# Stefan Giselbrecht

## List of Publications by Year in Descending Order



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| 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 | The Galapagos Chip Platform for High-Throughput Screening of Cell Adhesive Chemical Micropatterns.. *Small*, **2022**, e2105704 | 11 | 1 |
| 58 | From Mice to Men: Generation of Human Blastocyst-Like Structures .. *Frontiers in Cell and Developmental Biology*, **2022**, 10, 838356 | 5.7 | 1 |
| 57 | Polystyrene Pocket Lithography - Sculpting Plastic with Light.. *Advanced Materials*, **2022**, e2200687 | 24 | |
| 56 | Reversing Epithelial Polarity in Pluripotent Stem Cell-Derived Intestinal Organoids.. *Frontiers in Bioengineering and Biotechnology*, **2022**, 10, 879024 | 5.8 | 2 |
| 55 | Mechanistic Computational Models of Epithelial Cell Transporters-the Adorned Heroes of Pharmacokinetics. *Frontiers in Pharmacology*, **2021**, 12, 780620 | 5.6 | 0 |
| 54 | Thin fluorinated polymer film microcavity arrays for 3D cell culture and label-free automated feature extraction. *Biomaterials Science*, **2021**, 9, 7838-7850 | 7.4 | 0 |
| 53 | Chips for Biomaterials and Biomaterials for Chips: Recent Advances at the Interface between Microfabrication and Biomaterials Research. *Advanced Healthcare Materials*, **2021**, 10, e2100371 | 10.1 | 2 |
| 52 | Ten steps to investigate a cellular system with mathematical modeling. *PLoS Computational Biology* , **2021**, 17, e1008921 | 5 | 3 |
| 51 | 3D alveolar in vitro model based on epithelialized biomimetically curved culture membranes. *Biomaterials*, **2021**, 266, 120436 | 15.6 | 14 |
| 50 | 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 | |
| 49 | From Snapshots to Development: Identifying the Gaps in the Development of Stem Cell-based Embryo Models along the Embryonic Timeline. *Advanced Science*, **2021**, 8, 2004250 | 13.6 | 2 |
| 48 | Mechanical Properties of Bioengineered Corneal Stroma. *Advanced Healthcare Materials*, **2021**, 10, e2100972 | 10.1 | 3 |
| 47 | 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 | |
| 46 | Nanoscale Topographies for Corneal Endothelial Regeneration. *Applied Sciences (Switzerland)*, **2021** , 11, 827 | 2.6 | 1 |
| 45 | Multiscale Microstructure for Investigation of Cell–Cell Communication. *Small Methods*, **2020**, 4, 2000647 | 12.8 | 1 |
| 44 | A New Microengineered Platform for 4D Tracking of Single Cells in a Stem-Cell-Based In Vitro Morphogenesis Model. *Advanced Materials*, **2020**, 32, e1907966 | 24 | 7 |
| 43 | 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). *Advanced Materials*, **2020**, 32, 2070182 | 24 | |

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| 42 | Fabrication of a self-assembled honeycomb nanofibrous scaffold to guide endothelial morphogenesis. *Biofabrication*, **2020**, 12, 045001 | 10.5 | 5 |
| 41 | SCREENED: A Multistage Model of Thyroid Gland Function for Screening Endocrine-Disrupting Chemicals in a Biologically Sex-Specific Manner. *International Journal of Molecular Sciences*, **2020**, 21, | 6.3 | 6 |
| 40 | Intestinal Organoid Culture in Polymer Film-Based Microwell Arrays. *Advanced Biology*, **2020**, 4, e2000126 | 3.5 | 8 |
| 39 | Colorectal tumor-on-a-chip system: A 3D tool for precision onco-nanomedicine. *Science Advances*, **2019**, 5, eaaw1317 | 14.3 | 78 |
| 38 | A Microcavity Array-Based 3D Model System of the Hematopoietic Stem Cell Niche. *Methods in Molecular Biology*, **2019**, 2017, 85-95 | 1.4 | 5 |
| 37 | Overlooked? Underestimated? Effects of Substrate Curvature on Cell Behavior. *Trends in Biotechnology*, **2019**, 37, 838-854 | 15.1 | 51 |
| 36 | Grow with the Flow: When Morphogenesis Meets Microfluidics. *Advanced Materials*, **2019**, 31, e1805764 | 24 | 30 |
| 35 | DNA-SMART: Biopatterned Polymer Film Microchannels for Selective Immobilization of Proteins and Cells. *Small*, **2017**, 13, 1603923 | 11 | 13 |
| 34 | Microcavity arrays as an in vitro model system of the bone marrow niche for hematopoietic stem cells. *Cell and Tissue Research*, **2016**, 364, 573-584 | 4.2 | 21 |
| 33 | Numerics made easy: solving the Navier-Stokes equation for arbitrary channel cross-sections using Microsoft Excel. *Biomedical Microdevices*, **2016**, 18, 52 | 3.7 | 8 |
| 32 | 3D-Zellkulturmodelle auf Basis thermogeformter Polymerfolien. *BioSpektrum*, **2015**, 21, 169-171 | 0.1 | |
| 31 | Photolithographic patterning of 3D-formed polycarbonate films for targeted cell guiding. *Advanced Materials*, **2015**, 27, 2621-6 | 24 | 32 |
| 30 | Differences in morphogenesis of 3D cultured primary human osteoblasts under static and microfluidic growth conditions. *Biomaterials*, **2014**, 35, 3208-19 | 15.6 | 17 |
| 29 | Advances in DNA-directed immobilization. *Current Opinion in Chemical Biology*, **2014**, 18, 8-15 | 9.7 | 77 |
| 28 | Liquid polystyrene: a room-temperature photocurable soft lithography compatible pour-and-cure-type polystyrene. *Lab on A Chip*, **2014**, 14, 2698-708 | 7.2 | 23 |
| 27 | Biofunctional Micropatterning of Thermoformed 3D Substrates. *Advanced Functional Materials*, **2014**, 24, 442-450 | 15.6 | 17 |
| 26 | Fabrication of Advanced Microcontainer Arrays for Perfused 3D Cell Culture in Microfluidic Bioreactors **2013**, 81-104 | | |
| 25 | Characterization of a chip-based bioreactor for three-dimensional cell cultivation via Magnetic Resonance Imaging. *Zeitschrift Fur Medizinische Physik*, **2013**, 23, 102-10 | 7.6 | 15 |

