

Paul Vulto

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3125639/publications.pdf>

Version: 2024-02-01

44
papers

3,424
citations

218677

26
h-index

243625

44
g-index

45
all docs

45
docs citations

45
times ranked

4219
citing authors

#	ARTICLE	IF	CITATIONS
1	Microfluidic 3D cell culture: from tools to tissue models. <i>Current Opinion in Biotechnology</i> , 2015, 35, 118-126.	6.6	416
2	Kidney-on-a-Chip Technology for Drug-Induced Nephrotoxicity Screening. <i>Trends in Biotechnology</i> , 2016, 34, 156-170.	9.3	279
3	A perfused human blood-brain barrier on-a-chip for high-throughput assessment of barrier function and antibody transport. <i>Fluids and Barriers of the CNS</i> , 2018, 15, 23.	5.0	235
4	Biology-inspired microphysiological system approaches to solve the prediction dilemma of substance testing. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2016, 33, 272-321.	1.5	214
5	Membrane-free culture and real-time barrier integrity assessment of perfused intestinal epithelium tubes. <i>Nature Communications</i> , 2017, 8, 262.	12.8	207
6	Phaseguides: a paradigm shift in microfluidic priming and emptying. <i>Lab on A Chip</i> , 2011, 11, 1596.	6.0	171
7	Microfluidic titer plate for stratified 3D cell culture. <i>Lab on A Chip</i> , 2013, 13, 3548.	6.0	158
8	Differentiation of neuroepithelial stem cells into functional dopaminergic neurons in 3D microfluidic cell culture. <i>Lab on A Chip</i> , 2015, 15, 2419-2428.	6.0	130
9	Biology-inspired microphysiological systems to advance medicines for patient benefit and animal welfare. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2020, 37, 365-394.	1.5	123
10	Development of a Gut-on-a-Chip Model for High Throughput Disease Modeling and Drug Discovery. <i>International Journal of Molecular Sciences</i> , 2019, 20, 5661.	4.1	118
11	High-throughput compound evaluation on 3D networks of neurons and glia in a microfluidic platform. <i>Scientific Reports</i> , 2016, 6, 38856.	3.3	113
12	An end-user perspective on Organ-on-a-Chip: Assays and usability aspects. <i>Current Opinion in Biomedical Engineering</i> , 2017, 1, 15-22.	3.4	102
13	Therapy response testing of breast cancer in a 3D high-throughput perfused microfluidic platform. <i>BMC Cancer</i> , 2017, 17, 709.	2.6	96
14	Nephrotoxicity and Kidney Transport Assessment on 3D Perfused Proximal Tubules. <i>AAPS Journal</i> , 2018, 20, 90.	4.4	86
15	Lab-on-a-Chip hyphenation with mass spectrometry: strategies for bioanalytical applications. <i>Current Opinion in Biotechnology</i> , 2015, 31, 79-85.	6.6	81
16	Automated microfluidic cell culture of stem cell derived dopaminergic neurons. <i>Scientific Reports</i> , 2019, 9, 1796.	3.3	81
17	Screening of Drug-Transporter Interactions in a 3D Microfluidic Renal Proximal Tubule on a Chip. <i>AAPS Journal</i> , 2018, 20, 87.	4.4	72
18	Enrichment of viable bacteria in a micro-volume by free-flow electrophoresis. <i>Lab on A Chip</i> , 2012, 12, 451-457.	6.0	54

