Yuya Morimoto

List of Publications by Citations

Source: https://exaly.com/author-pdf/9451857/yuya-morimoto-publications-by-citations.pdf
Version: 2024-04-20

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.
The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

59 papers	1,701 citations	19 h-index	41 g-index
85 ext. papers	2,101 ext. citations	8 avg, IF	5.33 L-index

#	Paper	IF	Citations
59	Biofabrication strategies for 3D in vitro models and regenerative medicine. *Nature Reviews Materials*, **2018**, 3, 21-37	73.3	317
58	Molding cell beads for rapid construction of macroscopic 3D tissue architecture. *Advanced Materials*, **2011**, 23, H90-4	24	245
57	Skin integrated with perfusable vascular channels on a chip. *Biomaterials*, **2017**, 116, 48-56	15.6	132
56	Three-dimensional neuron-muscle constructs with neuromuscular junctions. *Biomaterials*, **2013**, 34, 9413-19	15.6	129
55	Biohybrid robot powered by an antagonistic pair of skeletal muscle tissues. *Science Robotics*, **2018**, 3,	18.6	87
54	Monodisperse cell-encapsulating peptide microgel beads for 3D cell culture. *Langmuir*, **2010**, 26, 2645-9	4	83
53	Three-dimensional axisymmetric flow-focusing device using stereolithography. *Biomedical Microdevices*, **2009**, 11, 369-77	3.7	74
52	Monodisperse semi-permeable microcapsules for continuous observation of cells. *Lab on A Chip*, **2009**, 9, 2217-23	7.2	69
51	Millimeter-sized neural building blocks for 3D heterogeneous neural network assembly. *Advanced Healthcare Materials*, **2013**, 2, 1564-70	10.1	64
50	Point-, line-, and plane-shaped cellular constructs for 3D tissue assembly. *Advanced Drug Delivery Reviews*, **2015**, 95, 29-39	18.5	49
49	Three-dimensional cell culture based on microfluidic techniques to mimic living tissues. *Biomaterials Science*, **2013**, 1, 257-264	7.4	44
48	Human induced pluripotent stem cell-derived fiber-shaped cardiac tissue on a chip. *Lab on A Chip*, **2016**, 16, 2295-301	7.2	36
47	Pesticide vapor sensing using an aptamer, nanopore, and agarose gel on a chip. *Lab on A Chip*, **2017**, 17, 2421-2425	7.2	32
46	Formation of contractile 3D bovine muscle tissue for construction of millimetre-thick cultured steak. *Npj Science of Food*, **2021**, 5, 6	6.3	30
45	Construction of 3D, layered skin, microsized tissues by using cell beads for cellular function analysis. *Advanced Healthcare Materials*, **2013**, 2, 261-5	10.1	29
44	Biohybrid robot with skeletal muscle tissue covered with a collagen structure for moving in air. *APL Bioengineering*, **2020**, 4, 026101	6.6	26
43	Three-dimensional printed microfluidic modules for design changeable coaxial microfluidic devices. *Sensors and Actuators B: Chemical*, **2018**, 274, 491-500	8.5	25

42	Mass Production of Cell-Laden Calcium Alginate Particles with Centrifugal Force. *Advanced Healthcare Materials*, **2017**, 6, 1601375	10.1	21
41	Multipoint Bending and Shape Retention of a Pneumatic Bending Actuator by a Variable Stiffness Endoskeleton. *Soft Robotics*, **2018**, 5, 718-725	9.2	21
40	Self-Propelled Motion of Monodisperse Underwater Oil Droplets Formed by a Microfluidic Device. *Langmuir*, **2017**, 33, 5393-5397	4	18
39	Perfusable and stretchable 3D culture system for skin-equivalent. *Biofabrication*, **2018**, 11, 011001	10.5	18
38	Three-dimensional contractile muscle tissue consisting of human skeletal myocyte cell line. *Experimental Cell Research*, **2018**, 370, 168-173	4.2	17
37	A hybrid axisymmetric flow-focusing device for monodisperse picoliter droplets. *Journal of Micromechanics and Microengineering*, **2011**, 21, 054031	2	17
36	Centrifuge-based step emulsification device for simple and fast generation of monodisperse picoliter droplets. *Sensors and Actuators B: Chemical*, **2019**, 301, 127164	8.5	16
35	Liquid-filled tunable lenticular lens. *Journal of Micromechanics and Microengineering*, **2015**, 25, 035030	2	12
34	Biohybrid device with antagonistic skeletal muscle tissue for measurement of contractile force. *Advanced Robotics*, **2019**, 33, 208-218	1.7	11
33	Portable biohybrid odorant sensors using cell-laden collagen micropillars. *Lab on A Chip*, **2019**, 19, 1971-1976	7.2	8
32	Vessel-like channels supported by poly-l-lysine tubes. *Journal of Bioscience and Bioengineering*, **2016**, 122, 753-757	3.3	8
31	Cell-Based Biohybrid Sensor Device for Chemical Source Direction Estimation. *Cyborg and Bionic Systems*, **2021**, 2021, 1-9	0	7
30	Formation of Branched and Chained Alginate Microfibers Using Theta-Glass Capillaries. *Micromachines*, **2018**, 9,	3.3	6
29	Pneumatic balloon actuator with tunable bending points **2015**,		5
28	Balloon Pump with Floating Valves for Portable Liquid Delivery. *Micromachines*, **2016**, 7,	3.3	5
27	Microfluidic system for applying shear flow to endothelial cells on culture insert with collagen vitrigel membrane. *Sensors and Actuators B: Chemical*, **2021**, 348, 130675	8.5	4
26	A dynamic microarray device for pairing and electrofusion of giant unilamellar vesicles. *Sensors and Actuators B: Chemical*, **2020**, 311, 127922	8.5	3
25	Transendothelial electrical resistance (TEER) measurement system of 3D tubular vascular channel **2018**,		3

