

# Felix von Stetten

## List of Publications by Year in descending order

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89  
papers

7,296  
citations

87401

40  
h-index

64407

83  
g-index

92  
all docs

92  
docs citations

92  
times ranked

9120  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Multianalyte lateral flow immunoassay for simultaneous detection of protein-based inflammation biomarkers and pathogen DNA. <i>Sensors and Actuators B: Chemical</i> , 2022, 355, 131283.                   | 4.0 | 12        |
| 2  | Microfluidic One-Pot Digital Droplet FISH Using LNA/DNA Molecular Beacons for Bacteria Detection and Absolute Quantification. <i>Biosensors</i> , 2022, 12, 237.  | 2.3 | 3         |
| 3  | Analyzing siRNA Concentration, Complexation and Stability in Cationic Dendriplexes by Stem-Loop Reverse Transcription-qPCR. <i>Pharmaceutics</i> , 2022, 14, 1348.  | 2.0 | 2         |
| 4  | Centrifugal Microfluidic Integration of 4-Plex ddPCR Demonstrated by the Quantification of Cancer-Associated Point Mutations. <i>Processes</i> , 2021, 9, 97.   | 1.3 | 15        |
| 5  | Point-of-Care System for HTLV-1 Proviral Load Quantification by Digital Mediator Displacement LAMP. <i>Micromachines</i> , 2021, 12, 159.   | 1.4 | 3         |
| 6  | Rapid Detection of Pathogens in Wound Exudate via Nucleic Acid Lateral Flow Immunoassay. <i>Biosensors</i> , 2021, 11, 74.  | 2.3 | 15        |
| 7  | Noninvasive Diagnostics: Integrated Devices for Noninvasive Diagnostics ( <i>Adv. Funct. Mater.</i> 15/2021). <i>Advanced Functional Materials</i> , 2021, 31, 2170105.                                     | 7.8 | 2         |
| 8  | Virtual Fluorescence Color Channels by Selective Photobleaching in Digital PCR Applied to the Quantification of KRAS Point Mutations. <i>Analytical Chemistry</i> , 2021, 93, 10538-10545.                  | 3.2 | 9         |
| 9  | Integrated Devices for Noninvasive Diagnostics. <i>Advanced Functional Materials</i> , 2021, 31, 2010388.   | 7.8 | 51        |
| 10 | High Dynamic Range Digital Assay Enabled by Dual-Volume Centrifugal Step Emulsification. <i>Analytical Chemistry</i> , 2021, 93, 2854-2860.   | 3.2 | 10        |
| 11 | OralDisk: A Chair-Side Compatible Molecular Platform Using Whole Saliva for Monitoring Oral Health at the Dental Practice. <i>Biosensors</i> , 2021, 11, 423.   | 2.3 | 13        |
| 12 | Advanced minimal residual disease monitoring for acute lymphoblastic leukemia with multiplex mediator probe PCR. <i>Journal of Molecular Diagnostics</i> , 2021, , .  | 1.2 | 3         |
| 13 | Stringent Base Specific and Optimization-Free Multiplex Mediator Probe ddPCR for the Quantification of Point Mutations in Circulating Tumor DNA. <i>Cancers</i> , 2021, 13, 5742.                           | 1.7 | 3         |
| 14 | Gravity-driven microfluidic assay for digital enumeration of bacteria and for antibiotic susceptibility testing. <i>Lab on A Chip</i> , 2020, 20, 54-63.  | 3.1 | 35        |
| 15 | Loop-mediated isothermal amplification (LAMP) – review and classification of methods for sequence-specific detection. <i>Analytical Methods</i> , 2020, 12, 717-746.  | 1.3 | 237       |
| 16 | VectorDisk: A Microfluidic Platform Integrating Diagnostic Markers for Evidence-Based Mosquito Control. <i>Processes</i> , 2020, 8, 1677.   | 1.3 | 6         |
| 17 | Point-of-care testing system for digital single cell detection of MRSA directly from nasal swabs. <i>Lab on A Chip</i> , 2020, 20, 2549-2561.   | 3.1 | 44        |
| 18 | Multiplex Mediator Displacement Loop-Mediated Isothermal Amplification for Detection of <i>Treponema pallidum</i> and <i>Haemophilus ducreyi</i> . <i>Emerging Infectious Diseases</i> , 2020, 26, 282-288. | 2.0 | 13        |

