Paul Vulto

List of Publications by Year
in descending order

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	Intestinal Epithelium Tubules on a Chip. Methods in Molecular Biology, 2022, 2373, 87-105.	0.9	2
2	Modelling and Prevention of Acute Kidney Injury through Ischemia and Reperfusion in a Combined Human Renal Proximal Tubule/Blood Vessel-on-a-Chip. Kidney360, 2022, 3, 217-231.	2.1	15
3	In vitro grafting of hepatic spheroids and organoids on a microfluidic vascular bed. Angiogenesis, 2022, 25, 455-470.	7.2	31
4	Neuromuscular junctionâ€onâ€aâ€chip: ALS disease modeling and readâ€out development in microfluidic devices. Journal of Neurochemistry, 2021, 157, 393-412.	3.9	26
5	Culture and analysis of kidney tubuloids and perfused tubuloid cells-on-a-chip. Nature Protocols, 2021, 16, 2023-2050.	12.0	43
6	Implementation of a Human Renal Proximal Tubule on a Chip for Nephrotoxicity and Drug Interaction Studies. Journal of Pharmaceutical Sciences, 2021, 110, 1601-1614.	3.3	54
7	Long-Lived Human Lymphatic Endothelial Cells to Study Lymphatic Biology and Lymphatic Vessel/Tumor Coculture in a 3D Microfluidic Model. ACS Biomaterials Science and Engineering, 2021, 7, 3030-3042.	5.2	19
8	A directional 3D neurite outgrowth model for studying motor axon biology and disease. Scientific Reports, 2021, 11, 2080.	3.3	30
9	Adoption of organ-on-chip platforms by the pharmaceutical industry. Nature Reviews Drug Discovery, 2021, 20, 961-962.	46.4	36
10	Modeling ischemic stroke in a triculture neurovascular unit on-a-chip. Fluids and Barriers of the CNS, 2021, 18, 59.	5.0	30
11	Direct On-Chip Differentiation of Intestinal Tubules from Induced Pluripotent Stem Cells. International Journal of Molecular Sciences, 2020, 21, 4964.	4.1	49
12	Robust and Scalable Angiogenesis Assay of Perfused 3D Human iPSC-Derived Endothelium for Anti-Angiogenic Drug Screening. International Journal of Molecular Sciences, 2020, 21, 4804.	4.1	24
13	An Intestine-on-a-Chip Model of Plug-and-Play Modularity to Study Inflammatory Processes. SLAS Technology, 2020, 25, 585-597.	1.9	49
14	Biology-inspired microphysiological systems to advance medicines for patient benefit and animal welfare. ALTEX: Alternatives To Animal Experimentation, 2020, 37, 365-394.	1.5	123
15	Development of a Gut-on-a-Chip Model for High Throughput Disease Modeling and Drug Discovery. International Journal of Molecular Sciences, 2019, 20, 5661.	4.1	118
16	Interstitial Flow Recapitulates Gemcitabine Chemoresistance in A 3D Microfluidic Pancreatic Ductal Adenocarcinoma Model by Induction of Multidrug Resistance Proteins. International Journal of Molecular Sciences, 2019, 20, 4647.	4.1	32
17	Automated microfluidic cell culture of stem cell derived dopaminergic neurons. Scientific Reports, 2019, 9, 1796.	3.3	81
18	Standardized and Scalable Assay to Study Perfused 3D Angiogenic Sprouting of iPSC-derived Endothelial Cells In Vitro. Journal of Visualized Experiments, 2019, , .	0.3	13