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| 24 | The chemistry of cyborgs--interfacing technical devices with organisms. *Angewandte Chemie - International Edition*, **2013**, 52, 13942-57 | 16.4 | 28 |
| 23 | Development of an automated imaging pipeline for the analysis of the zebrafish larval kidney. *PLoS ONE*, **2013**, 8, e82137 | 3.7 | 37 |
| 22 | 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 | |
| 21 | Fabrication of cell container arrays with overlaid surface topographies. *Biomedical Microdevices*, **2012**, 14, 95-107 | 3.7 | 36 |
| 20 | Novel three-dimensional Boyden chamber system for studying transendothelial transport. *Lab on A Chip*, **2012**, 12, 829-34 | 7.2 | 11 |
| 19 | Revisiting lab-on-a-chip technology for drug discovery. *Nature Reviews Drug Discovery*, **2012**, 11, 620-32 | 64.1 | 362 |
| 18 | Automated feature detection and imaging for high-resolution screening of zebrafish embryos. *BioTechniques*, **2011**, 50, 319-24 | 2.5 | 55 |
| 17 | Promotion of osteoblast differentiation in 3D biomaterial micro-chip arrays comprising fibronectin-coated poly(methyl methacrylate) polycarbonate. *Biomaterials*, **2011**, 32, 8947-56 | 15.6 | 23 |
| 16 | Rapid prototyping of microstructures in polydimethylsiloxane (PDMS) by direct UV-lithography. *Lab on A Chip*, **2011**, 11, 1368-71 | 7.2 | 39 |
| 15 | Thermoforming of film-based biomedical microdevices. *Advanced Materials*, **2011**, 23, 1311-29 | 24 | 76 |
| 14 | Closer to nature-bio-inspired patterns by transforming latent lithographic images. *Advanced Materials*, **2011**, 23, 4873-9 | 24 | 9 |
| 13 | Novel 3D-Model for the Hematopoietic Stem Cell Niche Using MSC in a KITChip Based Bioreactor. *Blood*, **2011**, 118, 1331-1331 | 2.2 | |
| 12 | Microthermoforming of nanostructured polymer films: a new bonding method for the integration of nanostructures in 3-dimensional cavities. *Microsystem Technologies*, **2010**, 16, 1221-1231 | 1.7 | 21 |
| 11 | Spatially controlled cell adhesion on three-dimensional substrates. *Biomedical Microdevices*, **2010**, 12, 787-95 | 3.7 | 16 |
| 10 | The famous versus the inconvenient - or the dawn and the rise of 3D-culture systems. *World Journal of Stem Cells*, **2009**, 1, 43-8 | 5.6 | 11 |
| 9 | 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. *Biomedical Materials (Bristol)*, **2008**, 3, 034120 | 3.5 | 27 |
| 8 | Flexible fluidic microchips based on thermoformed and locally modified thin polymer films. *Lab on A Chip*, **2008**, 8, 1570-9 | 7.2 | 57 |
| 7 | Chip-based three-dimensional cell culture in perfused micro-bioreactors. *Journal of Visualized Experiments*, **2008**, | 1.6 | 2 |

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| 6 | Microfabrication of chip-sized scaffolds for three-dimensional cell cultivation. *Journal of Visualized Experiments*, **2008**, | 1.6 | 3 |
| 5 | A chip-based platform for the in vitro generation of tissues in three-dimensional organization. *Lab on A Chip*, **2007**, 7, 777-85 | 7.2 | 85 |
| 4 | 3D tissue culture substrates produced by microthermoforming of pre-processed polymer films. *Biomedical Microdevices*, **2006**, 8, 191-9 | 3.7 | 79 |
| 3 | Microthermoforming of flexible, not-buried hollow microstructures for chip-based life sciences applications. *IET Nanobiotechnology*, **2004**, 151, 163-6 | | 21 |
| 2 | Microthermoforming as a novel technique for manufacturing scaffolds in tissue engineering (CellChips). *IET Nanobiotechnology*, **2004**, 151, 151-7 | | 30 |
| 1 | Further development of microstructured culture systems and their use in tissue engineering. *Biomedizinische Technik*, **2002**, 47 Suppl 1 Pt 1, 373-6 | 1.3 | 5 |