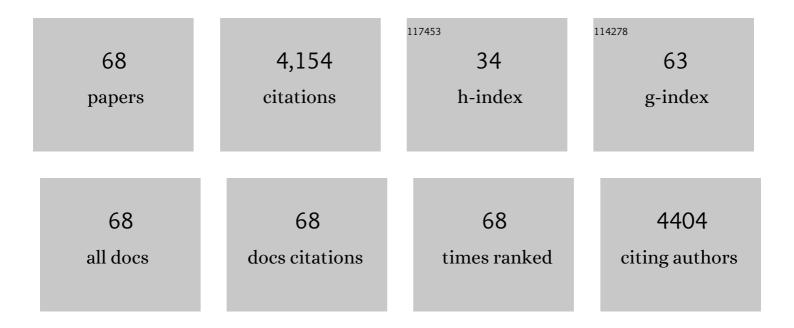
List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	A microfluidic device for a pharmacokinetic–pharmacodynamic (PK–PD) model on a chip. Lab on A Chip, 2010, 10, 446.	3.1	419
2	A micro cell culture analog (ÂμCCA) with 3-D hydrogel culture of multiple cell lines to assess metabolism-dependent cytotoxicity of anti-cancer drugs. Lab on A Chip, 2009, 9, 1385.	3.1	402
3	Microscale 3-D hydrogel scaffold for biomimetic gastrointestinal (GI) tract model. Lab on A Chip, 2011, 11, 389-392.	3.1	287
4	Recent Advances in Body-on-a-Chip Systems. Analytical Chemistry, 2019, 91, 330-351.	3.2	167
5	Microfluidic gut-on-a-chip with three-dimensional villi structure. Biomedical Microdevices, 2017, 19, 37.	1.4	161
6	On chip porous polymer membranes for integration of gastrointestinal tract epithelium with microfluidic â€ ⁻ body-on-a-chip' devices. Biomedical Microdevices, 2012, 14, 895-906.	1.4	157
7	Microfluidic Gut-liver chip for reproducing the first pass metabolism. Biomedical Microdevices, 2017, 19, 4.	1.4	140
8	Prevention of air bubble formation in a microfluidic perfusion cell culture system using a microscale bubble trap. Biomedical Microdevices, 2009, 11, 731-738.	1.4	118
9	Using physiologically-based pharmacokinetic-guided "body-on-a-chip―systems to predict mammalian response to drug and chemical exposure. Experimental Biology and Medicine, 2014, 239, 1225-1239.	1.1	118
10	Mimicking the human smell sensing mechanism with an artificial nose platform. Biomaterials, 2012, 33, 1722-1729.	5.7	106
11	Construction of 3D multicellular microfluidic chip for an in vitro skin model. Biomedical Microdevices, 2017, 19, 22.	1.4	100
12	A pumpless multiâ€organâ€onâ€aâ€chip (MOC) combined with a pharmacokinetic–pharmacodynamic (PK–F model. Biotechnology and Bioengineering, 2017, 114, 432-443.	2D) 1.7	100
13	Piezoelectric biosensor using olfactory receptor protein expressed in Escherichia coli. Biosensors and Bioelectronics, 2006, 21, 1981-1986.	5.3	98
14	Three-dimensional intestinal villi epithelium enhances protection of human intestinal cells from bacterial infection by inducing mucin expression. Integrative Biology (United Kingdom), 2014, 6, 1122-1131.	0.6	88
15	Organâ€onâ€aâ€Chip Technology for Reproducing Multiorgan Physiology. Advanced Healthcare Materials, 2018, 7, 1700419.	3.9	88
16	Nanomaterial-Based Biosensor as an Emerging Tool for Biomedical Applications. Annals of Biomedical Engineering, 2012, 40, 1384-1397.	1.3	80
17	Organâ€onâ€aâ€chip technology and microfluidic wholeâ€body models for pharmacokinetic drug toxicity screening. Biotechnology Journal, 2013, 8, 1258-1266.	1.8	79
18	In vitro microscale systems for systematic drug toxicity study. Bioprocess and Biosystems Engineering, 2010, 33, 5-19.	1.7	74

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19	Gut–liver on a chip toward an in vitro model of hepatic steatosis. Biotechnology and Bioengineering, 2018, 115, 2817-2827.	1.7	74
20	A microfluidic cell culture device (μFCCD) to culture epithelial cells with physiological and morphological properties that mimic those of the human intestine. Biomedical Microdevices, 2015, 17, 9966.	1.4	61
21	Microfluidic assay-based optical measurement techniques for cell analysis: A review of recent progress. Biosensors and Bioelectronics, 2016, 77, 227-236.	5.3	60
22	Fabrication of degradable carboxymethyl cellulose (CMC) microneedle with laser writing and replica molding process for enhancement of transdermal drug delivery. Biotechnology and Bioprocess Engineering, 2016, 21, 110-118.	1.4	55
