

# Ikki Horiguchi

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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 bioactive hydrogel capsules for the 3D expansion of pluripotent stem cells in bioreactors. <i>Biomaterials Science</i> , <b>2014</b> , 2, 176-183	7.4	25
22	Effects of glucose, lactate and basic FGF as limiting factors on the expansion of human induced pluripotent stem cells. <i>Journal of Bioscience and Bioengineering</i> , <b>2018</b> , 125, 111-115	3.3	18
21	Proliferation, morphology, and pluripotency of mouse induced pluripotent stem cells in three different types of alginate beads for mass production. <i>Biotechnology Progress</i> , <b>2014</b> , 30, 896-904	2.8	18
20	Slow freezing process design for human induced pluripotent stem cells by modeling intracontainer variation. <i>Computers and Chemical Engineering</i> , <b>2020</b> , 132, 106597	4	11
19	Size-dependent hepatic differentiation of human induced pluripotent stem cells spheroid in suspension culture. <i>Regenerative Therapy</i> , <b>2019</b> , 12, 66-73	3.7	10
18	Switching of Cell Proliferation/Differentiation in Thiol-Maleimide Clickable Microcapsules Triggered by in Situ Conjugation of Biomimetic Peptides. <i>Biomacromolecules</i> , <b>2019</b> , 20, 2350-2359	6.9	10
17	Serum replacement with albumin-associated lipids prevents excess aggregation and enhances growth of induced pluripotent stem cells in suspension culture. <i>Biotechnology Progress</i> , <b>2016</b> , 32, 1009-1016 <sup>2,8</sup>	2.8	9
16	Model-based assessment of temperature profiles in slow freezing for human induced pluripotent stem cells. <i>Computers and Chemical Engineering</i> , <b>2021</b> , 144, 107150	4	9
15	Enhanced Hepatic Differentiation of Human Induced Pluripotent Stem Cells Using Gas-Permeable Membrane. <i>Tissue Engineering - Part A</i> , <b>2019</b> , 25, 457-467	3.9	6
14	Organization of liver organoids using Raschig ring-like micro-scaffolds and triple co-culture: Toward modular assembly-based scalable liver tissue engineering. <i>Medical Engineering and Physics</i> , <b>2020</b> , 76, 69-78	2.4	6
13	Apoptosis-based method for determining lot sizes in the filling of human-induced pluripotent stem cells. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , <b>2020</b> , 14, 1641-1651	4.4	6
12	Current Developments in the Stable Production of Human Induced Pluripotent Stem Cells. <i>Engineering</i> , <b>2021</b> , 7, 144-152	9.7	6
11	Alginate Encapsulation of Pluripotent Stem Cells Using a Co-axial Nozzle. <i>Journal of Visualized Experiments</i> , <b>2015</b> , e52835	1.6	5
10	Suppression of time-dependent decay by controlling the redox balance of human induced pluripotent stem cells suspended in a cryopreservation solution. <i>Biochemical Engineering Journal</i> , <b>2020</b> , 155, 107465	4.2	4
9	Physiological Microenvironmental Conditions in Different Scalable Culture Systems for Pluripotent Stem Cell Expansion and Differentiation. <i>Open Biomedical Engineering Journal</i> , <b>2019</b> , 13, 41-54	0.9	3
8	A novel tool for suspension culture of human induced pluripotent stem cells: Lysophospholipids as a cell aggregation regulator. <i>Regenerative Therapy</i> , <b>2019</b> , 12, 74-82	3.7	2
7	Protection of human induced pluripotent stem cells against shear stress in suspension culture by Bingham plastic fluid. <i>Biotechnology Progress</i> , <b>2021</b> , 37, e3100	2.8	2

6	An Orbital Shaking Culture of Mammalian Cells in O-shaped Vessels to Produce Uniform Aggregates. <i>Journal of Visualized Experiments</i> , <b>2019</b> ,	1.6	1
5	A miniature dialysis-culture device allows high-density human-induced pluripotent stem cells expansion from growth factor accumulation. <i>Communications Biology</i> , <b>2021</b> , 4, 1316	6.7	1
4	Multiobjective Dynamic Optimization of Slow Freezing Processes for Human Induced Pluripotent Stem Cells by Modeling Intracontainer Condition. <i>Computer Aided Chemical Engineering</i> , <b>2020</b> , 265-270	0.6	1
3	Integrated white-box models for designing freezing processes of human induced pluripotent stem cells considering diversity within a container. <i>Computer Aided Chemical Engineering</i> , <b>2019</b> , 877-882	0.6	1
2	Production of homogenous size-controlled human induced pluripotent stem cell aggregates using ring-shaped culture vessel.. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , <b>2021</b> ,	4.4	1
1	Development of instability analysis for the filling process of human-induced pluripotent stem cell products. <i>Biochemical Engineering Journal</i> , <b>2022</b> , 108506	4.2	0