Michinao Hashimoto

List of Publications by Year in Descending Order

61 papers	2,242 citations	21 h-index	47 g-index
67 ext. papers	2,736 ext. citations	8 avg, IF	5.32 L-index

#	Paper	IF	Citations
61	Digital Light Processing Based Bioprinting with Composable Gradients (Adv. Mater. 1/2022). *Advanced Materials*, **2022**, 34, 2270010	24	1
60	Design and fabrication of micro/nanofluidics devices and systems.. *Progress in Molecular Biology and Translational Science*, **2022**, 186, 15-58	4	
59	Geometrical control of degradation and cell delivery in 3D printed nanocellulose hydrogels. *Materials Today Communications*, **2022**, 30, 103023	2.5	2
58	Systematic Engineering approach for optimization of multi-component alternative protein-fortified 3D printing food Ink. *Food Hydrocolloids*, **2022**, 131, 107803	10.6	1
57	Three-Dimensional Printing of Food Foams Stabilized by Hydrocolloids for Hydration in Dysphagia. *International Journal of Bioprinting*, **2021**, 7, 393	6.2	4
56	Digital Light Processing Based Bioprinting with Composable Gradients. *Advanced Materials*, **2021**, e2107038	24	15
55	3D-PAD: Paper-Based Analytical Devices with Integrated Three-Dimensional Features. *Biosensors*, **2021**, 11,	5.9	6
54	Evaluation of 3D-printed molds for fabrication of non-planar microchannels. *Biomicrofluidics*, **2021**, 15, 024111	3.2	2
53	Evaluation of Lateral and Vertical Dimensions of Micromolds Fabricated by a PolyJet Printer. *Micromachines*, **2021**, 12,	3.3	1
52	Method to Reduce the Contact Resistivity between Galinstan and a Copper Electrode for Electrical Connection in Flexible Devices. *ACS Applied Materials & Interfaces*, **2021**, 13, 18247-18254	9.5	3
51	Effect of Oil Content on the Printability of Coconut Cream. *International Journal of Bioprinting*, **2021**, 7, 354	6.2	3
50	Ultra-Deformable and Tissue-Adhesive Liquid Metal Antennas with High Wireless Powering Efficiency. *Advanced Materials*, **2021**, 33, e2008062	24	22
49	3D food printing of fresh vegetables using food hydrocolloids for dysphagic patients. *Food Hydrocolloids*, **2021**, 114, 106546	10.6	52
48	Freeform Polymer Precipitation in Microparticulate Gels. *ACS Applied Polymer Materials*, **2021**, 3, 908-919	4.3	3
47	Bridging the academia-to-industry gap: organ-on-a-chip platforms for safety and toxicology assessment. *Trends in Pharmacological Sciences*, **2021**, 42, 715-728	13.2	10
46	Highly-customizable 3D-printed peristaltic pump kit. *HardwareX*, **2021**, 10, e00202	2.7	6
45	Design and fabrication of a flexible glucose sensing platform toward rapid battery-free detection of hyperglycaemia. *Journal of Materials Chemistry C*, **2021**, 9, 7336-7344	7.1	1

44	Embedded Ink Writing (EIW) of Polysiloxane Inks. *ACS Applied Materials & Interfaces*, **2020**, 12, 23565-23575	9.5	9
43	Preheating of Gelatin Improves its Printability with Transglutaminase in Direct Ink Writing 3D Printing. *International Journal of Bioprinting*, **2020**, 6, 296	6.2	5
42	Fabrication of Complex 3D Fluidic Networks via Modularized Stereolithography. *Advanced Engineering Materials*, **2020**, 22, 1901109	3.5	14
41	Fabrication of paper microfluidic devices using a toner laser printer.. *RSC Advances*, **2020**, 10, 29797-29807	3.7	17
40	ECM-based microfluidic gradient generator for tunable surface environment by interstitial flow. *Biomicrofluidics*, **2020**, 14, 044106	3.2	6
39	3D printing of milk-based product.. *RSC Advances*, **2020**, 10, 29821-29828	3.7	17
38	ECM-based microchannel for culturing in vitro vascular tissues with simultaneous perfusion and stretch. *Lab on A Chip*, **2020**, 20, 1917-1927	7.2	15
37	ECM-based Stretchable Microfluidic System for in vitro 3D Tissue Culture **2019**,		1
36	3D printed fittings and fluidic modules for customizable droplet generators.. *RSC Advances*, **2019**, 9, 2823-2828	3.7	17
35	Self-aligning Tetris-Like (TILE) modular microfluidic platform for mimicking multi-organ interactions. *Lab on A Chip*, **2019**, 19, 2178-2191	7.2	34
34	Patterning and Modeling Three-Dimensional Microfluidic Devices Fabricated on a Single Sheet of Paper. *Analytical Chemistry*, **2019**, 91, 8298-8303	7.8	18
33	Self-assembly of droplets in three-dimensional microchannels. *Soft Matter*, **2019**, 15, 4244-4254	3.6	9
32	Fabrication of integrated microfluidic devices by direct ink writing (DIW) 3D printing. *Sensors and Actuators B: Chemical*, **2019**, 297, 126609	8.5	37
31	Immersion precipitation 3D printing (ip3DP). *Materials Horizons*, **2019**, 6, 1834-1844	14.4	17
30	. *IEEE Access*, **2019**, 7, 90304-90315	3.5	8
29	Chocolate-based Ink Three-dimensional Printing (Ci3DP). *Scientific Reports*, **2019**, 9, 14178	4.9	36
28	Syringe-Injectable, Self-Expandable, and Ultraconformable Magnetic Ultrathin Films. *ACS Applied Materials & Interfaces*, **2019**, 11, 41770-41779	9.5	6
27	Highly stretchable hydrogels for UV curing based high-resolution multimaterial 3D printing. *Journal of Materials Chemistry B*, **2018**, 6, 3246-3253	7.3	96

