Masahiro Kino-oka

List of Publications by Citations

184 papers	1,902 citations	23 h-index	32 g-index
193 ext. papers	2,115 ext. citations	3.7 avg, IF	4.97 L-index

#	Paper	IF	Citations
184	Effect of neurosphere size on the growth rate of human neural stem/progenitor cells. *Journal of Neuroscience Research*, **2006**, 84, 1682-91	4.4	95
183	Production and release of pigments by culture of transformed hairy root of red beet. *Journal of Bioscience and Bioengineering*, **1992**, 73, 31-36		64
182	Subculture of chondrocytes on a collagen type I-coated substrate with suppressed cellular dedifferentiation. *Tissue Engineering*, **2005**, 11, 597-608		56
181	Collagen vitrigel membrane useful for paracrine assays in vitro and drug delivery systems in vivo. *Journal of Biotechnology*, **2007**, 131, 76-83	3.7	49
180	A kinetic modeling of chondrocyte culture for manufacture of tissue-engineered cartilage. *Journal of Bioscience and Bioengineering*, **2005**, 99, 197-207	3.3	46
179	Network formation through active migration of human vascular endothelial cells in a multilayered skeletal myoblast sheet. *Biomaterials*, **2013**, 34, 662-8	15.6	39
178	Bioreactor design for successive culture of anchorage-dependent cells operated in an automated manner. *Tissue Engineering*, **2005**, 11, 535-45		39
177	Designing culture surfaces based on cell anchoring mechanisms to regulate cell morphologies and functions. *Biotechnology Advances*, **2010**, 28, 7-16	17.8	38
176	Culture of red beet hairy root in bioreactor and recovery of pigment released from the cells by repeated treatment of oxygen starvation.. *Journal of Chemical Engineering of Japan*, **1992**, 25, 490-495	0.8	37
175	Switching between self-renewal and lineage commitment of human induced pluripotent stem cells via cell-substrate and cell-cell interactions on a dendrimer-immobilized surface. *Biomaterials*, **2014**, 35, 5670-8	15.6	32
174	Recent developments in processing systems for cell and tissue cultures toward therapeutic application. *Journal of Bioscience and Bioengineering*, **2009**, 108, 267-76	3.3	31
173	Influence of surface topography on the human epithelial cell response to micropatterned substrates with convex and concave architectures. *Journal of Biological Engineering*, **2014**, 8, 13	6.3	30
172	Evaluation of attachment and growth of anchorage-dependent cells on culture surfaces with type I collagen coating. *Journal of Bioscience and Bioengineering*, **2001**, 92, 385-388	3.3	30
171	High-density culture of red beet hairy roots by considering medium flow condition in a bioreactor. *Chemical Engineering Science*, **1999**, 54, 3179-3186	4.4	29
170	Automating the expansion process of human skeletal muscle myoblasts with suppression of myotube formation. *Tissue Engineering - Part C: Methods*, **2009**, 15, 717-28	2.9	28
169	Cardiomyogenic induction of human mesenchymal stem cells by altered Rho family GTPase expression on dendrimer-immobilized surface with D-glucose display. *Biomaterials*, **2010**, 31, 7666-77	15.6	28
168	Response of human epithelial cells to culture surfaces with varied roughnesses prepared by immobilizing dendrimers with/without D-glucose display. *Journal of Bioscience and Bioengineering*, **2007**, 103, 192-9	3.3	27

167	Valuation of growth parameters in monolayer keratinocyte cultures based on a two-dimensional cell placement model. *Journal of Bioscience and Bioengineering*, **2000**, 89, 285-7	3.3	26
166	Characterization of cellular motions through direct observation of individual cells at early stage in anchorage-dependent culture. *Journal of Bioscience and Bioengineering*, **2002**, 94, 351-356	3.3	25
165	Development of an on-line monitoring system of human keratinocyte growth by image analysis and its application to bioreactor culture. *Biotechnology and Bioengineering*, **2000**, 67, 234-239	4.9	25