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|----|--|-----|-----------|
| 19 | Review: Electrochemical DNA sensing “ Principles, commercial systems, and applications. <i>Biosensors and Bioelectronics</i> , 2020, 154, 112069.  | 5.3 | 85        |
| 20 | Versatile Tool for Droplet Generation in Standard Reaction Tubes by Centrifugal Step Emulsification. <i>Molecules</i> , 2020, 25, 1914.  | 1.7 | 15        |
| 21 | Centrifugal Step Emulsification: How Buoyancy Enables High Generation Rates of Monodisperse Droplets. <i>Langmuir</i> , 2019, 35, 9809-9815.   | 1.6 | 24        |
| 22 | Automated serial dilutions for high-dynamic-range assays enabled by fill-level-coupled valving in centrifugal microfluidics. <i>Lab on A Chip</i> , 2019, 19, 2205-2219.   | 3.1 | 14        |
| 23 | Review: a comprehensive summary of a decade development of the recombinase polymerase amplification. <i>Analyst, The</i> , 2019, 144, 31-67.   | 1.7 | 386       |
| 24 | Simplified Real-Time Multiplex Detection of Loop-Mediated Isothermal Amplification Using Novel Mediator Displacement Probes with Universal Reporters. <i>Analytical Chemistry</i> , 2018, 90, 4741-4748.                         | 3.2 | 43        |
| 25 | Diagnostic tools for tackling febrile illness and enhancing patient management. <i>Microelectronic Engineering</i> , 2018, 201, 26-59.   | 1.1 | 18        |
| 26 | Fluorescence signal-to-noise optimisation for real-time PCR using universal reporter oligonucleotides. <i>Analytical Methods</i> , 2018, 10, 3444-3454.  | 1.3 | 12        |
| 27 | A Smartphone-Based Colorimetric Reader for Human C-Reactive Protein Immunoassay. <i>Methods in Molecular Biology</i> , 2017, 1571, 343-356.  | 0.4 | 8         |
| 28 | A technology platform for digital nucleic acid diagnostics at the point of care. <i>Laboratoriums Medizin</i> , 2017, 41, 245-249.   | 0.1 | 4         |
| 29 | Simplified development of multiplex real-time PCR through master mix augmented by universal fluorogenic reporters. <i>BioTechniques</i> , 2016, 61, 123-128.   | 0.8 | 8         |
| 30 | Digital droplet LAMP as a microfluidic app on standard laboratory devices. <i>Analytical Methods</i> , 2016, 8, 2750-2755.   | 1.3 | 46        |
| 31 | Microfluidic solutions enabling continuous processing and monitoring of biological samples: A review. <i>Analytica Chimica Acta</i> , 2016, 929, 1-22.   | 2.6 | 61        |
| 32 | Digital droplet PCR on disk. <i>Lab on A Chip</i> , 2016, 16, 208-216.   | 3.1 | 114       |
| 33 | Monochrome Multiplexing in Polymerase Chain Reaction by Photobleaching of Fluorogenic Hydrolysis Probes. <i>Analytical Chemistry</i> , 2016, 88, 2590-2595.  | 3.2 | 8         |
| 34 | LabDisk for SAXS: a centrifugal microfluidic sample preparation platform for small-angle X-ray scattering. <i>Lab on A Chip</i> , 2016, 16, 1161-1170.   | 3.1 | 44        |
| 35 | LabDisk with complete reagent prestorage for sample-to-answer nucleic acid based detection of respiratory pathogens verified with influenza A H3N2 virus. <i>Lab on A Chip</i> , 2016, 16, 199-207.                              | 3.1 | 113       |
| 36 | Chair/bedside diagnosis of oral and respiratory tract infections, and identification of antibiotic resistances for personalised monitoring and treatment. <i>Studies in Health Technology and Informatics</i> , 2016, 224, 61-6. | 0.2 | 15        |