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19	A perfused human bloodâ€“brain barrier on-a-chip for high-throughput assessment of barrier function and antibody transport. Fluids and Barriers of the CNS, 2018, 15, 23.	5.0	235
20	Screening of Drug-Transporter Interactions in a 3D Microfluidic Renal Proximal Tubule on a Chip. AAPS Journal, 2018, 20, 87.	4.4	72
21	Nephrotoxicity and Kidney Transport Assessment on 3D Perfused Proximal Tubules. AAPS Journal, 2018, 20, 90.	4.4	86
22	An end-user perspective on Organ-on-a-Chip: Assays and usability aspects. Current Opinion in Biomedical Engineering, 2017, 1, 15-22.	3.4	102
23	Membrane-free culture and real-time barrier integrity assessment of perfused intestinal epithelium tubes. Nature Communications, 2017, 8, 262.	12.8	207
24	Therapy response testing of breast cancer in a 3D high-throughput perfused microfluidic platform. BMC Cancer, 2017, 17, 709.	2.6	96
25	Biology-inspired microphysiological system approaches to solve the prediction dilemma of substance testing. ALTEX: Alternatives To Animal Experimentation, 2016, 33, 272-321.	1.5	214
26	High-throughput compound evaluation on 3D networks of neurons and glia in a microfluidic platform. Scientific Reports, 2016, 6, 38856.	3.3	113
27	Kidney-on-a-Chip Technology for Drug-Induced Nephrotoxicity Screening. Trends in Biotechnology, 2016, 34, 156-170.	9.3	279
28	Microfluidic 3D cell culture: from tools to tissue models. Current Opinion in Biotechnology, 2015, 35, 118-126.	6.6	416
29	Differentiation of neuroepithelial stem cells into functional dopaminergic neurons in 3D microfluidic cell culture. Lab on A Chip, 2015, 15, 2419-2428.	6.0	130
30	Lab-on-a-Chip hyphenation with mass spectrometry: strategies for bioanalytical applications. Current Opinion in Biotechnology, 2015, 31, 79-85.	6.6	81
31	Phaseguides as tunable passive microvalves for liquid routing in complex microfluidic networks. Lab on A Chip, 2014, 14, 3334.	6.0	24
32	Phaseguide assisted liquid lamination for magnetic particle-based assays. Lab on A Chip, 2014, 14, 2334-2343.	6.0	20
33	Isotachophoretic Phenomena in Electric Field Gradient Focusing: Perspectives for Sample Preparation and Bioassays. Analytical Chemistry, 2014, 86, 4078-4087.	6.5	11
34	Continuous-Flow Microelectroextraction for Enrichment of Low Abundant Compounds. Analytical Chemistry, 2014, 86, 8048-8056.	6.5	19
35	Microfluidic titer plate for stratified 3D cell culture. Lab on A Chip, 2013, 13, 3548.	6.0	158
36	Elastomeric microvalves as tunable nanochannels for concentration polarization. Lab on A Chip, 2013, 13, 4810.	6.0	16

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37	Bubble-free electrode actuation for micro-preparative scale electrophoresis of RNA. Lab on A Chip, 2013, 13, 2931.	6.0	13
38	Solvent Exchange Module for LC-NMR Hyphenation Using Machine Vision-Controlled Droplet Evaporation. Analytical Chemistry, 2013, 85, 5734-5739.	6.5	7
39	Tunable Ionic Mobility Filter for Depletion Zone Isotachophoresis. Analytical Chemistry, 2012, 84, 9065-9071.	6.5	15
40	Enrichment of viable bacteria in a micro-volume by free-flow electrophoresis. Lab on A Chip, 2012, 12, 451-457.	6.0	54
41	Phaseguides: a paradigm shift in microfluidic priming and emptying. Lab on A Chip, 2011, 11, 1596.	6.0	171
42	Single-Electrolyte Isotachophoresis Using a Nanochannel-Induced Depletion Zone. Analytical Chemistry, 2011, 83, 7910-7915.	6.5	25
43	Optimization and characterization of wafer-level adhesive bonding with patterned dry-film photoresist for 3D MEMS integration. Sensors and Actuators A: Physical, 2010, 162, 137-144.	4.1	36
44	A microfluidic approach for high efficiency extraction of low molecular weight RNA. Lab on A Chip, 2010, 10, 610-616.	6.0	48