164	Influence of medium constituents on enhancement of pigment production by batch culture of red beet hairy roots. *Journal of Bioscience and Bioengineering*, **1994**, 77, 215-217		25
163	A kinetic model of branching growth of plant hairy root.. *Journal of Chemical Engineering of Japan*, **1989**, 22, 698-700	0.8	25
162	Morphological evaluation of chondrogenic potency in passaged cell populations. *Journal of Bioscience and Bioengineering*, **2009**, 107, 544-51	3.3	24
161	Assessment of cell detachment and growth potential of human keratinocyte based on observed changes in individual cell area during trypsinization. *Biochemical Engineering Journal*, **2004**, 17, 49-55	4.2	22
160	Computer controlled bioreactor for large-scale production of cultured skin grafts. *Annals of the New York Academy of Sciences*, **1999**, 875, 386-97	6.5	22
159	Culture medium refinement by dialysis for the expansion of human induced pluripotent stem cells in suspension culture. *Bioprocess and Biosystems Engineering*, **2017**, 40, 123-131	3.7	21
158	Evaluation of vertical cell fluidity in a multilayered sheet of skeletal myoblasts. *Journal of Bioscience and Bioengineering*, **2012**, 113, 128-31	3.3	20
157	Observational examination of aggregation and migration during early phase of neurosphere culture of mouse neural stem cells. *Journal of Bioscience and Bioengineering*, **2007**, 104, 231-4	3.3	20
156	Evaluation of growth potential of human epithelial cells by motion analysis of pairwise rotation under glucose-limited condition. *Biochemical Engineering Journal*, **2004**, 19, 109-117	4.2	19
155	Maintenance of an undifferentiated state of human induced pluripotent stem cells through migration-dependent regulation of the balance between cell-cell and cell-substrate interactions. *Journal of Bioscience and Bioengineering*, **2015**, 119, 617-22	3.3	18
154	Seeding density modulates migration and morphology of rabbit chondrocytes cultured in collagen gels. *Biotechnology and Bioengineering*, **2009**, 102, 294-302	4.9	18
153	Effect of liquid flow on culture of red beet hairy roots in single column reactor.. *Journal of Chemical Engineering of Japan*, **1997**, 30, 1070-1075	0.8	18
152	Characterization of pak-bung green hairy roots cultivated under light irradiation. *Journal of Bioscience and Bioengineering*, **1994**, 78, 42-48		18
151	Production and release of anthraquinone pigments by hairy roots of madder (Rubia tinctorum L.) under improved culture conditions. *Journal of Bioscience and Bioengineering*, **1994**, 77, 103-106		18
150	A novel, flexible and automated manufacturing facility for cell-based health care products: Tissue Factory. *Regenerative Therapy*, **2018**, 9, 89-99	3.7	18

149	Kinetic analysis of deviation from the undifferentiated state in colonies of human induced pluripotent stem cells on feeder layers. *Biotechnology and Bioengineering*, **2014**, 111, 1128-38	4.9	17
148	Growth and differentiation potentials in confluent state of culture of human skeletal muscle myoblasts. *Journal of Bioscience and Bioengineering*, **2010**, 109, 310-3	3.3	17
147	Morphological regulation of rabbit chondrocytes on glucose-displayed surface. *Biomaterials*, **2007**, 28, 1680-8	15.6	17
146	Size- and time-dependent growth properties of human induced pluripotent stem cells in the culture of single aggregate. *Journal of Bioscience and Bioengineering*, **2017**, 124, 469-475	3.3	16
145	Morphological regulation and aggregate formation of rabbit chondrocytes on dendrimer-immobilized surfaces with D-glucose display. *Journal of Bioscience and Bioengineering*, **2009**, 107, 196-205	3.3	16
144	Reversible morphology change of horseradish hairy roots cultivated in phytohormone-containing media. *Journal of Bioscience and Bioengineering*, **1993**, 75, 271-275		16
143	Correlation of cellular life span with growth parameters observed in successive cultures of human keratinocytes. *Journal of Bioscience and Bioengineering*, **2002**, 94, 231-236	3.3	15