24	**2013**,		3
23	An inhalation anesthetic device for stereotaxic operation on mouse pups. *Journal of Neuroscience Methods*, **2015**, 243, 63-7	3	2
22	Centrifuge-based membrane emulsification toward high-throughput generation of monodisperse liposomes **2017**,		2
21	Electrical detection of pesticide vapors by biological nanopores with DNA aptamers **2015**,		2
20	3D printed microfluidic devices for lipid bilayer recordings.. *Lab on A Chip*, **2022**,	7.2	2
19	A swimming robot actuated by cultured skeletal muscle tissue. *Transactions of the JSME (in Japanese)*, **2020**, 86, 20-00180-20-00180	0.2	2
18	Skeletal muscle-adipose cocultured tissue fabricated using cell-laden microfibers and a hydrogel sheet. *Biotechnology and Bioengineering*, **2021**, 119, 636	4.9	2
17	**2017**,		1
16	Parylene based flexible glucose sensor using glucose-responsive fluorescent hydrogel **2017**,		1
15	Formation of vessel-like channel using alginate fiber as a sacrificial structure **2017**,		1
14	Temporal Observation of Adipocyte Microfiber Using Anchoring Device. *Micromachines*, **2019**, 10,	3.3	1
13	PDMS balloon pump with a microfluidic regulator for the continuous drug supply in low flow rate **2015**,		1
12	**2012**,		1
11	A Cylindrical Molding Method for the Biofabrication of Plane-Shaped Skeletal Muscle Tissue. *Micromachines*, **2021**, 12,	3.3	1
10	Biohybrid Robot Powered by Muscle Tissues **2020**, 395-416		1
9	Biohybrid Soft Robots Driven by Contractions of Skeletal Muscle Tissue. *Journal of Robotics and Mechatronics*, **2022**, 34, 260-262	0.7	1
8	Functional analysis of human brain endothelium using a microfluidic device integrating a cell culture insert.. *APL Bioengineering*, **2022**, 6, 016103	6.6	0
7	3D-Printed Centrifugal Pump Driven by Magnetic Force in Applications for Microfluidics in Biological Analysis. *Advanced Healthcare Materials*,2200593	10.1	0

List of Publications

6	In Vitro Tissue Construction for Organ-on-a-Chip Applications. *Bioanalysis*, **2019**, 247-274	0.5
5	Microfluidic Formation of Cell-Laden Hydrogel Modules for Tissue Engineering **2013**, 183-201	
4	Living dermis as a self-repairable coverage material for robots. *The Proceedings of the Symposium on Micro-Nano Science and Technology*, **2020**, 2020.11, 28A3-MN311	0
3	Application of fluid shear stress to engineered vascular wall using microchannel. *The Proceedings of the Symposium on Micro-Nano Science and Technology*, **2019**, 2019.10, 20am2PN307	0
2	Construction and Application of Three-Dimensional Cellular Tissues Assembled by Point-, Line-, and Plane-Shaped Cellular Building Blocks. *IEEJ Transactions on Sensors and Micromachines*, **2017**, 137, 322-327	0.2
1	Biohybrid Robot. *Journal of the Robotics Society of Japan*, **2021**, 39, 310-313	0.1