

Stefan Giselbrecht

List of Publications by Year in descending order

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Version: 2024-02-01

65
papers

2,036
citations

331670

21
h-index

254184

43
g-index

70
all docs

70
docs citations

70
times ranked

3003
citing authors

#	ARTICLE	IF	CITATIONS
1	Revisiting lab-on-a-chip technology for drug discovery. <i>Nature Reviews Drug Discovery</i> , 2012, 11, 620-632.	46.4	422
2	Colorectal tumor-on-a-chip system: A 3D tool for precision onco-nanomedicine. <i>Science Advances</i> , 2019, 5, eaaw1317.	10.3	143
3	Overlooked? Underestimated? Effects of Substrate Curvature on Cell Behavior. <i>Trends in Biotechnology</i> , 2019, 37, 838-854.	9.3	107
4	3D tissue culture substrates produced by microthermoforming of pre-processed polymer films. <i>Biomedical Microdevices</i> , 2006, 8, 191-199.	2.8	100
5	Thermoforming of Film-Based Biomedical Microdevices. <i>Advanced Materials</i> , 2011, 23, 1311-1329.	21.0	98
6	A chip-based platform for the in vitro generation of tissues in three-dimensional organization. <i>Lab on A Chip</i> , 2007, 7, 777-785.	6.0	96
7	Advances in DNA-directed immobilization. <i>Current Opinion in Chemical Biology</i> , 2014, 18, 8-15.	6.1	90
8	Flexible fluidic microchips based on thermoformed and locally modified thin polymer films. <i>Lab on A Chip</i> , 2008, 8, 1570.	6.0	69
9	Automated feature detection and imaging for high-resolution screening of zebrafish embryos. <i>BioTechniques</i> , 2011, 50, 319-324.	1.8	65
10	Development of an Automated Imaging Pipeline for the Analysis of the Zebrafish Larval Kidney. <i>PLoS ONE</i> , 2013, 8, e82137.	2.5	60
11	Rapid prototyping of microstructures in polydimethylsiloxane (PDMS) by direct UV-lithography. <i>Lab on A Chip</i> , 2011, 11, 1368.	6.0	48
12	Grow with the Flow: When Morphogenesis Meets Microfluidics. <i>Advanced Materials</i> , 2019, 31, e1805764.	21.0	42
13	Fabrication of cell container arrays with overlaid surface topographies. <i>Biomedical Microdevices</i> , 2012, 14, 95-107.	2.8	40
14	Photolithographic Patterning of 3D-Formed Polycarbonate Films for Targeted Cell Guiding. <i>Advanced Materials</i> , 2015, 27, 2621-2626.	21.0	36
15	The Chemistry of Cyborgs' Interfacing Technical Devices with Organisms. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 13942-13957.	13.8	35
16	Microthermoforming as a novel technique for manufacturing scaffolds in tissue engineering (CellChips®). <i>IET Nanobiotechnology</i> , 2004, 151, 151.	2.1	33
17	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.	3.3	30
18	Promotion of osteoblast differentiation in 3D biomaterial micro-chip arrays comprising fibronectin-coated poly(methyl methacrylate) polycarbonate. <i>Biomaterials</i> , 2011, 32, 8947-8956.	11.4	30

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19	Liquid polystyrene: a room-temperature photocurable soft lithography compatible pour-and-cure-type polystyrene. <i>Lab on A Chip</i> , 2014, 14, 2698-2708.	6.0	30
20	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.	2.9	30
21	3D alveolar in vitro model based on epithelialized biomimetically curved culture membranes. <i>Biomaterials</i> , 2021, 266, 120436.	11.4	29
22	3D Lung-on-Chip Model Based on Biomimetically Microcurved Culture Membranes. <i>ACS Biomaterials Science and Engineering</i> , 2022, 8, 2684-2699.	5.2	27
23	Differences in morphogenesis of 3D cultured primary human osteoblasts under static and microfluidic growth conditions. <i>Biomaterials</i> , 2014, 35, 3208-3219.	11.4	24
24	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.	2.0	22
25	Intestinal Organoid Culture in Polymer Film-Based Microwell Arrays. <i>Advanced Biology</i> , 2020, 4, e2000126.	3.0	22
26	Microthermoforming of flexible, not-buried hollow microstructures for chip-based life sciences applications. <i>IET Nanobiotechnology</i> , 2004, 151, 163.	2.1	21
27	Mechanical Properties of Bioengineered Corneal Stroma. <i>Advanced Healthcare Materials</i> , 2021, 10, e2100972.	7.6	21
28	Biofunctional Micropatterning of Thermoformed 3D Substrates. <i>Advanced Functional Materials</i> , 2014, 24, 442-450.	14.9	19
29	Spatially controlled cell adhesion on three-dimensional substrates. <i>Biomedical Microdevices</i> , 2010, 12, 787-795.	2.8	18
30	Characterization of a chip-based bioreactor for three-dimensional cell cultivation via Magnetic Resonance Imaging. <i>Zeitschrift Fur Medizinische Physik</i> , 2013, 23, 102-110.	1.5	18
31	Reversing Epithelial Polarity in Pluripotent Stem Cell-Derived Intestinal Organoids. <i>Frontiers in Bioengineering and Biotechnology</i> , 2022, 10, 879024.	4.1	16
32	DNA-SMART: Biopatterned Polymer Film Microchannels for Selective Immobilization of Proteins and Cells. <i>Small</i> , 2017, 13, 1603923.	10.0	15
33	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, 3648.	4.1	15
34	The famousversusthe inconvenient - or the dawn and the rise of 3D-culture systems. <i>World Journal of Stem Cells</i> , 2009, 1, 43.	2.8	15
35	Closer to Nature – Bio-Inspired Patterns by Transforming Latent Lithographic Images. <i>Advanced Materials</i> , 2011, 23, 4873-4879.	21.0	13
36	Novel three-dimensional Boyden chamber system for studying transendothelial transport. <i>Lab on A Chip</i> , 2012, 12, 829.	6.0	12

