

# Yuya Morimoto

## List of Publications by Year in Descending Order

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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.

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	3D printed microfluidic devices for lipid bilayer recordings.. <i>Lab on A Chip</i> , <b>2022</b> ,	7.2	2
58	Functional analysis of human brain endothelium using a microfluidic device integrating a cell culture insert.. <i>APL Bioengineering</i> , <b>2022</b> , 6, 016103	6.6	0
57	Biohybrid Soft Robots Driven by Contractions of Skeletal Muscle Tissue. <i>Journal of Robotics and Mechatronics</i> , <b>2022</b> , 34, 260-262	0.7	1
56	Skeletal muscle-adipose cocultured tissue fabricated using cell-laden microfibers and a hydrogel sheet. <i>Biotechnology and Bioengineering</i> , <b>2021</b> , 119, 636	4.9	2
55	A Cylindrical Molding Method for the Biofabrication of Plane-Shaped Skeletal Muscle Tissue. <i>Micromachines</i> , <b>2021</b> , 12,	3.3	1
54	Formation of contractile 3D bovine muscle tissue for construction of millimetre-thick cultured steak. <i>Npj Science of Food</i> , <b>2021</b> , 5, 6	6.3	30
53	Biohybrid Robot. <i>Journal of the Robotics Society of Japan</i> , <b>2021</b> , 39, 310-313	0.1	
52	Cell-Based Biohybrid Sensor Device for Chemical Source Direction Estimation. <i>Cyborg and Bionic Systems</i> , <b>2021</b> , 2021, 1-9	0	7
51	Microfluidic system for applying shear flow to endothelial cells on culture insert with collagen vitrigel membrane. <i>Sensors and Actuators B: Chemical</i> , <b>2021</b> , 348, 130675	8.5	4
50	A dynamic microarray device for pairing and electrofusion of giant unilamellar vesicles. <i>Sensors and Actuators B: Chemical</i> , <b>2020</b> , 311, 127922	8.5	3
49	A swimming robot actuated by cultured skeletal muscle tissue. <i>Transactions of the JSME (in Japanese)</i> , <b>2020</b> , 86, 20-00180-20-00180	0.2	2
48	Living dermis as a self-repairable coverage material for robots. <i>The Proceedings of the Symposium on Micro-Nano Science and Technology</i> , <b>2020</b> , 2020.11, 28A3-MN311	0	
47	Biohybrid Robot Powered by Muscle Tissues <b>2020</b> , 395-416		1
46	Biohybrid robot with skeletal muscle tissue covered with a collagen structure for moving in air. <i>APL Bioengineering</i> , <b>2020</b> , 4, 026101	6.6	26
45	Centrifuge-based step emulsification device for simple and fast generation of monodisperse picoliter droplets. <i>Sensors and Actuators B: Chemical</i> , <b>2019</b> , 301, 127164	8.5	16
44	Temporal Observation of Adipocyte Microfiber Using Anchoring Device. <i>Micromachines</i> , <b>2019</b> , 10,	3.3	1
43	In Vitro Tissue Construction for Organ-on-a-Chip Applications. <i>Bioanalysis</i> , <b>2019</b> , 247-274	0.5	

42	Portable biohybrid odorant sensors using cell-laden collagen micropillars. <i>Lab on A Chip</i> , <b>2019</b> , 19, 1971-1976	1.7	8
41	Biohybrid device with antagonistic skeletal muscle tissue for measurement of contractile force. <i>Advanced Robotics</i> , <b>2019</b> , 33, 208-218	1.7	11
40	Application of fluid shear stress to engineered vascular wall using microchannel. <i>The Proceedings of the Symposium on Micro-Nano Science and Technology</i> , <b>2019</b> , 2019.10, 20am2PN307	0	
39	Transendothelial electrical resistance (TEER) measurement system of 3D tubular vascular channel <b>2018</b> ,		3
38	Biofabrication strategies for 3D in vitro models and regenerative medicine. <i>Nature Reviews Materials</i> , <b>2018</b> , 3, 21-37	73.3	317
37	Three-dimensional contractile muscle tissue consisting of human skeletal myocyte cell line. <i>Experimental Cell Research</i> , <b>2018</b> , 370, 168-173	4.2	17
36	Three-dimensional printed microfluidic modules for design changeable coaxial microfluidic devices. <i>Sensors and Actuators B: Chemical</i> , <b>2018</b> , 274, 491-500	8.5	25
35	Formation of Branched and Chained Alginate Microfibers Using Theta-Glass Capillaries. <i>Micromachines</i> , <b>2018</b> , 9,	3.3	6
34	Perfusable and stretchable 3D culture system for skin-equivalent. <i>Biofabrication</i> , <b>2018</b> , 11, 011001	10.5	18
33	Multipoint Bending and Shape Retention of a Pneumatic Bending Actuator by a Variable Stiffness Endoskeleton. <i>Soft Robotics</i> , <b>2018</b> , 5, 718-725	9.2	21
32	Biohybrid robot powered by an antagonistic pair of skeletal muscle tissues. <i>Science Robotics</i> , <b>2018</b> , 3,	18.6	87
31	<b>2017</b> ,		1
30	Parylene based flexible glucose sensor using glucose-responsive fluorescent hydrogel <b>2017</b> ,		1
29	Formation of vessel-like channel using alginate fiber as a sacrificial structure <b>2017</b> ,		1
28	Mass Production of Cell-Laden Calcium Alginate Particles with Centrifugal Force. <i>Advanced Healthcare Materials</i> , <b>2017</b> , 6, 1601375	10.1	21
27	Self-Propelled Motion of Monodisperse Underwater Oil Droplets Formed by a Microfluidic Device. <i>Langmuir</i> , <b>2017</b> , 33, 5393-5397	4	18
26	Skin integrated with perfusable vascular channels on a chip. <i>Biomaterials</i> , <b>2017</b> , 116, 48-56	15.6	132
25	Pesticide vapor sensing using an aptamer, nanopore, and agarose gel on a chip. <i>Lab on A Chip</i> , <b>2017</b> , 17, 2421-2425	7.2	32

