

Jianhua Qin

List of Publications by Year in descending order

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Version: 2024-02-01

96
papers

5,189
citations

87843

38
h-index

95218

68
g-index

105
all docs

105
docs citations

105
times ranked

6318
citing authors

#	ARTICLE	IF	CITATIONS
1	Rapid prototyping of paper-based microfluidics with wax for low-cost, portable bioassay. <i>Electrophoresis</i> , 2009, 30, 1497-1500.	1.3	558
2	Electrospinning versus microfluidic spinning of functional fibers for biomedical applications. <i>Biomaterials</i> , 2017, 114, 121-143.	5.7	287
3	Human brain organoid-on-a-chip to model prenatal nicotine exposure. <i>Lab on A Chip</i> , 2018, 18, 851-860.	3.1	227
4	Advances in Hydrogels in Organoids and Organ-on-a-Chip. <i>Advanced Materials</i> , 2019, 31, e1902042.	11.1	212
5	Microfluidic platform towards point-of-care diagnostics in infectious diseases. <i>Journal of Chromatography A</i> , 2015, 1377, 13-26.	1.8	176
6	A dynamic in vivo-like organotypic blood-brain barrier model to probe metastatic brain tumors. <i>Scientific Reports</i> , 2016, 6, 36670.	1.6	147
7	<i>In situ</i> differentiation and generation of functional liver organoids from human iPSCs in a 3D perfusable chip system. <i>Lab on A Chip</i> , 2018, 18, 3606-3616.	3.1	147
8	A disease model of diabetic nephropathy in a glomerulus-on-a-chip microdevice. <i>Lab on A Chip</i> , 2017, 17, 1749-1760.	3.1	146
9	Flexible Fabrication of Biomimetic Bamboo-Like Hybrid Microfibers. <i>Advanced Materials</i> , 2014, 26, 2494-2499.	11.1	142
10	Engineering human islet organoids from iPSCs using an organ-on-chip platform. <i>Lab on A Chip</i> , 2019, 19, 948-958.	3.1	140
11	Engineering stem cell-derived 3D brain organoids in a perfusable organ-on-a-chip system. <i>RSC Advances</i> , 2018, 8, 1677-1685.	1.7	134
12	A 3D human lung-on-a-chip model for nanotoxicity testing. <i>Toxicology Research</i> , 2018, 7, 1048-1060.	0.9	132
13	A 3D human placenta-on-a-chip model to probe nanoparticle exposure at the placental barrier. <i>Toxicology in Vitro</i> , 2019, 54, 105-113.	1.1	131
14	Biomimetic Human Disease Model of SARS-CoV-2-Induced Lung Injury and Immune Responses on Organ Chip System. <i>Advanced Science</i> , 2021, 8, 2002928.	5.6	119
15	In situ generation of human brain organoids on a micropillar array. <i>Lab on A Chip</i> , 2017, 17, 2941-2950.	3.1	106
16	A Droplet Microfluidic System to Fabricate Hybrid Capsules Enabling Stem Cell Organoid Engineering. <i>Advanced Science</i> , 2020, 7, 1903739.	5.6	92
17	SARS-CoV-2 induced intestinal responses with a biomimetic human gut-on-chip. <i>Science Bulletin</i> , 2021, 66, 783-793.	4.3	91
18	Simple Spinning of Heterogeneous Hollow Microfibers on Chip. <i>Advanced Materials</i> , 2016, 28, 6649-6655.	11.1	83