26	Fabrication of 3D Microfluidic Channels and In-Channel Features Using 3D Printed, Water-Soluble Sacrificial Mold. *Macromolecular Materials and Engineering*, **2018**, 303, 1700484	3.9	33
25	Dual Sacrificial Molding: Fabricating 3D Microchannels with Overhang and Helical Features. *Micromachines*, **2018**, 9,	3.3	16
24	Rapid prototyping of fluoropolymer microchannels by xurography for improved solvent resistance. *Biomicrofluidics*, **2018**, 12, 064105	3.2	9
23	Strong tissue glue with tunable elasticity. *Acta Biomaterialia*, **2017**, 53, 93-99	10.8	26
22	Ground-state conformers enable bright single-fluorophore ratiometric thermometers with positive temperature coefficients. *Materials Chemistry Frontiers*, **2017**, 1, 2383-2390	7.8	11
21	Direct spraying method for fabrication of paper-based microfluidic devices. *Journal of Micromechanics and Microengineering*, **2017**, 27, 104001	2	15
20	Fabricating small-scale, curved, polymeric structures for biological applications using a combination of photocurable/thermocurable polydimethylsiloxane and phase interactions. *Applied Physics A: Materials Science and Processing*, **2016**, 122, 1	2.6	1
19	Polymeric Microneedle Array Fabrication by Photolithography. *Journal of Visualized Experiments*, **2015**,	1.6	8
18	A two-component pre-seeded dermal-epidermal scaffold. *Acta Biomaterialia*, **2014**, 10, 4928-4938	10.8	15
17	Synthetic ligand-coated magnetic nanoparticles for microfluidic bacterial separation from blood. *Nano Letters*, **2014**, 14, 1-5	11.5	196
16	Benchtop fabrication of microfluidic systems based on curable polymers with improved solvent compatibility. *Lab on A Chip*, **2013**, 13, 252-9	7.2	18
15	Microdevices for nanomedicine. *Molecular Pharmaceutics*, **2013**, 10, 2127-44	5.6	20
14	Bubbles navigating through networks of microchannels. *Lab on A Chip*, **2011**, 11, 3970-8	7.2	27
13	Stretchable microfluidic electric circuit applied for radio frequency antenna **2011**,		8
12	Cofabrication: a strategy for building multicomponent microsystems. *Accounts of Chemical Research*, **2010**, 43, 518-28	24.3	49
11	Stretchable microfluidic radiofrequency antennas. *Advanced Materials*, **2010**, 22, 2749-52	24	337
10	Synthesis of 5-(3-indolyl)oxazole natural products. Structure revision of Almazole D. *Tetrahedron*, **2010**, 66, 4888-4893	2.4	39
9	Formation of bubbles in a multisection flow-focusing junction. *Small*, **2010**, 6, 1051-9	11	32

8	Infochemistry: encoding information as optical pulses using droplets in a microfluidic device. *Journal of the American Chemical Society*, **2009**, 131, 12420-9	16.4	26
7	A microfluidic apparatus for the study of ice nucleation in supercooled water drops. *Lab on A Chip*, **2009**, 9, 2293-305	7.2	122
6	Preparation of monodisperse biodegradable polymer microparticles using a microfluidic flow-focusing device for controlled drug delivery. *Small*, **2009**, 5, 1575-81	11	457
5	Interfacial instabilities in a microfluidic Hele-Shaw cell. *Soft Matter*, **2008**, 4, 1403-1413	3.6	52
4	Formation of bubbles and droplets in parallel, coupled flow-focusing geometries. *Small*, **2008**, 4, 1795-805	11	98
3	Synthesis of composite emulsions and complex foams with the use of microfluidic flow-focusing devices. *Small*, **2007**, 3, 1792-802	11	72
2	Flowing lattices of bubbles as tunable, self-assembled diffraction gratings. *Small*, **2006**, 2, 1292-8	11	58
1	3D Printing of Okara Ink: The Effect of Particle Size on the Printability. *ACS Food Science & Technology*,		2