23	Microfluidic skin chip with vasculature for recapitulating the immune response of the skin tissue. Biotechnology and Bioengineering, 2020, 117, 1853-1863.	1.7	55
24	Integration of <i>in silico</i> and <i>in vitro</i> platforms for pharmacokinetic–pharmacodynamic modeling. Expert Opinion on Drug Metabolism and Toxicology, 2010, 6, 1063-1081.	1.5	54
25	Microtechnology for Mimicking In Vivo Tissue Environment. Annals of Biomedical Engineering, 2012, 40, 1289-1300.	1.3	51
26	3D gut-liver chip with a PK model for prediction of first-pass metabolism. Biomedical Microdevices, 2017, 19, 100.	1.4	51
27	Hydrogelâ€based threeâ€dimensional cell culture for organâ€onâ€aâ€chip applications. Biotechnology Progress, 2017, 33, 580-589.	1.3	47
28	Transdermal delivery of cosmetic ingredients using dissolving polymer microneedle arrays. Biotechnology and Bioprocess Engineering, 2015, 20, 543-549.	1.4	46
29	Fluorescence optical detection in situ for realâ€ŧime monitoring of cytochrome P450 enzymatic activity of liver cells in multiple microfluidic devices. Biotechnology and Bioengineering, 2009, 104, 516-525.	1.7	44
30	Strategies for using mathematical modeling approaches to design and interpret multi-organ microphysiological systems (MPS). APL Bioengineering, 2019, 3, 021501.	3.3	42
31	Fabrication of a pumpless, microfluidic skin chip from different collagen sources. Journal of Industrial and Engineering Chemistry, 2017, 56, 375-381.	2.9	40
32	Fabrication and characterization of microfluidic liver-on-a-chip using microsomal enzymes. Enzyme and Microbial Technology, 2013, 53, 159-164.	1.6	38
33	A Microfluidic Device with 3-D Hydrogel Villi Scaffold to Simulate Intestinal Absorption. Journal of Nanoscience and Nanotechnology, 2013, 13, 7220-7228.	0.9	37
34	Development of 3D skin-equivalent in a pump-less microfluidic chip. Journal of Industrial and Engineering Chemistry, 2018, 60, 355-359.	2.9	37
35	Three-dimensional in vitro gut model on a villi-shaped collagen scaffold. Biochip Journal, 2017, 11, 219-231.	2.5	35
36	Pharmacokinetic and pharmacodynamic insights from microfluidic intestine-on-a-chip models. Expert Opinion on Drug Metabolism and Toxicology, 2019, 15, 1005-1019.	1.5	35

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37	A microfluidic chip with gravityâ€induced unidirectional flow for perfusion cell culture. Biotechnology Progress, 2019, 35, e2701.	1.3	35
38	Microphysiological systems for recapitulating physiology and function of blood-brain barrier. Biomaterials, 2020, 232, 119732.	5.7	34
39	A Combined Pharmacokinetic–Pharmacodynamic (PK–PD) Model for Tumor Growth in the Rat with UFT Administration. Journal of Pharmaceutical Sciences, 2009, 98, 1885-1904.	1.6	31
40	Fabrication and characterization of dissolving microneedle arrays for improving skin permeability of cosmetic ingredients. Journal of Industrial and Engineering Chemistry, 2016, 39, 121-126.	2.9	26
41	A Gut-Brain Axis-on-a-Chip for studying transport across epithelial and endothelial barriers. Journal of Industrial and Engineering Chemistry, 2021, 101, 126-134.	2.9	26
42	In vitro hepatic steatosis model based on gut–liverâ€onâ€aâ€chip. Biotechnology Progress, 2021, 37, e3121.	1.3	24
43	Real-time fluorescence detection of multiple microscale cell culture analog devicesin situ. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2007, 71A, 857-865.	1.1	23
