List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Microbiota-activated PPAR-γ signaling inhibits dysbiotic Enterobacteriaceae expansion. Science, 2017, 357, 570-575.	6.0	796
2	Aptamer-Based Electrochemical Biosensor for Interferon Gamma Detection. Analytical Chemistry, 2010, 82, 8131-8136.	3.2	271
3	Development of an aptasensor for electrochemical detection of exosomes. Methods, 2016, 97, 88-93.	1.9	212
4	Heparin-based hydrogel as a matrix for encapsulation and cultivation ofÂprimary hepatocytes. Biomaterials, 2010, 31, 3596-3603.	5.7	179
5	Simultaneous detection of cell-secreted TNF-α and IFN-γ using micropatterned aptamer-modified electrodes. Biomaterials, 2012, 33, 7347-7355.	5.7	135
6	Mechanical Stretch Increases Expression of CXCL1 in Liver Sinusoidal Endothelial Cells to Recruit Neutrophils, Generate Sinusoidal Microthombi, and Promote Portal Hypertension. Gastroenterology, 2019, 157, 193-209.e9.	0.6	134
7	Macrophages contribute to the pathogenesis of sclerosing cholangitis in mice. Journal of Hepatology, 2018, 69, 676-686.	1.8	119
8	Liver injury-on-a-chip: microfluidic co-cultures with integrated biosensors for monitoring liver cell signaling during injury. Lab on A Chip, 2015, 15, 4467-4478.	3.1	112
9	Integrin β1-enriched extracellular vesicles mediate monocyte adhesion and promote liver inflammation in murine NASH. Journal of Hepatology, 2019, 71, 1193-1205.	1.8	112
10	Detecting multiple cell-secreted cytokines from the same aptamer-functionalized electrode. Biosensors and Bioelectronics, 2015, 64, 43-50.	5.3	108
11	IRE1A Stimulates Hepatocyte-Derived Extracellular Vesicles That Promote Inflammation in Mice With Steatohepatitis. Gastroenterology, 2020, 159, 1487-1503.e17.	0.6	105
12	An aptasensor for electrochemical detection of tumor necrosis factor in human blood. Analyst, The, 2013, 138, 4321.	1.7	101
13	Micropatterned Aptasensors for Continuous Monitoring of Cytokine Release from Human Leukocytes. Analytical Chemistry, 2011, 83, 8286-8292.	3.2	96
14	Microfluidic fabrication of bioactive microgels for rapid formation and enhanced differentiation of stem cell spheroids. Acta Biomaterialia, 2016, 34, 125-132.	4.1	96
15	Microfluidic compartments with sensing microbeads for dynamic monitoring of cytokine and exosome release from single cells. Analyst, The, 2016, 141, 679-688.	1.7	90
16	Characterizing the Effects of Heparin Gel Stiffness on Function of Primary Hepatocytes. Tissue Engineering - Part A, 2013, 19, 2655-2663.	1.6	74
17	Immobilizing Enzymes onto Electrode Arrays by Hydrogel Photolithography to Fabricate Multi-Analyte Electrochemical Biosensors. ACS Applied Materials & Interfaces, 2010, 2, 748-755.	4.0	72
18	One step fabrication of hydrogel microcapsules with hollow core for assembly and cultivation of hepatocyte spheroids. Acta Biomaterialia, 2017, 50, 428-436.	4.1	72

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19	Detecting Transforming Growth Factor-β Release from Liver Cells Using an Aptasensor Integrated with Microfluidics. Analytical Chemistry, 2014, 86, 8865-8872.	3.2	65
20	Hepatocyte-Derived Lipotoxic Extracellular Vesicle Sphingosine 1-Phosphate Induces Macrophage Chemotaxis. Frontiers in Immunology, 2018, 9, 2980.	2.2	65
21	Cultivating hepatocytes on printed arrays of HCF and BMP7 to characterize protective effects of these growth factors during in vitro alcohol injury. Biomaterials, 2010, 31, 5936-5944.	5.7	56
22	Micropatterned Surfaces Functionalized with Electroactive Peptides for Detecting Protease Release from Cells. Analytical Chemistry, 2013, 85, 220-227.	3.2	56
23	A microfluidic platform for cultivating ovarian cancer spheroids and testing their responses to chemotherapies. Microsystems and Nanoengineering, 2020, 6, 93.	3.4	56
24	Miniature Enzyme-Based Electrodes for Detection of Hydrogen Peroxide Release from Alcohol-Injured Hepatocytes. Analytical Chemistry, 2013, 85, 932-939.	3.2	49