142	Bioprocessing Strategies for Pluripotent Stem Cells Based on Waddington's Epigenetic Landscape. *Trends in Biotechnology*, **2018**, 36, 89-104	15.1	15
141	Endothelial cell behavior inside myoblast sheets with different thickness. *Biotechnology Letters*, **2013**, 35, 1001-8	3	14
140	Enrichment of undifferentiated mouse embryonic stem cells on a culture surface with a glucose-displaying dendrimer. *Biomaterials*, **2008**, 29, 4236-43	15.6	14
139	Long-term subculture of human keratinocytes under an anoxic condition. *Journal of Bioscience and Bioengineering*, **2005**, 100, 119-22	3.3	14
138	Process design of chondrocyte cultures with monolayer growth for cell expansion and subsequent three-dimensional growth for production of cultured cartilage. *Journal of Bioscience and Bioengineering*, **2005**, 100, 67-76	3.3	14
137	Comprehension of terminal differentiation and dedifferentiation of chondrocytes during passage cultures. *Journal of Bioscience and Bioengineering*, **2011**, 112, 395-401	3.3	13
136	Ethanol production from biomass by repetitive solid-state fed-batch fermentation with continuous recovery of ethanol. *Applied Microbiology and Biotechnology*, **2010**, 88, 87-94	5.7	13
135	Culture of red beet hairy roots by considering variation in sensitivity of tip meristems to hydraulic stress. *Biochemical Engineering Journal*, **2000**, 6, 1-6	4.2	13
134	Numerical Investigation for the Movement of Cell Colonies in Bioreactors: Stirring and Orbital Shaking Tanks. *Journal of Chemical Engineering of Japan*, **2018**, 51, 423-430	0.8	13
133	Role of cell-secreted extracellular matrix formation in aggregate formation and stability of human induced pluripotent stem cells in suspension culture. *Journal of Bioscience and Bioengineering*, **2019**, 127, 372-380	3.3	13
132	Strategy for preventing bacterial contamination by adding exogenous ethanol in solid-state semi-continuous bioethanol production. *Journal of Bioscience and Bioengineering*, **2011**, 111, 343-5	3.3	12

131	Synergic stimulation of laminin and epidermal growth factor facilitates the myoblast growth through promoting migration. *Journal of Bioscience and Bioengineering*, **2009**, 108, 174-7	3.3	12
130	Characterization of spatial growth and distribution of chondrocyte cells embedded in collagen gels through a stereoscopic cell imaging system. *Biotechnology and Bioengineering*, **2008**, 99, 1230-40	4.9	12
129	Development and characterization of a photoautotrophic cell line of pak-bung hairy roots. *Journal of Bioscience and Bioengineering*, **2000**, 89, 151-6	3.3	12
128	Oxygen transfer in bioreactor for culture of plant hairy roots.. *Journal of Chemical Engineering of Japan*, **1996**, 29, 531-534	0.8	12
127	Botulinum hemagglutinin-mediated in situ break-up of human induced pluripotent stem cell aggregates for high-density suspension culture. *Biotechnology and Bioengineering*, **2018**, 115, 910-920	4.9	11
126	Evaluation of growth property of red beet hairy roots depending on condition of inocula and its application to culture control with fuzzy logic theory. *Biochemical Engineering Journal*, **2001**, 8, 121-127	4.2	11
125	Growth characteristics of liverwort cells, Marchantia paleacea var. diptera, in a photoautotrophic suspension culture. *Journal of Bioscience and Bioengineering*, **1995**, 80, 580-585		11
124	Slow freezing process design for human induced pluripotent stem cells by modeling intracontainer variation. *Computers and Chemical Engineering*, **2020**, 132, 106597	4	11
123	Botulinum hemagglutinin-mediated selective removal of cells deviating from the undifferentiated state in hiPSC colonies. *Scientific Reports*, **2017**, 7, 93	4.9	10
122	Maintenance of human chondrogenic phenotype on a dendrimer-immobilized surface for an application of cell sheet engineering. *BMC Biotechnology*, **2018**, 18, 14	3.5	10
