

Publications Prof. Dr. Michael J. Vellekoop (01/01/2020)

Journals, Book Chapters, Editorships, and International Conferences (peer reviewed)

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- 373** Liu H-Y, Claudia Hille, Anna Haller, Simon A. Joesse, Ravi Kumar, Michael J. Vellekoop, Ludwig J. Horst, Laura Keller, Antonio Virgilio Failla, Jana Jensen, Sven Peine, Franz Keplinger, Harald Fuchs, Klaus Pantel and Michael Hirtz, "Evaluation of Microfluidic Ceiling Designs for the Capture of Circulating Tumor Cells on a Microarray Platform", accepted for publication in *Advanced Biosystems* 2019.
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- 371 Ahmed T, van den Driesche S, Bafna JA, Oellers M, Hemmler R, Gall K, Wagner R, Winterhalter M, Vellekoop MJ, "Parylene-C coated micro-apertures with painted synthetic lipid bilayer membranes for the investigation of outer-membrane-vesicle fusion", *Proc. of the IEEE Sensors Conference* 2019.
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- 369** Joswig L, Vellekoop MJ, Lucklum F, "Miniature 3D-printed centrifugal pump with non-contact electro-magnetic actuation", accepted for publication in *Micromachines* 2019.
- 368** Konermann C, Bunge F, van den Driesche S, Vellekoop MJ, "Microfluidic sensor system for initial growth rate determination of small bacteria samples", *IEEE Sensors Journal* 2019.
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- 364 Reede S, Bunge F, Oellers M, Vellekoop MJ, "A PROCESS TO REALIZE DIRECT LASER WRITTEN ELECTROSTATIC ACTUATOR ELEMENTS IN A CLOSED MICROCAVITY", *Proc. Transducers* 2019, 106-109.
- 363 Lucklum F, Mukhin N, Vellekoop MJ, Lucklum R, "Phononic Crystal Sensors: 2D, 2.5D and 3D Designs and Realizations" *Phononics* 2019, 55-56 (*invited*).
- 362 Lucklum F, Vellekoop MJ, "Design and Fabrication of Tubular Phononic Crystals", *Phononics* 2019, 307-308.
- 361** Bunge F, van den Driesche S, Waespy M, Radtke A, Belge G, Kelm S, Waite A, Mirastschijski U, Vellekoop MJ, "Microfluidic oxygen sensor system as a tool to monitor the metabolism of mammalian cells", *Sensors & Actuators B*, accepted for publication 2019.
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- 360** Bunge F, van den Driesche S, Vellekoop MJ, "PDMS-free Microfluidic Cell Culture with Integrated Gas Supply through a Porous Membrane of Anodized Aluminum Oxide", *Biomedical Microdevices* (2018) 20:98, doi: 10.1007/s10544-018-0343-z.
- 359** Lucklum F, Vellekoop MJ, "Band gap engineering of three-dimensional phononic crystals in a simple cubic lattice", *Appl. Phys. Lett.* 113, 201902, 2018; doi: 10.1063/1.5049663.
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