

Masaru Takeuchi

List of Publications by Year in descending order

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86
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times ranked

562
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#	ARTICLE	IF	CITATIONS
1	Hepatic Vascular Network Construction Using Magnetic Fields. , 2022, , 285-304.		1
2	Intuitive Remote Robotic Nasal Sampling by Orientation Control With Variable RCM in Limited Space. IEEE Transactions on Medical Robotics and Bionics, 2022, 4, 646-655.	3.2	2
3	Fabrication of PEDOT:PSS based Soft Sensor for Feedback Control of Modular Bio-actuator. , 2022, , .		0
4	An immersive micro-manipulation system using real-time 3D imaging microscope and 3D operation interface for high-speed and accurate micro-manipulation. ROBOMECH Journal, 2022, 9, .	1.6	0
5	Micromanipulation System That Improves Depth Visibility via Real-time 3D Image Presentation. Journal of the Robotics Society of Japan, 2021, 39, 467-470.	0.1	0
6	Development of Cultured Muscles with Tendon Structures for Modular Bio-Actuators. Micromachines, 2021, 12, 379.	2.9	10
7	Microinjection System to Enable Real-Time 3D Image Presentation Through Focal Position Adjustment. IEEE Robotics and Automation Letters, 2021, 6, 4025-4031.	5.1	5
8	View-expansive Microscope System with Real-time High-resolution Imaging for Simplified Microinjection Experiments. , 2021, , .		1
9	Construction of Hepatic-Lobule-Like 3-D Vascular Network in Cellular Structure by Manipulating Magnetic Fibers. IEEE/ASME Transactions on Mechatronics, 2020, 25, 477-486.	5.8	6
10	Multilayered Artificial Dura-Mater Models for a Minimally Invasive Brain Surgery Simulator. Applied Sciences (Switzerland), 2020, 10, 9000.	2.5	6
11	On-Chip Fabrication of Cell-Attached Microstructures using Photo-Cross-Linkable Biodegradable Hydrogel. Journal of Functional Biomaterials, 2020, 11, 18.	4.4	6
12	Head-Mounted Display-Based Microscopic Imaging System with Customizable Field Size and Viewpoint. Sensors, 2020, 20, 1967.	3.8	7
13	Visual Feedback Control of a Rat Ankle Angle Using a Wirelessly Powered Two-Channel Neurostimulator. Sensors, 2020, 20, 2210.	3.8	5
14	Magnetic self-assembly of toroidal hepatic microstructures for micro-tissue fabrication. Biomedical Materials (Bristol), 2020, 15, 055001.	3.3	4
15	Microscopic Tracking System for Simultaneous Expansive Observations of Multiple Micro-targets Based on View-expansive Microscope. , 2019, , .		6
16	Assembly of Multilayered Hepatic Lobule-like Vascular Network by using Heptapole Magnetic Tweezer. , 2019, , .		2
17	On-Chip Construction of Multilayered Hydrogel Microtubes for Engineered Vascular-Like Microstructures. Micromachines, 2019, 10, 840.	2.9	10
18	View Expansion Microscope based on Viewpoint Movement using a Galvano Mirror and Focus Adjustment using an Electrically Tunable Lens. The Proceedings of JSME Annual Conference on Robotics and Mechatronics (Robomec), 2019, 2019, 2A1-M01.	0.0	1