121	Kinetic Expression for Pigment Production in Culture of Red beet Hairy Roots.. *Journal of Chemical Engineering of Japan*, **1995**, 28, 772-778	0.8	10
120	Preferential growth of skeletal myoblasts and fibroblasts in co-culture on a dendrimer-immobilized surface. *Journal of Bioscience and Bioengineering*, **2013**, 115, 96-9	3.3	9
119	Analysis of gene expression profiles of induced by direct contact with through recognition of yeast mannan. *Bioscience of Microbiota, Food and Health*, **2017**, 36, 17-25	3.2	9
118	Image cytometry for analyzing regional distribution of cells inside human neurospheres. *Journal of Bioscience and Bioengineering*, **2007**, 103, 384-7	3.3	9
117	Characterization of cellular motions through direct observation of individual cells at early stage in anchorage-dependent culture. *Journal of Bioscience and Bioengineering*, **2002**, 94, 351-6	3.3	9
116	Anomalous cell migration triggers a switch to deviation from the undifferentiated state in colonies of human induced pluripotent stems on feeder layers. *Journal of Bioscience and Bioengineering*, **2019**, 127, 246-255	3.3	9
115	Model-based assessment of temperature profiles in slow freezing for human induced pluripotent stem cells. *Computers and Chemical Engineering*, **2021**, 144, 107150	4	9
114	Current state and perspectives in modeling and control of human pluripotent stem cell expansion processes in stirred-tank bioreactors. *Biotechnology Progress*, **2017**, 33, 355-364	2.8	8

113	Changes in human mesenchymal stem cell behaviors on dendrimer-immobilized surfaces due to mediation of fibronectin adsorption and assembly. *Journal of Bioscience and Bioengineering*, **2015**, 120, 709-14	3.3	8
112	Comparison of growth kinetics between static and dynamic cultures of human induced pluripotent stem cells. *Journal of Bioscience and Bioengineering*, **2018**, 125, 736-740	3.3	8
111	Kinetic analysis of cell decay during the filling process: Application to lot size determination in manufacturing systems for human induced pluripotent and mesenchymal stem cells. *Biochemical Engineering Journal*, **2018**, 131, 31-38	4.2	8
110	Maintenance of undifferentiated state of human induced pluripotent stem cells through cytoskeleton-driven force acting to secreted fibronectin on a dendrimer-immobilized surface. *Journal of Bioscience and Bioengineering*, **2014**, 118, 716-22	3.3	8
109	Modulation of chondrocyte migration and aggregation by insulin-like growth factor-1 in cultured cartilage. *Biotechnology Letters*, **2013**, 35, 295-300	3	8
108	Myogenic induction of human mesenchymal stem cells by culture on dendrimer-immobilized surface with d-glucose display. *Journal of Bioscience and Bioengineering*, **2010**, 109, 55-61	3.3	8
107	Direct measurement of oxygen concentration inside cultured cartilage for relating to spatial growth of rabbit chondrocytes. *Journal of Bioscience and Bioengineering*, **2010**, 110, 363-6	3.3	8
106	Glucose transporter mediation responsible for morphological changes of human epithelial cells on glucose-displayed surfaces. *Journal of Bioscience and Bioengineering*, **2008**, 105, 319-26	3.3	8
105	Dendrimer-immobilized culture surface as a tool to evaluate formation of cellular cytoskeleton of anchorage-dependent cells. *Journal of Bioscience and Bioengineering*, **2004**, 97, 233-8	3.3	8
104	Extracellular production of pigment from red beet hairy roots accompanied by oxygen starvation.. *Journal of Chemical Engineering of Japan*, **1996**, 29, 488-493	0.8	8
103	Production of Superoxide Dismutase from Plant Hairy Roots by Considering the Effect of Nitrogen Source in Their Cultures.. *Kagaku Kogaku Ronbunshu*, **1991**, 17, 1012-1018	0.4	8
102	Migration-driven aggregate behaviors of human mesenchymal stem cells on a dendrimer-immobilized surface direct differentiation toward a cardiomyogenic fate commitment. *Journal of Bioscience and Bioengineering*, **2016**, 122, 627-632	3.3	8