25	Detecting cell-secreted growth factors in microfluidic devices using bead-based biosensors. Microsystems and Nanoengineering, 2017, 3, .	3.4	48
26	Multilayered Heparin Hydrogel Microwells for Cultivation of Primary Hepatocytes. Advanced Healthcare Materials, 2014, 3, 126-132.	3.9	43
27	Electrochemical Desorption of Proteins from Gold Electrode Surface. Electroanalysis, 2006, 18, 1885-1892.	1.5	40
28	Micropatterned Nanocomposite Hydrogels for Biosensing Applications. Electroanalysis, 2011, 23, 1142-1149.	1.5	39
29	Electrochemical biosensors for on-chip detection of oxidative stress from immune cells. Biomicrofluidics, 2011, 5, 32008-3200811.	1.2	38
30	Micropatterned Sensing Hydrogels Integrated with Reconfigurable Microfluidics for Detecting Protease Release from Cells. Analytical Chemistry, 2013, 85, 11893-11901.	3.2	38
31	Cell biology is different in small volumes: endogenous signals shape phenotype of primary hepatocytes cultured in microfluidic channels. Scientific Reports, 2016, 6, 33980.	1.6	37
32	Automated Droplet-Based Microfluidic Platform for Multiplexed Analysis of Biochemical Markers in Small Volumes. Analytical Chemistry, 2019, 91, 5133-5141.	3.2	37
33	Super enhancer regulation of cytokine-induced chemokine production in alcoholic hepatitis. Nature Communications, 2021, 12, 4560.	5.8	37
34	Micropatterning of bioactive heparin-based hydrogels. Soft Matter, 2011, 7, 3133-3140.	1.2	34
35	Heparin hydrogel sandwich cultures of primary hepatocytes. European Polymer Journal, 2015, 72, 726-735.	2.6	34
36	Growth Factor-Bearing Polymer Brushes - Versatile Bioactive Substrates Influencing Cell Response. Biomacromolecules, 2015, 16, 3530-3542.	2.6	31

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37	Reconfigurable microfluidics with integrated aptasensors for monitoring intercellular communication. Lab on A Chip, 2014, 14, 1695-1704.	3.1	30
38	Core–shell hydrogel microcapsules enable formation of human pluripotent stem cell spheroids and their cultivation in a stirred bioreactor. Scientific Reports, 2021, 11, 7177.	1.6	30
39	Biosensors for Cell Analysis. Annual Review of Biomedical Engineering, 2015, 17, 165-190.	5.7	29
40	Ethanol Negatively Regulates Hepatic Differentiation of hESC by Inhibition of the MAPK/ERK Signaling Pathway In Vitro. PLoS ONE, 2014, 9, e112698.	1.1	28
41	HLA Class I Depleted hESC as a Source of Hypoimmunogenic Cells for Tissue Engineering Applications. Tissue Engineering - Part A, 2015, 21, 2559-2571.	1.6	26
42	Embryonic Stem Cells Cultured in Microfluidic Chambers Take Control of Their Fate by Producing Endogenous Signals Including LIF. Stem Cells, 2016, 34, 1501-1512.	1.4	26
43	Functional imaging of neuron–astrocyte interactions in a compartmentalized microfluidic device. Microsystems and Nanoengineering, 2016, 2, 15045.	3.4	24
44	Nanowire Aptasensors for Electrochemical Detection of Cell-Secreted Cytokines. ACS Sensors, 2017, 2, 1644-1652.	4.0	24
45	Microfluidic co-cultures with hydrogel-based ligand trap to study paracrine signals giving rise to cancer drug resistance. Lab on A Chip, 2015, 15, 4614-4624.	3.1	23
46	Sensing Conductive Hydrogels for Rapid Detection of Cytokines in Blood. Advanced Healthcare Materials, 2016, 5, 659-664.	3.9	22
47	Microchamber Cultures of Bladder Cancer: A Platform for Characterizing Drug Responsiveness and Resistance in PDX and Primary Cancer Cells. Scientific Reports, 2017, 7, 12277.	1.6	21
48	Bioactive Photodegradable Hydrogel for Cultivation and Retrieval of Embryonic Stem Cells. Advanced Functional Materials, 2015, 25, 4650-4656.	7.8	20
49	Fabrication of composite microfluidic devices for local control of oxygen tension in cell cultures. Lab on A Chip, 2019, 19, 306-315.	3.1	20
50	Reconfigurable microfluidics combined with antibody microarrays for enhanced detection of T-cell secreted cytokines. Biomicrofluidics, 2013, 7, 024105.	1.2	18
51	Using reconfigurable microfluidics to study the role of HGF in autocrine and paracrine signaling of hepatocytes. Integrative Biology (United Kingdom), 2015, 7, 815-824.	0.6	17