#	ARTICLE	IF	CITATIONS
19	Construction of Hepatic Lobule-Like Vascular Network by Using Magnetic Fields. , 2018, , .		3
20	Wireless power supply device that realizes muscle contraction by peripheral nerve stimulation. The Proceedings of Conference of Tokai Branch, 2018, 2018.67, 619.	0.0	0
21	3D SYSTEM CELL ENGINEERING USING MICRO“NANOROBOTICS. , 2018, , 255-273.		0
22	Three-dimensional hepatic lobule-like tissue constructs using cell-microcapsule technology. Acta Biomaterialia, 2017, 50, 178-187.	8.3	48
23	Tapered Microfluidic for Continuous Micro-Object Separation Based on Hydrodynamic Principle. IEEE Transactions on Biomedical Circuits and Systems, 2017, 11, 1413-1421.	4.0	5
24	Real-time microscopic video shooting using a view-expanded microscope system. , 2017, , .		0
25	In vitro mimic of hepatic lobule tissue using ca-alginate cell-containing hydrogel modules. , 2017, , .		0
26	Magnetic self-assembly of toroidal microstructures by shaking. , 2017, , .		0
27	In vivo test of inductively powered neurostimulator. , 2017, , .		0
28	High-precision microinjection of microbeads into C. elegans trapped in a suction microchannel. , 2017, , .		5
29	Electrical Impedance Spectroscopy for Detection of Cells in Suspensions Using Microfluidic Device with Integrated Microneedles. Applied Sciences (Switzerland), 2017, 7, 170.	2.5	31
30	Fabrication of multilayered hepatic lobule tissues using Ca-alginate hydrogel platforms. , 2017, , .		0
31	Fabrication of dry dura mater models for medical surgical simulator. , 2017, , .		2
32	Higher precision rotational manipulation of C. elegans by microchannel. , 2017, , .		0
33	A Microfluidic Device for Hydrodynamic Trapping and Manipulation Platform of a Single Biological Cell. Applied Sciences (Switzerland), 2016, 6, 40.	2.5	15
34	Microfluidic Device to Measure the Speed of C. elegans Using the Resistance Change of the Flexible Electrode. Micromachines, 2016, 7, 50.	2.9	13
35	Gel-fibers reeling system (Gel-FRS) with embedding biological cells for small diameter cellular vessels. Transactions of the JSME (in Japanese), 2016, 82, 15-00547-15-00547.	0.2	0
36	Self-assembly of toroidal magnetic microstructures towards in vitro cell structures. , 2016, , .		6

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37	Self-assembly of magnetized microstructures for in vitro cell systems. , 2016, , .		1
38	Assembly of hepatic lobule-like microtissue with repetitive single-step contact manipulation. , 2016, , .		0
39	Fabrication of dura mater model for medical simulator. , 2016, , .		0
40	Cell sheets fabrication with mimicking morphology of liver lobule tissue by electrodeposition. , 2016, , .		0
41	Fabrication of brain tumor for medical simulator. , 2016, , .		0
42	Shape-controlled high cell-density microcapsules by electrodeposition. Acta Biomaterialia, 2016, 37, 93-100.	8.3	37
43	Novel In situ nanomanipulation integrated with SEM-CT imaging system. , 2016, , .		3
44	Micromanipulation for Coiling Microfluidic Spun Alginate Microfibers by Magnetically Guided System. IEEE Robotics and Automation Letters, 2016, 1, 808-813.	5.1	8
45	Hybrid stent device of flow-diverting effect and stent-assisted coil embolization formed by fractal structure. Medical and Biological Engineering and Computing, 2016, 54, 831-841.	2.8	6
46	In situ nanomanipulation with 3D SEM-CT observation inside environmental SEM. , 2015, , .		1
47	Fabrication of hepatic lobule model based on electrodeposition. , 2015, , .		0
48	Microchannels fabrication by alginate fiber molding method. , 2015, , .		0
49	Local guiding of C. elegans inside micro-channel for injection operation. , 2015, , .		1
50	Fabrication of micro flexible electrode to stimulate peripheral nerve for rodent model. , 2015, , .		0
51	Electrodeposition of cell-laden alginate-PLL hydrogel structures for spatially selective entrapment. , 2015, , .		3
52	Shape-controlled production of alginate hydrogel-poly-L-lysine microcapsules based on electrodeposition method: Shape-controlled microcapsules. , 2015, , .		0
53	Aqueous imaging by SEM-CT system inside environmental-SEM. , 2015, , .		2
54	3D microchannel networks by melting alginate hydrogel fibers for cell structures. , 2015, , .		0