101	Characterization and application of plant hairy roots endowed with photosynthetic functions. *Advances in Biochemical Engineering/Biotechnology*, **2001**, 72, 183-218	1.7	8
100	Facilitation of uniform maturation of human retinal pigment epithelial cells through collective movement in culture. *Journal of Bioscience and Bioengineering*, **2016**, 121, 220-6	3.3	7
99	Comprehension of attachment and multiplication properties by observing individual cell behaviors in anchorage-dependent culture. *Biochemical Engineering Journal*, **2004**, 20, 197-202	4.2	7
98	Relations between individual cellular motions and proliferative potentials in successive cultures of human keratinocytes. *Cytotechnology*, **2005**, 47, 127-31	2.2	7
97	Conductometric estimation of main inorganic nutrients in plant cell cultures.. *Journal of Chemical Engineering of Japan*, **1991**, 24, 381-384	0.8	7
96	Correlation of cellular life span with growth parameters observed in successive cultures of human keratinocytes. *Journal of Bioscience and Bioengineering*, **2002**, 94, 231-6	3.3	7

95	Directed differentiation of human mesenchymal stem cells toward a cardiomyogenic fate commitment through formation of cell aggregates. *Biochemical Engineering Journal*, **2014**, 84, 53-58	4.2	6
94	Analysis of locality of early-stage maturation in confluent state of human retinal pigment epithelial cells. *Journal of Bioscience and Bioengineering*, **2012**, 113, 778-81	3.3	6
93	Assessment of herbicidal toxicity based on non-destructive measurement of local chlorophyll content in photoautotrophic hairy roots. *Journal of Bioscience and Bioengineering*, **2003**, 95, 264-70	3.3	6
92	Segmentation of plant hairy roots promotes lateral root emergence and subsequent growth. *Journal of Bioscience and Bioengineering*, **1999**, 88, 690-2	3.3	6
91	Growth of Human Keratinocytes on Hydrophilic Film Support and Application to Bioreactor Culture.. *Journal of Chemical Engineering of Japan*, **1998**, 31, 856-859	0.8	6
90	Apoptosis-based method for determining lot sizes in the filling of human-induced pluripotent stem cells. *Journal of Tissue Engineering and Regenerative Medicine*, **2020**, 14, 1641-1651	4.4	6
89	Experience of contamination during autologous cell manufacturing in cell processing facility under the Japanese Medical Practitioners Act and the Medical Care Act. *Regenerative Therapy*, **2016**, 5, 25-30	3.7	6
88	Effect of migratory behaviors on human induced pluripotent stem cell colony formation on different extracellular matrix proteins. *Regenerative Therapy*, **2019**, 10, 27-35	3.7	6
87	Current Developments in the Stable Production of Human Induced Pluripotent Stem Cells. *Engineering*, **2021**, 7, 144-152	9.7	6
86	Effects of residual HO on the growth of MSCs after decontamination. *Regenerative Therapy*, **2018**, 9, 111-115	3.7	6
85	Alterations in Nuclear Lamina and the Cytoskeleton of Bone Marrow-Derived Human Mesenchymal Stem Cells Cultured Under Simulated Microgravity Conditions. *Stem Cells and Development*, **2019**, 28, 1167-1176	4.4	5
84	Characterization of spatial cell distribution in multilayer sheet of human keratinocytes through a stereoscopic cell imaging system. *Journal of Bioscience and Bioengineering*, **2011**, 112, 289-91	3.3	5
83	Synergistic effect of D-glucose and epidermal growth factor display on dynamic behaviors of human epithelial cells. *Journal of Bioscience and Bioengineering*, **2007**, 104, 428-31	3.3	5
82	A Three-dimensional Growth Model for Chondrocytes Embedded in Collagen Gel. *Kagaku Kogaku Ronbunshu*, **2004**, 30, 515-521	0.4	5
81	Culture of Red Beet Hairy Roots in a Column-type Reactor Associated with Pigment Release.. *Plant Tissue Culture Letters*, **1995**, 12, 201-204		5