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19	A cross-talk between epithelium and endothelium mediates human alveolar capillary injury during SARS-CoV-2 infection. <i>Cell Death and Disease</i> , 2020, 11, 1042.	2.7	83
20	Activation of hypoxia signaling induces phenotypic transformation of glioma cells: implications for bevacizumab antiangiogenic therapy. <i>Oncotarget</i> , 2015, 6, 11882-11893.	0.8	68
21	One-Step Generation of Core-Shell Gelatin Methacrylate (GelMA) Microgels Using a Droplet Microfluidic System. <i>Advanced Materials Technologies</i> , 2019, 4, 1800632.	3.0	62
22	Potent anti-inflammatory effect of dioscin mediated by suppression of TNF- α -induced VCAM-1, ICAM-1 and EL expression via the NF- κ B pathway. <i>Biochimie</i> , 2015, 110, 62-72.	1.3	61
23	Probing impaired neurogenesis in human brain organoids exposed to alcohol. <i>Integrative Biology (United Kingdom)</i> , 2017, 9, 968-978.	0.6	61
24	A Microfluidic-Based Multi-Shear Device for Investigating the Effects of Low Fluid-Induced Stresses on Osteoblasts. <i>PLoS ONE</i> , 2014, 9, e89966.	1.1	60
25	Placental Barrier-on-a-Chip: Modeling Placental Inflammatory Responses to Bacterial Infection. <i>ACS Biomaterials Science and Engineering</i> , 2018, 4, 3356-3363.	2.6	58
26	HiPSC-derived multi-organoids-on-chip system for safety assessment of antidepressant drugs. <i>Lab on A Chip</i> , 2021, 21, 571-581.	3.1	56
27	Human induced pluripotent stem cell-derived beating cardiac tissues on paper. <i>Lab on A Chip</i> , 2015, 15, 4283-4290.	3.1	53
28	Simultaneous and ultrarapid determination of reactive oxygen species and reduced glutathione in apoptotic leukemia cells by microchip electrophoresis. <i>Electrophoresis</i> , 2005, 26, 1155-1162.	1.3	52
29	A Biomimetic Human Gut-on-a-Chip for Modeling Drug Metabolism in Intestine. <i>Artificial Organs</i> , 2018, 42, 1196-1205.	1.0	50
30	Modeling Human Nonalcoholic Fatty Liver Disease (NAFLD) with an Organoids-on-a-Chip System. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 5734-5743.	2.6	50
31	Assessment of Air Pollutant PM2.5 Pulmonary Exposure Using a 3D Lung-on-Chip Model. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 3081-3090.	2.6	50
32	Microengineered Multi-Organoid System from hiPSCs to Recapitulate Human Liverlet Axis in Normal and Type 2 Diabetes. <i>Advanced Science</i> , 2022, 9, e2103495.	5.6	49
33	Microfluidic devices for the analysis of apoptosis. <i>Electrophoresis</i> , 2005, 26, 3780-3788.	1.3	47
34	Induction of epithelial-to-mesenchymal transition in proximal tubular epithelial cells on microfluidic devices. <i>Biomaterials</i> , 2014, 35, 1390-1401.	5.7	47
35	A hollow fiber system for simple generation of human brain organoids. <i>Integrative Biology (United Kingdom)</i> , 2017, 9, 968-978.	0.6	47
36	Microfluidic strategies for label-free exosomes isolation and analysis. <i>TrAC - Trends in Analytical Chemistry</i> , 2019, 118, 686-698.	5.8	47

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37	Rapid authentication of ginseng species using microchip electrophoresis with laser-induced fluorescence detection. <i>Analytical and Bioanalytical Chemistry</i> , 2005, 381, 812-819.	1.9	43
38	Microdroplet-based universal logic gates by electrorheological fluid. <i>Soft Matter</i> , 2011, 7, 7493.	1.2	42
39	Biomimetic tumor microenvironment on a microfluidic platform. <i>Biomicrofluidics</i> , 2013, 7, 011501.	1.2	41
40	Assessment of metabolism-dependent drug efficacy and toxicity on a multilayer organs-on-a-chip. <i>Integrative Biology (United Kingdom)</i> , 2016, 8, 1022-1029.	0.6	41
41	One-step synthesis of composite hydrogel capsules to support liver organoid generation from hiPSCs. <i>Biomaterials Science</i> , 2020, 8, 5476-5488.	2.6	41
42	Neurodevelopmental impairment induced by prenatal valproic acid exposure shown with the human cortical organoid-on-a-chip model. <i>Microsystems and Nanoengineering</i> , 2020, 6, 49.	3.4	39
43	One-Step Generation of Aqueous-Droplet-Filled Hydrogel Fibers as Organoid Carriers Using an All-in-Water Microfluidic System. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 3199-3208.	4.0	39
44	Microfluidic device for on-chip isolation and detection of circulating exosomes in blood of breast cancer patients. <i>Biomicrofluidics</i> , 2019, 13, 054113.	1.2	38
45	Native fluorescence detection of flavin derivatives by microchip capillary electrophoresis with laser-induced fluorescence intensified charge-coupled device detection. <i>Journal of Chromatography A</i> , 2004, 1027, 223-229.	1.8	37
46	Simple and fast isolation of circulating exosomes with a chitosan modified shuttle flow microchip for breast cancer diagnosis. <i>Lab on A Chip</i> , 2021, 21, 1759-1770.	3.1	33
47	Catalytic Performance of Monolithic Foam Ni/SiC Catalyst in Carbon dioxide Reforming of Methane to Synthesis Gas. <i>Catalysis Letters</i> , 2008, 120, 111-115.	1.4	31
48	Microfluidic Organs-on-a-Chip for Modeling Human Infectious Diseases. <i>Accounts of Chemical Research</i> , 2021, 54, 3550-3562.	7.6	30
49	Human induced pluripotent stem cells derived endothelial cells mimicking vascular inflammatory response under flow. <i>Biomicrofluidics</i> , 2016, 10, 014106.	1.2	28
50	Bioinspired onion epithelium-like structure promotes the maturation of cardiomyocytes derived from human pluripotent stem cells. <i>Biomaterials Science</i> , 2017, 5, 1810-1819.	2.6	28
51	Assessment of cadmium-induced nephrotoxicity using a kidney-on-a-chip device. <i>Toxicology Research</i> , 2017, 6, 372-380.	0.9	25
52	Engineering Brain Organoids to Probe Impaired Neurogenesis Induced by Cadmium. <i>ACS Biomaterials Science and Engineering</i> , 2018, 4, 1908-1915.	2.6	25
53	Paper supported long-term 3D liver co-culture model for the assessment of hepatotoxic drugs. <i>Toxicology Research</i> , 2018, 7, 13-21.	0.9	25
54	Assessment of hepatic metabolism-dependent nephrotoxicity on an organs-on-a-chip microdevice. <i>Toxicology in Vitro</i> , 2018, 46, 1-8.	1.1	25

