

Chikahiro Imashiro

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

334
citations

933264

10
h-index

887953

17
g-index

25
all docs

25
docs citations

25
times ranked

286
citing authors

#	ARTICLE	IF	CITATIONS
1	Enzyme-free release of adhered cells from standard culture dishes using intermittent ultrasonic traveling waves. <i>Communications Biology</i> , 2019, 2, 393.	2.0	49
2	Fundamental Technologies and Recent Advances of Cell-Sheet-Based Tissue Engineering. <i>International Journal of Molecular Sciences</i> , 2021, 22, 425.	1.8	41
3	Enzyme-free cell detachment mediated by resonance vibration with temperature modulation. <i>Biotechnology and Bioengineering</i> , 2017, 114, 2279-2288.	1.7	25
4	Detachment of cell sheets from clinically ubiquitous cell culture vessels by ultrasonic vibration. <i>Scientific Reports</i> , 2020, 10, 9468.	1.6	24
5	Focused surface acoustic wave locally removes cells from culture surface. <i>Lab on A Chip</i> , 2021, 21, 1299-1306.	3.1	22
6	Cell Patterning Method on a Clinically Ubiquitous Culture Dish Using Acoustic Pressure Generated From Resonance Vibration of a Disk-Shaped Ultrasonic Transducer. <i>IEEE Transactions on Biomedical Engineering</i> , 2019, 66, 111-118.	2.5	17
7	Formation of Large Scaffold-Free 3-D Aggregates in a Cell Culture Dish by Ultrasound Standing Wave Trapping. <i>Ultrasound in Medicine and Biology</i> , 2019, 45, 1306-1315.	0.7	15
8	Development of accurate temperature regulation culture system with metallic culture vessel demonstrates different thermal cytotoxicity in cancer and normal cells. <i>Scientific Reports</i> , 2021, 11, 21466.	1.6	15
9	Effective and Intact Cell Detachment from a Clinically Ubiquitous Culture Flask by Combining Ultrasonic Wave Exposure and Diluted Trypsin. <i>Biotechnology and Bioprocess Engineering</i> , 2019, 24, 536-543.	1.4	14
10	Propagating acoustic waves on a culture substrate regulate the directional collective cell migration. <i>Microsystems and Nanoengineering</i> , 2021, 7, 90.	3.4	13
11	Cell Patterning Method Using Resonance Vibration of a Metallic Cell Cultivation Substrate. <i>Advanced Biomedical Engineering</i> , 2016, 5, 142-148.	0.4	11
12	A Method for Collecting Single Cell Suspensions Using an Ultrasonic Pump. <i>IEEE Transactions on Biomedical Engineering</i> , 2018, 65, 224-231.	2.5	11
13	Method of localized removal of cells using a bolt-clamped Langevin transducer with an ultrasonic horn. <i>Engineering in Life Sciences</i> , 2019, 19, 575-583.	2.0	11
14	Homogenization of initial cell distribution by secondary flow of medium improves cell culture efficiency. <i>PLoS ONE</i> , 2020, 15, e0235827.	1.1	11
15	Collective cell migration of fibroblasts is affected by horizontal vibration of the cell culture dish. <i>Engineering in Life Sciences</i> , 2020, 20, 402-411.	2.0	11
16	Travelling ultrasound promotes vasculogenesis of three-dimensional monocultured human umbilical vein endothelial cells. <i>Biotechnology and Bioengineering</i> , 2021, 118, 3760-3769.	1.7	9
17	Perfusable System Using Porous Collagen Gel Scaffold Actively Provides Fresh Culture Media to a Cultured 3D Tissue. <i>International Journal of Molecular Sciences</i> , 2021, 22, 6780.	1.8	8
18	Acoustic streaming induced by MHz-frequency ultrasound extends the volume limit of cell suspension culture. <i>Journal of the Acoustical Society of America</i> , 2021, 149, 4180-4189.	0.5	7

#	ARTICLE	IF	CITATIONS
19	Low-frequency mechanical vibration induces apoptosis of A431 epidermoid carcinoma cells. Engineering in Life Sciences, 2020, 20, 232-238.	2.0	6
20	Direct Cell Counting Using Macro-Scale Smartphone Images of Cell Aggregates. IEEE Access, 2020, 8, 170033-170043.	2.6	5
21	Detachment of RAW264.7 macrophages from a culture dish using ultrasound excited by a Langevin transducer. Journal of Bioscience and Bioengineering, 2021, 131, 320-325.	1.1	5
22	Cell manipulation by nodal circle resonance vibration of a cell cultivation substrate. , 2015, , .		2
23	Titanium Culture Vessel Capable of Controlling Culture Temperature for Evaluation of Cell Thermotolerance. Materials Transactions, 2022, 63, 373-378.	0.4	2
24	Titanium Culture Vessel Capable of Controlling Culture Temperature for Evaluation of Cell Thermotolerance. Zairyo/Journal of the Society of Materials Science, Japan, 2021, 70, 479-485.	0.1	0