80	Effect of Co-culturing Fibroblasts in Human Skeletal Muscle Cell Sheet on Angiogenic Cytokine Balance and Angiogenesis. *Frontiers in Bioengineering and Biotechnology*, **2020**, 8, 578140	5.8	5
79	Elucidation of human induced pluripotent stem cell behaviors in colonies based on a kinetic model. *Journal of Bioscience and Bioengineering*, **2019**, 127, 625-632	3.3	5
78	Observation of individual cell behaviors to analyze mitogenic effects of sericin **2006**, 155-161		5

77	Maintenance of an undifferentiated state of human-induced pluripotent stem cells through botulinum hemagglutinin-mediated regulation of cell behavior. *Journal of Bioscience and Bioengineering*, **2019**, 127, 744-751	3.3	4
76	Kinetic modeling of human induced pluripotent stem cell expansion in suspension culture. *Regenerative Therapy*, **2019**, 12, 88-93	3.7	4
75	Muscle lineage switching by migratory behaviour-driven epigenetic modifications of human mesenchymal stem cells on a dendrimer-immobilized surface. *Acta Biomaterialia*, **2020**, 106, 170-180	10.8	4
74	Maintenance of Neurogenic Differentiation Potential in Passaged Bone Marrow-Derived Human Mesenchymal Stem Cells Under Simulated Microgravity Conditions. *Stem Cells and Development*, **2019**, 28, 1552-1561	4.4	4
73	A collagen-coated surface enables quantitative evaluation of morphological behaviors of rabbit chondrocytes relating to cell differentiation in an early culture phase. *Biochemical Engineering Journal*, **2009**, 45, 60-68	4.2	4
72	Elongating responses to herbicides of heterotrophic and photoautotrophic hairy roots derived from pak-bung plant. *Journal of Bioscience and Bioengineering*, **2002**, 93, 505-8	3.3	4
71	Segmental distribution in potentials of lateral root budding and oxygen uptake of plant hairy roots. *Biochemical Engineering Journal*, **2002**, 10, 73-76	4.2	4
70	Effect of Light Irradiation on Growth and Chlorophyll Formation of Pak-Bung Green Hairy Roots.. *Journal of Chemical Engineering of Japan*, **1996**, 29, 1050-1054	0.8	4
69	Effect of Liquid Flow on Pigment Formation of Red Beet Hairy Roots.. *Journal of Chemical Engineering of Japan*, **1999**, 32, 370-373	0.8	4
68	Suppression of time-dependent decay by controlling the redox balance of human induced pluripotent stem cells suspended in a cryopreservation solution. *Biochemical Engineering Journal*, **2020**, 155, 107465	4.2	4
67	Large-scale culture of a megakaryocytic progenitor cell line with a single-use bioreactor system. *Biotechnology Progress*, **2018**, 34, 362-369	2.8	4
66	Phenotypic heterogeneity of human retinal pigment epithelial cells in passaged cell populations. *Journal of Bioscience and Bioengineering*, **2017**, 124, 227-233	3.3	3
65	Understanding the formation and behaviors of droplets toward consideration of changeover during cell manufacturing. *Regenerative Therapy*, **2019**, 12, 36-42	3.7	3
64	A distribution-based approach for determining lot sizes in the filling of human-induced pluripotent stem cells. *Regenerative Therapy*, **2019**, 12, 94-101	3.7	3
63	Effect of liquid flow by pipetting during medium change on deformation of hiPSC aggregates. *Regenerative Therapy*, **2019**, 12, 20-26	3.7	3
62	Disruption of myoblast alignment by highly motile rhabdomyosarcoma cell in tissue structure. *Journal of Bioscience and Bioengineering*, **2017**, 123, 259-264	3.3	3
61	Quality control of cultured tissues requires tools for quantitative analyses of heterogeneous features developed in manufacturing process. *Cell and Tissue Banking*, **2009**, 10, 63-74	2.2	3
60	Monitoring of monolayer and multilayer growth for epithelial sheet formation. *Biochemical Engineering Journal*, **2006**, 32, 49-55	4.2	3

59	Cultured epithelial autografts for the management of a chronic pretibial leg ulcer due to congenital valvular aplasia. *Dermatology*, **1999**, 198, 101-3	4.4	3