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55	On-chip fabrication and magnetic force estimation of peapod-like hybrid microfibers using a microfluidic device. <i>Microfluidics and Nanofluidics</i> , 2015, 18, 1177-1187.	2.2	36
56	Fluidic self-assembly of multilayered tubular microstructures by axis translation inside two-layered microfluidic devices. , 2014, , .		1
57	Construction of vascular-like microtubes via fluidic axis-translation self-assembly based on multiple hydrogels. , 2014, , .		2
58	Catalytic driven micro-nanorobots fabricated by direct laser writing. , 2014, , .		1
59	SEM-CT observation of bone from mice using environmental-SEM. , 2014, , .		0
60	Microassembly of spheroids by thermoresponsive gel probe. , 2014, , .		0
61	Electrodeposition of alginate hydrogel for spatially selective entrapment of biological cells. , 2014, , .		0
62	Improved Laser Manipulation for On-chip Fabricated Microstructures Based on Solution Replacement and Its Application in Single Cell Analysis. <i>International Journal of Advanced Robotic Systems</i> , 2014, 11, 11.	2.1	12
63	Three dimensional multi-cell spheroids assembly using thermoresponsive Gel probe. , 2014, , .		0
64	On-chip self-assembly of cell embedded microstructures to vascular-like microtubes. <i>Lab on A Chip</i> , 2014, 14, 1151.	6.0	92
65	Self-Actuating Asymmetric Platinum Catalytic Mobile Nanorobot. <i>IEEE Transactions on Robotics</i> , 2014, 30, 33-39.	10.3	26
66	On-chip fabrication of magnetic alginate hydrogel microfibers by multilayered pneumatic microvalves. <i>Microfluidics and Nanofluidics</i> , 2014, 17, 457-468.	2.2	21
67	Cross-sectional imaging of <i>C. elegans</i> by SEM-CT using Environmental SEM for nanomanipulation. , 2014, , .		1
68	Handling of micro objects using phase transition of thermoresponsive polymer. <i>Journal of Micro-Bio Robotics</i> , 2013, 8, 53-64.	2.1	13
69	Magnetic manipulation for spatially patterned alginate hydrogel microfibers. , 2013, , .		1
70	Fabrication of multilayered tube-shaped microstructures embedding cells inside microfluidic devices. , 2013, , .		1
71	Micro-CT imaging of <i>Caenorhabditis elegans</i> under environmental-SEM. , 2013, , .		0
72	Long survival observation of <i>C. elegans</i> inside Environmental SEM for nanomanipulations. , 2013, , .		0

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73	Assembly techniques for artificial small diameter blood vessel structures. , 2013, , .		0
74	Fluidic assembly of multilayered tubular microstructures inside 2-layered microfluidic devices. , 2013, , .		0
75	Micro-sorting device by a micro-channel with multiple-size pores. , 2013, , .		0
76	Cell culture inside thermoresponsive gels towards 3D cell structures. , 2013, , .		0
77	Microstructuring thermoresponsive gel using hysteresis towards 3D cell assembly. , 2013, , .		0
78	Fabrication and assembly of multi-layered microstructures embedding cells inside microfluidic devices. , 2013, , .		1
79	Fabrication of thermoresponsive gel blocks using hysteresis towards cell assembly. , 2013, , .		1
80	Preparation and characterization of magnetic PEGDA beads for enhanced construction of hydrogel assembly. , 2013, , .		0
81	Probe device for soft handling of single cells using thermoresponsive polymer. , 2011, , .		2
82	Semi-closed microchip for probe manipulation and the target cell harvesting. , 2009, , .		8
83	Thermal gel actuated device for spout/suction inside semi-closed microchip. , 2009, , .		1
84	Semi-Closed Microchip for Probe Manipulation and Its Application for Single Cell Analysis(Mechanical) Tj ETQqO 0 0 rgBT /Overlock 10 T Engineers, Part C, 2009, 75, 3261-3266.	0.2	4
85	Semi-closed Microchip for Probe Manipulation and Its Biological Application. , 2008, , .		1