

Stefan Giselbrecht

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

59
papers

1,481
citations

21
h-index

38
g-index

70
ext. papers

1,764
ext. citations

9.8
avg. IF

4.49
L-index

#	Paper	IF	Citations
59	Revisiting lab-on-a-chip technology for drug discovery. <i>Nature Reviews Drug Discovery</i> , 2012 , 11, 620-32	64.1	362
58	A chip-based platform for the in vitro generation of tissues in three-dimensional organization. <i>Lab on A Chip</i> , 2007 , 7, 777-85	7.2	85
57	3D tissue culture substrates produced by microthermoforming of pre-processed polymer films. <i>Biomedical Microdevices</i> , 2006 , 8, 191-9	3.7	79
56	Colorectal tumor-on-a-chip system: A 3D tool for precision onco-nanomedicine. <i>Science Advances</i> , 2019 , 5, eaaw1317	14.3	78
55	Advances in DNA-directed immobilization. <i>Current Opinion in Chemical Biology</i> , 2014 , 18, 8-15	9.7	77
54	Thermoforming of film-based biomedical microdevices. <i>Advanced Materials</i> , 2011 , 23, 1311-29	24	76
53	Flexible fluidic microchips based on thermoformed and locally modified thin polymer films. <i>Lab on A Chip</i> , 2008 , 8, 1570-9	7.2	57
52	Automated feature detection and imaging for high-resolution screening of zebrafish embryos. <i>BioTechniques</i> , 2011 , 50, 319-24	2.5	55
51	Overlooked? Underestimated? Effects of Substrate Curvature on Cell Behavior. <i>Trends in Biotechnology</i> , 2019 , 37, 838-854	15.1	51
50	Rapid prototyping of microstructures in polydimethylsiloxane (PDMS) by direct UV-lithography. <i>Lab on A Chip</i> , 2011 , 11, 1368-71	7.2	39
49	Development of an automated imaging pipeline for the analysis of the zebrafish larval kidney. <i>PLoS ONE</i> , 2013 , 8, e82137	3.7	37
48	Fabrication of cell container arrays with overlaid surface topographies. <i>Biomedical Microdevices</i> , 2012 , 14, 95-107	3.7	36
47	Photolithographic patterning of 3D-formed polycarbonate films for targeted cell guiding. <i>Advanced Materials</i> , 2015 , 27, 2621-6	24	32
46	Microthermoforming as a novel technique for manufacturing scaffolds in tissue engineering (CellChips). <i>IET Nanobiotechnology</i> , 2004 , 151, 151-7		30
45	Grow with the Flow: When Morphogenesis Meets Microfluidics. <i>Advanced Materials</i> , 2019 , 31, e1805764	24	30
44	The chemistry of cyborgs--interfacing technical devices with organisms. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 13942-57	16.4	28
43	The three-dimensional cultivation of the carcinoma cell line HepG2 in a perfused chip system leads to a more differentiated phenotype of the cells compared to monolayer culture. <i>Biomedical Materials (Bristol)</i> , 2008 , 3, 034120	3.5	27

42	Liquid polystyrene: a room-temperature photocurable soft lithography compatible pour-and-cure-type polystyrene. <i>Lab on A Chip</i> , 2014 , 14, 2698-708	7.2	23
41	Promotion of osteoblast differentiation in 3D biomaterial micro-chip arrays comprising fibronectin-coated poly(methyl methacrylate) polycarbonate. <i>Biomaterials</i> , 2011 , 32, 8947-56	15.6	23
40	Microcavity arrays as an in vitro model system of the bone marrow niche for hematopoietic stem cells. <i>Cell and Tissue Research</i> , 2016 , 364, 573-584	4.2	21
39	Microthermoforming of nanostructured polymer films: a new bonding method for the integration of nanostructures in 3-dimensional cavities. <i>Microsystem Technologies</i> , 2010 , 16, 1221-1231	1.7	21
38	Microthermoforming of flexible, not-buried hollow microstructures for chip-based life sciences applications. <i>IET Nanobiotechnology</i> , 2004 , 151, 163-6		21
37	Differences in morphogenesis of 3D cultured primary human osteoblasts under static and microfluidic growth conditions. <i>Biomaterials</i> , 2014 , 35, 3208-19	15.6	17
36	Biofunctional Micropatterning of Thermoformed 3D Substrates. <i>Advanced Functional Materials</i> , 2014 , 24, 442-450	15.6	17
35	Spatially controlled cell adhesion on three-dimensional substrates. <i>Biomedical Microdevices</i> , 2010 , 12, 787-95	3.7	16
34	Characterization of a chip-based bioreactor for three-dimensional cell cultivation via Magnetic Resonance Imaging. <i>Zeitschrift Fur Medizinische Physik</i> , 2013 , 23, 102-10	7.6	15
33	3D alveolar in vitro model based on epithelialized biomimetically curved culture membranes. <i>Biomaterials</i> , 2021 , 266, 120436	15.6	14
32	DNA-SMART: Biopatterned Polymer Film Microchannels for Selective Immobilization of Proteins and Cells. <i>Small</i> , 2017 , 13, 1603923	11	13
31	Novel three-dimensional Boyden chamber system for studying transendothelial transport. <i>Lab on A Chip</i> , 2012 , 12, 829-34	7.2	11
30	The famous versus the inconvenient - or the dawn and the rise of 3D-culture systems. <i>World Journal of Stem Cells</i> , 2009 , 1, 43-8	5.6	11
29	Closer to nature-bio-inspired patterns by transforming latent lithographic images. <i>Advanced Materials</i> , 2011 , 23, 4873-9	24	9
28	Intestinal Organoid Culture in Polymer Film-Based Microwell Arrays. <i>Advanced Biology</i> , 2020 , 4, e2000126	5.5	8
27	Numerics made easy: solving the Navier-Stokes equation for arbitrary channel cross-sections using Microsoft Excel. <i>Biomedical Microdevices</i> , 2016 , 18, 52	3.7	8
26	A New Microengineered Platform for 4D Tracking of Single Cells in a Stem-Cell-Based In Vitro Morphogenesis Model. <i>Advanced Materials</i> , 2020 , 32, e1907966	24	7
25	SCREENED: A Multistage Model of Thyroid Gland Function for Screening Endocrine-Disrupting Chemicals in a Biologically Sex-Specific Manner. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	6