58	Evaluation of Inhibitory Effect of Ammonium Ion on Cultures of Plant Hairy Roots.. *Journal of Chemical Engineering of Japan*, **1993**, 26, 578-580	0.8	3
57	Elongating Potential of Pak-Bung Hairy Roots under Photoautotrophic Culture Condition.. *Journal of Chemical Engineering of Japan*, **2001**, 34, 1396-1401	0.8	3
56	Effect of transforming growth factor-beta1 on morphological characteristics relating to migration and differentiation of rabbit chondrocytes cultured in collagen gels. *Journal of Bioscience and Bioengineering*, **2008**, 106, 547-53	3.3	3
55	Cell Tracking under High Confluency Conditions by Candidate Cell Region Detection-based Association Approach **2013**,		3
54	Bioengineering Considerations for a Nurturing Way to Enhance Scalable Expansion of Human Pluripotent Stem Cells. *Biotechnology Journal*, **2020**, 15, e1900314	5.6	3
53	An prediction tool for the expansion culture of human skeletal muscle myoblasts. *Royal Society Open Science*, **2016**, 3, 160500	3.3	3
52	Chondrogenesis and hypertrophy in response to aggregate behaviors of human mesenchymal stem cells on a dendrimer-immobilized surface. *Biotechnology Letters*, **2017**, 39, 1253-1261	3	2
51	Variation in the manufacturing reproducibility of autologous cell-based products depending on raw material shipment conditions. *Regenerative Therapy*, **2019**, 12, 102-107	3.7	2
50	The Numerical Estimation of Mass Transfer Coefficient of Oxygen in the Large-Scale Suspension Culture of iPS Cells. *IOP Conference Series: Materials Science and Engineering*, **2020**, 778, 012030	0.4	2
49	Cell jamming, stratification and p63 expression in cultivated human corneal epithelial cell sheets. *Scientific Reports*, **2020**, 10, 9282	4.9	2
48	A Simple and Robust Method for Culturing Human-Induced Pluripotent Stem Cells in an Undifferentiated State Using Botulinum Hemagglutinin. *Biotechnology Journal*, **2018**, 13, 1700384	5.6	2
47	Numerical investigation of particle dispersion in the preprocessing stage for a static cell cultivation. *Regenerative Therapy*, **2019**, 12, 83-87	3.7	2
46	Cell behavior analysis to evaluate proliferative potentials of human lymphocytes expanded and activated for therapeutic use. *Journal of Bioscience and Bioengineering*, **2008**, 105, 566-9	3.3	2
45	Hybrid-model-based design of fill-freeze-thaw processes for human induced pluripotent stem cells considering productivity and quality. *Computers and Chemical Engineering*, **2022**, 156, 107566	4	2
44	Designing a blueprint for next-generation stem cell bioprocessing development. *Biotechnology and Bioengineering*, **2020**, 117, 832-843	4.9	2
43	Numerical Optimization of Particle Dispersion in Wave Bioreactor for Static Cell Cultivation. *Journal of Chemical Engineering of Japan*, **2021**, 54, 87-92	0.8	2
42	The impact of culture dimensionality on behavioral epigenetic memory contributing to pluripotent state of iPS cells. *Journal of Cellular Physiology*, **2021**, 236, 4985-4996	7	2

41	A Novel Strategy for Simple and Robust Expansion of Human Pluripotent Stem Cells Using Botulinum Hemagglutinin. *Advances in Experimental Medicine and Biology*, **2018**, 1077, 19-29	3.6	2
40	Degradation of endothelial network in disordered tumor-containing cell sheet. *Journal of Bioscience and Bioengineering*, **2017**, 123, 748-753	3.3	1
39	Locational heterogeneity of maturation by changes in migratory behaviors of human retinal pigment epithelial cells in culture. *Journal of Bioscience and Bioengineering*, **2015**, 119, 107-12	3.3	1
38	Effect of preservation conditions of collagen substrate on its fibril formation and rabbit chondrocyte morphology. *Journal of Bioscience and Bioengineering*, **2012**, 114, 360-3	3.3	1
37	Embryonic Stem Cells Maintain an Undifferentiated State on Dendrimer-Immobilized Surface with d-Glucose Display. *Polymers*, **2011**, 3, 2078-2087	4.5	1
36	Development of culture techniques of keratinocytes for skin graft production. *Advances in Biochemical Engineering/Biotechnology*, **2004**, 91, 135-69	1.7	1