#	ARTICLE	IF	CITATIONS
19	Implementation of a Human Renal Proximal Tubule on a Chip for Nephrotoxicity and Drug Interaction Studies. <i>Journal of Pharmaceutical Sciences</i> , 2021, 110, 1601-1614.	3.3	54
20	Direct On-Chip Differentiation of Intestinal Tubules from Induced Pluripotent Stem Cells. <i>International Journal of Molecular Sciences</i> , 2020, 21, 4964.	4.1	49
21	An Intestine-on-a-Chip Model of Plug-and-Play Modularity to Study Inflammatory Processes. <i>SLAS Technology</i> , 2020, 25, 585-597.	1.9	49
22	A microfluidic approach for high efficiency extraction of low molecular weight RNA. <i>Lab on A Chip</i> , 2010, 10, 610-616.	6.0	48
23	Culture and analysis of kidney tubuloids and perfused tubuloid cells-on-a-chip. <i>Nature Protocols</i> , 2021, 16, 2023-2050.	12.0	43
24	Optimization and characterization of wafer-level adhesive bonding with patterned dry-film photoresist for 3D MEMS integration. <i>Sensors and Actuators A: Physical</i> , 2010, 162, 137-144.	4.1	36
25	Adoption of organ-on-chip platforms by the pharmaceutical industry. <i>Nature Reviews Drug Discovery</i> , 2021, 20, 961-962.	46.4	36
26	Interstitial Flow Recapitulates Gemcitabine Chemoresistance in A 3D Microfluidic Pancreatic Ductal Adenocarcinoma Model by Induction of Multidrug Resistance Proteins. <i>International Journal of Molecular Sciences</i> , 2019, 20, 4647.	4.1	32
27	In vitro grafting of hepatic spheroids and organoids on a microfluidic vascular bed. <i>Angiogenesis</i> , 2022, 25, 455-470.	7.2	31
28	A directional 3D neurite outgrowth model for studying motor axon biology and disease. <i>Scientific Reports</i> , 2021, 11, 2080.	3.3	30
29	Modeling ischemic stroke in a triculture neurovascular unit on-a-chip. <i>Fluids and Barriers of the CNS</i> , 2021, 18, 59.	5.0	30
30	Neuromuscular junctions on a chip: ALS disease modeling and readout development in microfluidic devices. <i>Journal of Neurochemistry</i> , 2021, 157, 393-412.	3.9	26
31	Single-Electrolyte Isotachophoresis Using a Nanochannel-Induced Depletion Zone. <i>Analytical Chemistry</i> , 2011, 83, 7910-7915.	6.5	25
32	Phaseguides as tunable passive microvalves for liquid routing in complex microfluidic networks. <i>Lab on A Chip</i> , 2014, 14, 3334.	6.0	24
33	Robust and Scalable Angiogenesis Assay of Perfused 3D Human iPSC-Derived Endothelium for Anti-Angiogenic Drug Screening. <i>International Journal of Molecular Sciences</i> , 2020, 21, 4804.	4.1	24
34	Phaseguide assisted liquid lamination for magnetic particle-based assays. <i>Lab on A Chip</i> , 2014, 14, 2334-2343.	6.0	20
35	Continuous-Flow Microelectroextraction for Enrichment of Low Abundant Compounds. <i>Analytical Chemistry</i> , 2014, 86, 8048-8056.	6.5	19
36	Long-Lived Human Lymphatic Endothelial Cells to Study Lymphatic Biology and Lymphatic Vessel/Tumor Coculture in a 3D Microfluidic Model. <i>ACS Biomaterials Science and Engineering</i> , 2021, 7, 3030-3042.	5.2	19

#	ARTICLE	IF	CITATIONS
37	Elastomeric microvalves as tunable nanochannels for concentration polarization. <i>Lab on A Chip</i> , 2013, 13, 4810.	6.0	16
38	Tunable Ionic Mobility Filter for Depletion Zone Isotachopheresis. <i>Analytical Chemistry</i> , 2012, 84, 9065-9071.	6.5	15
39	Modelling and Prevention of Acute Kidney Injury through Ischemia and Reperfusion in a Combined Human Renal Proximal Tubule/Blood Vessel-on-a-Chip. <i>Kidney360</i> , 2022, 3, 217-231.	2.1	15
40	Bubble-free electrode actuation for micro-preparative scale electrophoresis of RNA. <i>Lab on A Chip</i> , 2013, 13, 2931.	6.0	13
41	Standardized and Scalable Assay to Study Perfused 3D Angiogenic Sprouting of iPSC-derived Endothelial Cells In Vitro. <i>Journal of Visualized Experiments</i> , 2019, , .	0.3	13
42	Isotachopheretic Phenomena in Electric Field Gradient Focusing: Perspectives for Sample Preparation and Bioassays. <i>Analytical Chemistry</i> , 2014, 86, 4078-4087.	6.5	11
43	Solvent Exchange Module for LC-NMR Hyphenation Using Machine Vision-Controlled Droplet Evaporation. <i>Analytical Chemistry</i> , 2013, 85, 5734-5739.	6.5	7
44	Intestinal Epithelium Tubules on a Chip. <i>Methods in Molecular Biology</i> , 2022, 2373, 87-105.	0.9	2