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55	EGFR signaling confers resistance to BET inhibition in hepatocellular carcinoma through stabilizing oncogenic MYC. <i>Journal of Experimental and Clinical Cancer Research</i> , 2019, 38, 83.	3.5	25
56	Flexible Fabrication of Shape-Controlled Collagen Building Blocks for Self-Assembly of 3D Microtissues. <i>Small</i> , 2015, 11, 3666-3675.	5.2	24
57	A flexible microfluidic strategy to generate grooved microfibers for guiding cell alignment. <i>Biomaterials Science</i> , 2021, 9, 4880-4890.	2.6	23
58	Genotyping the -6A/G functional polymorphism in the core promoter region of angiotensinogen gene by microchip electrophoresis. <i>Electrophoresis</i> , 2005, 26, 219-224.	1.3	21
59	Patterning hypoxic multicellular spheroids in a 3D matrix – a promising method for anti-tumor drug screening. <i>Biotechnology Journal</i> , 2016, 11, 127-134.	1.8	20
60	A microfluidic strategy to fabricate ultra-thin polyelectrolyte hollow microfibers as 3D cellular carriers. <i>Materials Science and Engineering C</i> , 2019, 104, 109705.	3.8	19
61	Human Organoids and Organ-on-a-Chips for Addressing COVID-19 Challenges. <i>Advanced Science</i> , 2022, 9, e2105187.	5.6	19
62	Synthesis of shape-controlled particles based on synergistic effect of geometry confinement, double emulsion template, and polymerization quenching. <i>Microfluidics and Nanofluidics</i> , 2012, 12, 33-39.	1.0	18
63	Simple fabrication of inner chitosan-coated alginate hollow microfiber with higher stability. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2019, 107, 2527-2536.	1.6	18
64	DNA diagnosis by capillary electrophoresis and microfabricated electrophoretic devices. <i>Expert Review of Molecular Diagnostics</i> , 2003, 3, 387-394.	1.5	15
65	High throughput generation and trapping of individual agarose microgel using microfluidic approach. <i>Microfluidics and Nanofluidics</i> , 2013, 15, 467-474.	1.0	15
66	A simple photolithography method for microfluidic device fabrication using sunlight as UV source. <i>Microfluidics and Nanofluidics</i> , 2010, 9, 1247-1252.	1.0	14
67	Probing the response of lung tumor cells to inflammatory microvascular endothelial cells on fluidic microdevice. <i>Electrophoresis</i> , 2017, 38, 311-319.	1.3	14
68	Stimulation of chondrocytes and chondroinduced mesenchymal stem cells by osteoinduced mesenchymal stem cells under a fluid flow stimulus on an integrated microfluidic device. <i>Molecular Medicine Reports</i> , 2018, 17, 2277-2288.	1.1	14
69	Amnion-on-a-chip: modeling human amniotic development in mid-gestation from pluripotent stem cells. <i>Lab on A Chip</i> , 2020, 20, 3258-3268.	3.1	14
70	Bezafibrate-mizoribine interaction: Involvement of organic anion transporters OAT1 and OAT3 in rats. <i>European Journal of Pharmaceutical Sciences</i> , 2016, 81, 119-128.	1.9	13
71	Integrated Microfluidic Device for Enrichment and Identification of Circulating Tumor Cells from the Blood of Patients with Colorectal Cancer. <i>Disease Markers</i> , 2019, 2019, 1-9.	0.6	13
72	Flexible Generation of Multi-Aqueous Core Hydrogel Capsules Using Microfluidic Aqueous Two-Phase System. <i>Advanced Materials Technologies</i> , 2020, 5, 2000045.	3.0	13