24	A Microcavity Array-Based 3D Model System of the Hematopoietic Stem Cell Niche. <i>Methods in Molecular Biology</i> , 2019 , 2017, 85-95	1.4	5
23	Fabrication of a self-assembled honeycomb nanofibrous scaffold to guide endothelial morphogenesis. <i>Biofabrication</i> , 2020 , 12, 045001	10.5	5
22	Further development of microstructured culture systems and their use in tissue engineering. <i>Biomedizinische Technik</i> , 2002 , 47 Suppl 1 Pt 1, 373-6	1.3	5
21	Microfabrication of chip-sized scaffolds for three-dimensional cell cultivation. <i>Journal of Visualized Experiments</i> , 2008 ,	1.6	3
20	Ten steps to investigate a cellular system with mathematical modeling. <i>PLoS Computational Biology</i> , 2021 , 17, e1008921	5	3
19	Mechanical Properties of Bioengineered Corneal Stroma. <i>Advanced Healthcare Materials</i> , 2021 , 10, e2100072	10.7	3
18	Chip-based three-dimensional cell culture in perfused micro-bioreactors. <i>Journal of Visualized Experiments</i> , 2008 ,	1.6	2
17	Chips for Biomaterials and Biomaterials for Chips: Recent Advances at the Interface between Microfabrication and Biomaterials Research. <i>Advanced Healthcare Materials</i> , 2021 , 10, e2100371	10.1	2
16	From Snapshots to Development: Identifying the Gaps in the Development of Stem Cell-based Embryo Models along the Embryonic Timeline. <i>Advanced Science</i> , 2021 , 8, 2004250	13.6	2
15	Reversing Epithelial Polarity in Pluripotent Stem Cell-Derived Intestinal Organoids.. <i>Frontiers in Bioengineering and Biotechnology</i> , 2022 , 10, 879024	5.8	2
14	Multiscale Microstructure for Investigation of Cell-Cell Communication. <i>Small Methods</i> , 2020 , 4, 2000647	12.8	1
13	The Galapagos Chip Platform for High-Throughput Screening of Cell Adhesive Chemical Micropatterns.. <i>Small</i> , 2022 , e2105704	11	1
12	Nanoscale Topographies for Corneal Endothelial Regeneration. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 827	2.6	1
11	From Mice to Men: Generation of Human Blastocyst-Like Structures .. <i>Frontiers in Cell and Developmental Biology</i> , 2022 , 10, 838356	5.7	1
10	Mechanistic Computational Models of Epithelial Cell Transporters-the Adorned Heroes of Pharmacokinetics. <i>Frontiers in Pharmacology</i> , 2021 , 12, 780620	5.6	0
9	Thin fluorinated polymer film microcavity arrays for 3D cell culture and label-free automated feature extraction. <i>Biomaterials Science</i> , 2021 , 9, 7838-7850	7.4	0
8	3D-Zellkulturmodelle auf Basis thermogeformter Polymerfolien. <i>BioSpektrum</i> , 2015 , 21, 169-171	0.1	
7	Single-Cell Tracking: A New Microengineered Platform for 4D Tracking of Single Cells in a Stem-Cell-Based In Vitro Morphogenesis Model (Adv. Mater. 24/2020). <i>Advanced Materials</i> , 2020 , 32, 2070182	24	

- 6 Fabrication of Advanced Microcontainer Arrays for Perfused 3D Cell Culture in Microfluidic Bioreactors **2013**, 81-104
- 5 Novel 3D-Model for the Hematopoietic Stem Cell Niche Using MSC in a KITChip Based Bioreactor. *Blood*, **2011**, 118, 1331-1331 2.2
- 4 Understanding The Marrow Niche: Advanced 3D Model System Allows Functional Analysis Of The Interaction With Human Hematopoietic Progenitor Cells. *Blood*, **2013**, 122, 2462-2462 2.2
- 3 Measurement of Biomimetic Deposition of Calcium Phosphate in Real Time Using Complex Capacitance. *Physica Status Solidi (A) Applications and Materials Science*, **2021**, 218, 2000672 1.6
- 2 Modeling indoxyl sulfate transport in a bioartificial kidney: Two-step binding kinetics or lumped parameters model for uremic toxin clearance?. *Computers in Biology and Medicine*, **2021**, 138, 104912 7
- 1 Polystyrene Pocket Lithography - Sculpting Plastic with Light.. *Advanced Materials*, **2022**, e2200687 24