44	Multi-organ-on-a-chip for pharmacokinetics and toxicokinetic study of drugs. Expert Opinion on Drug Metabolism and Toxicology, 2021, 17, 969-986.	1.5	23
45	Microtechnologyâ€based organ systems and wholeâ€body models for drug screening. Biotechnology Journal, 2016, 11, 746-756.	1.8	22
46	In vitro 3D skin model using gelatin methacrylate hydrogel. Journal of Industrial and Engineering Chemistry, 2018, 66, 254-261.	2.9	22
47	Construction of pancreas–muscle–liver microphysiological system (MPS) for reproducing glucose metabolism. Biotechnology and Bioengineering, 2019, 116, 3433-3445.	1.7	22
48	Mimicking the Human Physiology with Microphysiological Systems (MPS). Biochip Journal, 2019, 13, 115-126.	2.5	22
49	Investigation of portable in situ fluorescence optical detection for microfluidic 3D cell culture assays. Optics Letters, 2010, 35, 1374.	1.7	20
50	Microtechnology-Based Multi-Organ Models. Bioengineering, 2017, 4, 46.	1.6	20
51	Fabrication of micrometer-scale porous gelatin scaffolds for 3D cell culture. Journal of Industrial and Engineering Chemistry, 2017, 50, 183-189.	2.9	15
52	Application of chemical reaction engineering principles to "bodyâ€onâ€a hip―systems. AICHE Journal, 20 64, 4351-4360.	918, 1.8	15
53	Three-tissue microphysiological system for studying inflammatory responses in gut-liver Axis. Biomedical Microdevices, 2020, 22, 65.	1.4	15
54	Organ-on-a-Chip for Studying Gut-Brain Interaction Mediated by Extracellular Vesicles in the Gut Microenvironment. International Journal of Molecular Sciences, 2021, 22, 13513.	1.8	15

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55	Gut–Kidney Axis on Chip for Studying Effects of Antibiotics on Risk of Hemolytic Uremic Syndrome by Shiga Toxin-Producing Escherichia coli. Toxins, 2021, 13, 775.	1.5	14
56	A microfluidic device for evaluating the dynamics of the metabolism-dependent antioxidant activity of nutrients. Lab on A Chip, 2014, 14, 2948.	3.1	13
57	Pharmacokinetic-based multi-organ chip for recapitulating organ interactions. Methods in Cell Biology, 2018, 146, 183-197.	0.5	12
58	Multiorganâ€onâ€aâ€chip for realization of gutâ€skin axis. Biotechnology and Bioengineering, 2022, 119, 2590-2601.	1.7	11
59	Effect of culture condition on cell viability and gel contraction in a skin chip. Journal of Industrial and Engineering Chemistry, 2020, 87, 60-67.	2.9	9
60	Microtechnology-based <i>in vitro</i> models: Mimicking liver function and pathophysiology. APL Bioengineering, 2021, 5, 041505.	3.3	9
61	A body-on-a-chip (BOC) system for studying gut-liver interaction. Methods in Cell Biology, 2020, 158, 1-10.	0.5	8
62	Selfâ€assembled DNAâ€based giant thrombin nanoparticles for controlled release. Biotechnology Journal, 2013, 8, 215-220.	1.8	7
63	Solving Medical Problems with BioMEMS. IEEE Pulse, 2011, 2, 51-59.	0.1	6
64	Development of a Pumpless Microfluidic System to Study the Interaction between Gut Microbes and Intestinal Epithelial Cells. Biotechnology and Bioprocess Engineering, 2022, 27, 221-233.	1.4	5
65	Gut-on-a-chip microphysiological systems for the recapitulation of the gut microenvironment. , 2020, , 295-310.		4
66	Robust parameter estimation for physiologically based pharmacokinetic model of Tegafur with dissolution dynamics. Chemical Engineering Research and Design, 2015, 104, 730-739.	2.7	2
67	Quantitative cell analysis in situ on a short time scale using a microscale cell culture assay. , 2007, , .		0
68	Introduction to the Special Issue on Micro- and Nanofabrication Techniques. Annals of Biomedical Engineering, 2012, 40, 1209-1210.	1.3	0