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73	Controllable Fabrication of Composite Core-Shell Capsules at a Macroscale as Organoid Biocarriers. <i>ACS Applied Bio Materials</i> , 2021, 4, 1584-1596.	2.3	13
74	Development of micropump-actuated negative pressure pinched injection for parallel electrophoresis on array microfluidic chip. <i>Electrophoresis</i> , 2009, 30, 3053-3057.	1.3	12
75	Probing the Bi-directional Interaction Between Microglia and Gliomas in a Tumor Microenvironment on a Microdevice. <i>Neurochemical Research</i> , 2017, 42, 1478-1487.	1.6	12
76	Advances of Exosomal miRNAs in Breast Cancer Progression and Diagnosis. <i>Diagnostics</i> , 2021, 11, 2151.	1.3	12
77	Malignant Melanoma-Derived Exosomes Induce Endothelial Damage and Glial Activation on a Human BBB Chip Model. <i>Biosensors</i> , 2022, 12, 89.	2.3	12
78	Patterning cell using Si-stencil for high-throughput assay. <i>RSC Advances</i> , 2011, 1, 746.	1.7	11
79	Brain organoid-on-chip system to study the effects of breast cancer derived exosomes on the neurodevelopment of brain. <i>Cell Regeneration</i> , 2022, 11, 7.	1.1	11
80	Controllable synthesis of anisotropic elongated particles using microvalve actuated microfluidic approach. <i>Journal of Materials Chemistry</i> , 2011, 21, 2466.	6.7	10
81	An integrated microfluidic device for characterizing chondrocyte metabolism in response to distinct levels of fluid flow stimulus. <i>Microfluidics and Nanofluidics</i> , 2013, 15, 763-773.	1.0	10
82	Advances in Biosensor Technologies for Infection Diagnostics. <i>Accounts of Chemical Research</i> , 2022, 55, 121-122.	7.6	9
83	Analysis of <i>Caenorhabditis elegans</i> in microfluidic devices. <i>Science China Chemistry</i> , 2012, 55, 484-493.	4.2	8
84	Regulating cell behaviors on micropillar topographies affected by interfacial energy. <i>RSC Advances</i> , 2015, 5, 22916-22922.	1.7	7
85	Bioinspired Engineering of Organ-on-Chip Devices. <i>Advances in Experimental Medicine and Biology</i> , 2019, 1174, 401-440.	0.8	7
86	Establishment of Trophoblast-Like Tissue Model from Human Pluripotent Stem Cells in Three-Dimensional Culture System. <i>Advanced Science</i> , 2022, 9, e2100031.	5.6	7
87	Exploration of Exosomal miRNAs from Serum and Synovial Fluid in Arthritis Patients. <i>Diagnostics</i> , 2022, 12, 239.	1.3	7
88	Highly efficient separation of dsDNA fragments on glass chips by using an ultralow viscosity sieving matrix. <i>Journal of Separation Science</i> , 2003, 26, 869-874.	1.3	6
89	Human induced pluripotent stem cell-derived cardiac tissue on a thin collagen membrane with natural microstructures. <i>Biomaterials Science</i> , 2016, 4, 1655-1662.	2.6	6
90	Microengineered hiPSC-Derived 3D Amnion Tissue Model to Probe Amniotic Inflammatory Responses under Bacterial Exposure. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 4644-4652.	2.6	5

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91	Epoxidation of electron-deficient α,β -unsaturated carbonyl compounds over Keggin heteropoly compounds with aqueous H_2O_2 . Journal of Chemical Research, 2005, 2005, 716-718.	0.6	4
92	Fluidic Flow Enhances the Differentiation of Placental Trophoblast-Like 3D Tissue from hiPSCs in a Perfused Macrofluidic Device. Frontiers in Bioengineering and Biotechnology, 0, 10, .	2.0	3
93	Microdevices: Flexible Fabrication of Shape-Controlled Collagen Building Blocks for Self-Assembly of 3D Microtissues (Small 30/2015). Small, 2015, 11, 3665-3665.	5.2	2
94	A Portable Device for Simple Exosome Separation from Biological Samples. Micromachines, 2021, 12, 1182.	1.4	2
95	MODIFIED ALGINATE/CHITOSAN HOLLOW MICROFIBER AS A BIOCOMPATIBLE FRAME FOR BLOOD VESSEL RECONSTRUCTION. Nano LIFE, 2012, 02, 1242005.	0.6	1
96	Honeycomb Structures: Facile Synthesis of Biomimetic Honeycomb Material with Biological Functionality (Small 4/2013). Small, 2013, 9, 644-644.	5.2	0