52	Synectin promotes fibrogenesis by regulating PDGFR isoforms through distinct mechanisms. JCI Insight, 2017, 2, .	2.3	16
53	Electrochemical Biosensors for On-Chip Detection of Oxidative Stress from Cells. Methods in Enzymology, 2013, 526, 107-121.	0.4	14
54	Microfluidic confinement enhances phenotype and function of hepatocyte spheroids. American Journal of Physiology - Cell Physiology, 2020, 319, C552-C560.	2.1	14

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55	Ductular reaction-on-a-chip: Microfluidic co-cultures to study stem cell fate selection during liver injury. Scientific Reports, 2016, 6, 36077.	1.6	13
56	An electrochemical aptasensor for detection of bovine interferon gamma. Analytical Methods, 2017, 9, 4527-4532.	1.3	13
57	Nanoprojectile Secondary Ion Mass Spectrometry for Analysis of Extracellular Vesicles. Analytical Chemistry, 2021, 93, 7481-7490.	3.2	13
58	Nanoparticle-Enabled Multiplexed Electrochemical Immunoassay for Detection of Surface Proteins on Extracellular Vesicles. ACS Applied Materials & amp; Interfaces, 2021, 13, 52321-52332.	4.0	13
59	Microencapsulated Immunoassays for Detection of Cytokines in Human Blood. ACS Sensors, 2019, 4, 578-585.	4.0	12
60	A mathematical method for extracting cell secretion rate from affinity biosensors continuously monitoring cell activity. Biomicrofluidics, 2014, 8, 021501.	1.2	11
61	Hepatocyte cultures: From collagen gel sandwiches to microfluidic devices with integrated biosensors. APL Bioengineering, 2021, 5, 041504.	3.3	11
62	Microfluidic devices, accumulation of endogenous signals and stem cell fate selection. Differentiation, 2020, 112, 39-46.	1.0	8
63	Coupling tumor necrosis factorâ€related apoptosisâ€inducing ligand to iron oxide nanoparticles increases its apoptotic activity on HCT116 and HepC2 malignant cells: effect of magnetic core size. Journal of Interdisciplinary Nanomedicine, 2019, 4, 34-50.	3.6	7
64	Reconfigurable microfluidic device with integrated antibody arrays for capture, multiplexed stimulation, and cytokine profiling of human monocytes. Biomicrofluidics, 2015, 9, 044115.	1.2	6
65	Harnessing endogenous signals from hepatocytes using a low volume multi-well plate. Integrative Biology (United Kingdom), 2017, 9, 427-435.	0.6	6
66	Automated Microfluidic System with Active Mixing Enables Rapid Analysis of Biomarkers in 5 μL of Whole Blood. Analytical Chemistry, 2022, 94, 9706-9714.	3.2	6
67	Understanding Suboptimal Response to Immune Checkpoint Inhibitors. Advanced Biology, 2023, 7, e2101319.	1.4	5
68	Development of Micropatterned Cell-Sensing Surfaces. Methods in Cell Biology, 2014, 121, 75-90.	0.5	4
69	Sensing cell-secreted molecules. Bioanalytical Reviews, 2012, 4, 87-95.	0.1	3
70	Bioactive hydrogel microcapsules for guiding stem cell fate decisions by release and reloading of growth factors. Bioactive Materials, 2022, 15, 1-14.	8.6	3
71	Stereomask Lithography for Multi-Protein Patterning. Methods in Cell Biology, 2014, 119, 175-192.	0.5	2

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73	Microfluidic Fabrication of Core-Shell Microcapsules carrying Human Pluripotent Stem Cell Spheroids. Journal of Visualized Experiments, 2021, , .	0.2	2
74	Coating Bioactive Microcapsules with Tannic Acid Enhances the Phenotype of the Encapsulated Pluripotent Stem Cells. ACS Applied Materials & amp; Interfaces, 2022, 14, 27274-27286.	4.0	2
75	Prospects and Opportunities for Microsystems and Microfluidic Devices in the Field of Otorhinolaryngology. Clinical and Experimental Otorhinolaryngology, 2021, 14, 29-42.	1.1	1
76	Micropattern-assisted nanoassembly: Ordered nanocolloidal array on PEG microstructures. , 2009, , .		0
77	Interfacial Nanoadhesive: Universal Nanopatternable Interfacial Bonding (Adv. Mater. 46/2011). Advanced Materials, 2011, 23, 5550-5550.	11.1	0
78	Universal Anisotropically Conductive Nano-adhesive of PDMS Oligomers. Materials Research Society Symposia Proceedings, 2013, 1553, 1.	0.1	0