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37	Numerics made easy: solving the Navier–Stokes equation for arbitrary channel cross-sections using Microsoft Excel. <i>Biomedical Microdevices</i> , 2016, 18, 52.	2.8	12
38	Challenges to, and prospects for, reverse engineering the gastrointestinal tract using organoids. <i>Trends in Biotechnology</i> , 2022, 40, 932-944.	9.3	12
39	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.	7.6	11
40	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.	21.0	10
41	Fabrication of a self-assembled honeycomb nanofibrous scaffold to guide endothelial morphogenesis. <i>Biofabrication</i> , 2020, 12, 045001.	7.1	10
42	Nanoscale Topographies for Corneal Endothelial Regeneration. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 827.	2.5	7
43	Assessment of Cell–Material Interactions in Three Dimensions through Dispersed Coaggregation of Microsized Biomaterials into Tissue Spheroids. <i>Small</i> , 2022, 18, .	10.0	7
44	Microfabrication of Chip-sized Scaffolds for Three-dimensional Cell cultivation. <i>Journal of Visualized Experiments</i> , 2008, , .	0.3	6
45	A Microcavity Array-Based 3D Model System of the Hematopoietic Stem Cell Niche. <i>Methods in Molecular Biology</i> , 2019, 2017, 85-95.	0.9	6
46	From Mice to Men: Generation of Human Blastocyst-Like Structures In Vitro. <i>Frontiers in Cell and Developmental Biology</i> , 2022, 10, 838356.	3.7	6
47	FURTHER DEVELOPMENT OF MICROSTRUCTURED CULTURE SYSTEMS AND THEIR USE IN TISSUE ENGINEERING. <i>Biomedizinische Technik</i> , 2002, 47, 373-376.	0.8	5
48	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.	11.2	5
49	Ten steps to investigate a cellular system with mathematical modeling. <i>PLoS Computational Biology</i> , 2021, 17, e1008921.	3.2	5
50	Chip-based Three-dimensional Cell Culture in Perfused Micro-bioreactors. <i>Journal of Visualized Experiments</i> , 2008, , .	0.3	4
51	Mechanistic Computational Models of Epithelial Cell Transporters-the Adorned Heroes of Pharmacokinetics. <i>Frontiers in Pharmacology</i> , 2021, 12, 780620.	3.5	4
52	The Galapagos Chip Platform for High-Throughput Screening of Cell Adhesive Chemical Micropatterns. <i>Small</i> , 2022, 18, e2105704.	10.0	4
53	Polystyrene Pocket Lithography: Sculpting Plastic with Light. <i>Advanced Materials</i> , 2022, 34, e2200687.	21.0	3
54	Multiscale Microstructure for Investigation of Cell–Cell Communication. <i>Small Methods</i> , 2020, 4, 2000647.	8.6	2

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55	Measurement of Biomimetic Deposition of Calcium Phosphate in Real Time Using Complex Capacitance. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2021, 218, 2000672.	1.8	2
56	Thin fluorinated polymer film microcavity arrays for 3D cell culture and label-free automated feature extraction. <i>Biomaterials Science</i> , 2021, 9, 7838-7850.	5.4	2
57	The Influence of OAT1 Density and Functionality on Indoxyl Sulfate Transport in the Human Proximal Tubule: An Integrated Computational and In Vitro Study. <i>Toxins</i> , 2021, 13, 674.	3.4	1
58	Modeling indoxyl sulfate transport in a bioartificial kidney: Two-step binding kinetics or lumped parameters model for uremic toxin clearance?. <i>Computers in Biology and Medicine</i> , 2021, 138, 104912.	7.0	1
59	Fabrication of Advanced Microcontainer Arrays for Perfused 3D Cell Culture in Microfluidic Bioreactors. , 2013, , 81-104.		0
60	Organotypic tissue models in MRI method development. <i>Zeitschrift Fur Medizinische Physik</i> , 2014, 24, 89-90.	1.5	0
61	Microfluidic Devices: DNA-SMART: Biopatterned Polymer Film Microchannels for Selective Immobilization of Proteins and Cells (<i>Small</i> 17/2017). <i>Small</i> , 2017, 13, .	10.0	0
62	Protocol for intelligent high-content screening of zebrafish embryos on a standard widefield screening microscope. <i>BioTechniques</i> , 2017, 62, xx.	1.8	0
63	Single-Cell Tracking: A New Microengineered Platform for 4D Tracking of Single Cells in a Stem-Cell-Based In Vitro Morphogenesis Model (<i>Adv. Mater.</i> 24/2020). <i>Advanced Materials</i> , 2020, 32, 2070182.	21.0	0
64	Novel 3D-Model for the Hematopoietic Stem Cell Niche Using MSC in a KITChip Based Bioreactor. <i>Blood</i> , 2011, 118, 1331-1331.	1.4	0
65	Understanding The Marrow Niche: Advanced 3D Model System Allows Functional Analysis Of The Interaction With Human Hematopoietic Progenitor Cells. <i>Blood</i> , 2013, 122, 2462-2462.	1.4	0