24	Centrifuge-based membrane emulsification toward high-throughput generation of monodisperse liposomes <b>2017</b> ,		2
23	Construction and Application of Three-Dimensional Cellular Tissues Assembled by Point-, Line-, and Plane-Shaped Cellular Building Blocks. <i>IEEJ Transactions on Sensors and Micromachines</i> , <b>2017</b> , 137, 322-327	0.2	
22	Balloon Pump with Floating Valves for Portable Liquid Delivery. <i>Micromachines</i> , <b>2016</b> , 7,	3.3	5
21	Human induced pluripotent stem cell-derived fiber-shaped cardiac tissue on a chip. <i>Lab on A Chip</i> , <b>2016</b> , 16, 2295-301	7.2	36
20	Vessel-like channels supported by poly-l-lysine tubes. <i>Journal of Bioscience and Bioengineering</i> , <b>2016</b> , 122, 753-757	3.3	8
19	Liquid-filled tunable lenticular lens. <i>Journal of Micromechanics and Microengineering</i> , <b>2015</b> , 25, 035030	2	12
18	Point-, line-, and plane-shaped cellular constructs for 3D tissue assembly. <i>Advanced Drug Delivery Reviews</i> , <b>2015</b> , 95, 29-39	18.5	49
17	An inhalation anesthetic device for stereotaxic operation on mouse pups. <i>Journal of Neuroscience Methods</i> , <b>2015</b> , 243, 63-7	3	2
16	Pneumatic balloon actuator with tunable bending points <b>2015</b> ,		5
15	Electrical detection of pesticide vapors by biological nanopores with DNA aptamers <b>2015</b> ,		2
14	PDMS balloon pump with a microfluidic regulator for the continuous drug supply in low flow rate <b>2015</b> ,		1
13	Millimeter-sized neural building blocks for 3D heterogeneous neural network assembly. <i>Advanced Healthcare Materials</i> , <b>2013</b> , 2, 1564-70	10.1	64
12	Microfluidic Formation of Cell-Laden Hydrogel Modules for Tissue Engineering <b>2013</b> , 183-201		
11	Three-dimensional neuron-muscle constructs with neuromuscular junctions. <i>Biomaterials</i> , <b>2013</b> , 34, 9413-9423	9.6	129
10	<b>2013</b> ,		3
9	Three-dimensional cell culture based on microfluidic techniques to mimic living tissues. <i>Biomaterials Science</i> , <b>2013</b> , 1, 257-264	7.4	44
8	Construction of 3D, layered skin, micro-sized tissues by using cell beads for cellular function analysis. <i>Advanced Healthcare Materials</i> , <b>2013</b> , 2, 261-5	10.1	29
7	<b>2012</b> ,		1

6	Molding cell beads for rapid construction of macroscopic 3D tissue architecture. <i>Advanced Materials</i> , <b>2011</b> , 23, H90-4	24	245
5	A hybrid axisymmetric flow-focusing device for monodisperse picoliter droplets. <i>Journal of Micromechanics and Microengineering</i> , <b>2011</b> , 21, 054031	2	17
4	Monodisperse cell-encapsulating peptide microgel beads for 3D cell culture. <i>Langmuir</i> , <b>2010</b> , 26, 2645-9	4	83
3	Three-dimensional axisymmetric flow-focusing device using stereolithography. <i>Biomedical Microdevices</i> , <b>2009</b> , 11, 369-77	3-7	74
2	Monodisperse semi-permeable microcapsules for continuous observation of cells. <i>Lab on A Chip</i> , <b>2009</b> , 9, 2217-23	7-2	69
1	3D-Printed Centrifugal Pump Driven by Magnetic Force in Applications for Microfluidics in Biological Analysis. <i>Advanced Healthcare Materials</i> , 2200593	10-1	0