense skin layer on the outer surface using dry/wet phase inversion process. Macromolecular Symposia, 2000, 160, 233-238.	0.4	0
155	Hemodialysis. Membrane, 2006, 31, 34-35.	0.0	0
156	Patterning of human induced pluripotent stem cells using patterned plasma treatment on a PDMS surface followed by composite protein adsorption. , 2013, , .		0
157	Microscale cell manipulation by using photodegradable hydrogel. , 2014, , .		0
158	Photofablication Techniques for 3D Tissue Construct. , 2015, , 203-211.		0
159	Photoâ€“manipulation of Cultured Cell Monolayer Using PAG Polymer Thin Layer. Membrane, 2015, 40, 130-136.	0.0	0
160	Photoresponsive Polymers: Cell Bioassay System Control. , 0, , 5984-6001.		0