Ikki Horiguchi

List of Publications by Year in Descending Order

23 papers	155 citations	8 h-index	11 g-index
24 ext. papers	197 ext. citations	3.7 avg, IF	3.6 L-index

#	Paper	IF	Citations
23	Development of instability analysis for the filling process of human-induced pluripotent stem cell products. *Biochemical Engineering Journal*, **2022**, 108506	4.2	0
22	A miniature dialysis-culture device allows high-density human-induced pluripotent stem cells expansion from growth factor accumulation. *Communications Biology*, **2021**, 4, 1316	6.7	1
21	Protection of human induced pluripotent stem cells against shear stress in suspension culture by Bingham plastic fluid. *Biotechnology Progress*, **2021**, 37, e3100	2.8	2
20	Model-based assessment of temperature profiles in slow freezing for human induced pluripotent stem cells. *Computers and Chemical Engineering*, **2021**, 144, 107150	4	9
19	Current Developments in the Stable Production of Human Induced Pluripotent Stem Cells. *Engineering*, **2021**, 7, 144-152	9.7	6
18	Production of homogenous size-controlled human induced pluripotent stem cell aggregates using ring-shaped culture vessel.. *Journal of Tissue Engineering and Regenerative Medicine*, **2021**,	4.4	1
17	Slow freezing process design for human induced pluripotent stem cells by modeling intracontainer variation. *Computers and Chemical Engineering*, **2020**, 132, 106597	4	11
16	Organization of liver organoids using Raschig ring-like micro-scaffolds and triple co-culture: Toward modular assembly-based scalable liver tissue engineering. *Medical Engineering and Physics*, **2020**, 76, 69-78	2.4	6
15	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
14	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
13	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
12	Size-dependent hepatic differentiation of human induced pluripotent stem cells spheroid in suspension culture. *Regenerative Therapy*, **2019**, 12, 66-73	3.7	10
11	Switching of Cell Proliferation/Differentiation in Thiol-Maleimide Clickable Microcapsules Triggered by in Situ Conjugation of Biomimetic Peptides. *Biomacromolecules*, **2019**, 20, 2350-2359	6.9	10
10	A novel tool for suspension culture of human induced pluripotent stem cells: Lysophospholipids as a cell aggregation regulator. *Regenerative Therapy*, **2019**, 12, 74-82	3.7	2
9	An Orbital Shaking Culture of Mammalian Cells in O-shaped Vessels to Produce Uniform Aggregates. *Journal of Visualized Experiments*, **2019**,	1.6	1
8	Enhanced Hepatic Differentiation of Human Induced Pluripotent Stem Cells Using Gas-Permeable Membrane. *Tissue Engineering - Part A*, **2019**, 25, 457-467	3.9	6
7	Physiological Microenvironmental Conditions in Different Scalable Culture Systems for Pluripotent Stem Cell Expansion and Differentiation. *Open Biomedical Engineering Journal*, **2019**, 13, 41-54	0.9	3

6	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
5	Effects of glucose, lactate and basic FGF as limiting factors on the expansion of human induced pluripotent stem cells. *Journal of Bioscience and Bioengineering*, **2018**, 125, 111-115	3.3	18
4	Serum replacement with albumin-associated lipids prevents excess aggregation and enhances growth of induced pluripotent stem cells in suspension culture. *Biotechnology Progress*, **2016**, 32, 1009-16	2.8	9
3	Alginate Encapsulation of Pluripotent Stem Cells Using a Co-axial Nozzle. *Journal of Visualized Experiments*, **2015**, e52835	1.6	5
2	Proliferation, morphology, and pluripotency of mouse induced pluripotent stem cells in three different types of alginate beads for mass production. *Biotechnology Progress*, **2014**, 30, 896-904	2.8	18
1	Development of bioactive hydrogel capsules for the 3D expansion of pluripotent stem cells in bioreactors. *Biomaterials Science*, **2014**, 2, 176-183	7.4	25