35	Acute responses of cell individuals observed after calcium administration in human keratinocyte culture. *Biochemical Engineering Journal*, **2004**, 18, 155-158	4.2	1
34	Effects of Glucose Concentration, Medium Osmotic Pressure and Light Intensity on the Growth of Marchantia paleacea var. diptera Cells in Photomixotrophic Culture.. *Kagaku Kogaku Ronbunshu*, **1998**, 24, 692-695	0.4	1
33	Development of an automated chip culture system with integrated on-line monitoring for maturation culture of retinal pigment epithelial cells. *AIMS Bioengineering*, **2017**, 4, 402-417	3.4	1
32	Future Prospects for Tissue Factory. *Iryou Kikigaku (the Japanese Journal of Medical Instrumentation)*, **2011**, 81, 434-438	0	1
31	Numerical Simulation of Shaking Optimization in a Suspension Culture of iPS Cells. *Lecture Notes in Networks and Systems*, **2019**, 283-289	0.5	1
30	Bioreactor-Based Culture of Plant Hairy Roots for Production and Recovery of Pigments **1992**, 296-298		1
29	Evaluation Index of Cellular States Accompanying the Life-Span Progression of Human Keratinocytes. *Kagaku Kogaku Ronbunshu*, **2011**, 37, 351-355	0.4	1
28	Kinetics on aggregate behaviors of human induced pluripotent stem cells in static suspension and rotating flow cultures. *Journal of Bioscience and Bioengineering*, **2020**, 129, 494-501	3.3	1
27	Multiobjective Dynamic Optimization of Slow Freezing Processes for Human Induced Pluripotent Stem Cells by Modeling Intracontainer Condition. *Computer Aided Chemical Engineering*, **2020**, 265-270	0.6	1
26	Exogenous FGF-2 prolongs endothelial connection in multilayered human skeletal muscle cell sheet. *Journal of Bioscience and Bioengineering*, **2021**, 131, 686-695	3.3	1
25	Integrated white-box models for designing freezing processes of human induced pluripotent stem cells considering diversity within a container. *Computer Aided Chemical Engineering*, **2019**, 877-882	0.6	1
24	Numerical Investigation on Suspension Culture in an Orbitally Shaken Cylindrical Bioreactor. *Journal of Chemical Engineering of Japan*, **2021**, 54, 351-357	0.8	1

23	Mechanobiological conceptual framework for assessing stem cell bioprocess effectiveness. *Biotechnology and Bioengineering*, **2021**, 118, 4537-4549	4.9	1
22	Non-invasive detection of matrix-producing chondrocytes in tissue-engineered cartilage by second-harmonic-generation microscopy. *Journal of Biomechanical Science and Engineering*, **2014**, 9, JBSE0007-JBSE0007	0.8	0
21	Bayesian Optimization for Hydrodynamic Characterization of a Cylindrical Orbitally Shaken Bioreactor with a Bump at the Bottom. *Journal of Chemical Engineering of Japan*, **2021**, 54, 493-499	0.8	0
20	Effect of initial seeding density on cell behavior-driven epigenetic memory and preferential lineage differentiation of human iPSCs. *Stem Cell Research*, **2021**, 56, 102534	1.6	0
19	Approach of resource expenditure estimation toward mechanization in the manufacturing of cell-based products.. *Regenerative Therapy*, **2022**, 20, 9-17	3.7	0
18	Development of instability analysis for the filling process of human-induced pluripotent stem cell products. *Biochemical Engineering Journal*, **2022**, 108506	4.2	0
17	Numerical simulation of particle dispersion in a pre-processing of a static culture. *MATEC Web of Conferences*, **2019**, 268, 01001	0.3	
16	Cell Production System Based on Flexible Modular Platform **2016**, 161-169		
15	Quality assessment of collagen substrate by morphological response of chondrocytes. *Journal of Bioscience and Bioengineering*, **2009**, 108, S34	3.3	
14	Automated Culture of Human Keratinocytes in Bioreactor with Image Analysis for Production of Autologous Skin Grafts. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **1998**, 31, 473-478		
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