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|----|--|------|-----------|
| 37 | Automated Forensic Animal Family Identification by Nested PCR and Melt Curve Analysis on an Off-the-Shelf Thermocycler Augmented with a Centrifugal Microfluidic Disk Segment. <i>PLoS ONE</i> , 2015, 10, e0131845.                   | 1.1  | 17        |
| 38 | Centrifugal Step Emulsification can Produce Water in Oil Emulsions with Extremely High Internal Volume Fractions. <i>Micromachines</i> , 2015, 6, 1180-1188.   | 1.4  | 20        |
| 39 | Centrifugal microfluidic platforms: advanced unit operations and applications. <i>Chemical Society Reviews</i> , 2015, 44, 6187-6229.  | 18.7 | 351       |
| 40 | Rapid and fully automated bacterial pathogen detection on a centrifugal-microfluidic LabDisk using highly sensitive nested PCR with integrated sample preparation. <i>Lab on A Chip</i> , 2015, 15, 3749-3759.                         | 3.1  | 121       |
| 41 | Centrifugal step emulsification applied for absolute quantification of nucleic acids by digital droplet RPA. <i>Lab on A Chip</i> , 2015, 15, 2759-2766.   | 3.1  | 150       |
| 42 | Graphene-based rapid and highly-sensitive immunoassay for C-reactive protein using a smartphone-based colorimetric reader. <i>Biosensors and Bioelectronics</i> , 2015, 66, 169-176.   | 5.3  | 75        |
| 43 | Electrochemical pesticide detection with AutoDip – a portable platform for automation of crude sample analyses. <i>Lab on A Chip</i> , 2015, 15, 704-710.  | 3.1  | 26        |
| 44 | A smartphone-based colorimetric reader for bioanalytical applications using the screen-based bottom illumination provided by gadgets. <i>Biosensors and Bioelectronics</i> , 2015, 67, 248-255.  | 5.3  | 201       |
| 45 | Real-time stability testing of dried primers and fluorogenic hydrolysis probes stabilized by trehalose and xanthan. <i>BioTechniques</i> , 2014, 57, 151-155.  | 0.8  | 17        |
| 46 | Rapid Molecular Assays for the Detection of Yellow Fever Virus in Low-Resource Settings. <i>PLoS Neglected Tropical Diseases</i> , 2014, 8, e2730.   | 1.3  | 94        |
| 47 | Centrifugal LabTube platform for fully automated DNA purification and LAMP amplification based on an integrated, low-cost heating system. <i>Biomedical Microdevices</i> , 2014, 16, 375-85.   | 1.4  | 13        |
| 48 | Multiplex genotyping of KRAS point mutations in tumor cell DNA by allele-specific real-time PCR on a centrifugal microfluidic disk segment. <i>Mikrochimica Acta</i> , 2014, 181, 1681-1688.   | 2.5  | 19        |
| 49 | Lamination of polyethylene composite films by ultrasonic welding: Investigation of peel behavior and identification of optimum welding parameters. <i>Journal of Applied Polymer Science</i> , 2014, 131, .                            | 1.3  | 5         |
| 50 | Mediator Probe PCR: Detection of Real-Time PCR by Label-Free Probes and a Universal Fluorogenic Reporter. <i>Methods in Molecular Biology</i> , 2014, 1160, 55-73.   | 0.4  | 4         |
| 51 | Real-time PCR based detection of a panel of food-borne pathogens on a centrifugal microfluidic “LabDisk” with on-disk quality controls and standards for quantification. <i>Analytical Methods</i> , 2014, 6, 2038.                    | 1.3  | 42        |
| 52 | One-step kinetics-based immunoassay for the highly sensitive detection of C-reactive protein in less than 30min. <i>Analytical Biochemistry</i> , 2014, 456, 32-37.  | 1.1  | 62        |
| 53 | A versatile-deployable bacterial detection system for food and environmental safety based on LabTube-automated DNA purification, LabReader-integrated amplification, readout and analysis. <i>Analyst</i> , The, 2014, 139, 2788-2798. | 1.7  | 7         |
| 54 | Miniature stick-packaging – an industrial technology for pre-storage and release of reagents in lab-on-a-chip systems. <i>Lab on A Chip</i> , 2013, 13, 2888.  | 3.1  | 83        |

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|----|--|------|-----------|
| 55 | Current Methods for Fluorescence-Based Universal Sequence-Dependent Detection of Nucleic Acids in Homogenous Assays and Clinical Applications. <i>Clinical Chemistry</i> , 2013, 59, 1567-1582.  | 1.5  | 35        |
| 56 | Rapid and highly sensitive luciferase reporter assay for the automated detection of botulinum toxin in the centrifugal microfluidic LabDisk platform. <i>RSC Advances</i> , 2013, 3, 22046.  | 1.7  | 14        |
| 57 | Centrifugal gas-phase transition magnetophoresis (GTM) – a generic method for automation of magnetic bead based assays on the centrifugal microfluidic platform and application to DNA purification. <i>Lab on A Chip</i> , 2013, 13, 146-155. | 3.1  | 56        |
| 58 | Active Continuous-Flow Micromixer Using an External Braille Pin Actuator Array. <i>Micromachines</i> , 2013, 4, 80-89.   | 1.4  | 37        |
| 59 | Microfluidic Apps for off-the-shelf instruments. <i>Lab on A Chip</i> , 2012, 12, 2464.  | 3.1  | 37        |
| 60 | Mediator Probe PCR: A Novel Approach for Detection of Real-Time PCR Based on Label-Free Primary Probes and Standardized Secondary Universal Fluorogenic Reporters. <i>Clinical Chemistry</i> , 2012, 58, 1546-1556.                            | 1.5  | 24        |
| 61 | Solid-phase PCR in a picowell array for immobilizing and arraying 100,000 PCR products to a microscope slide. <i>Lab on A Chip</i> , 2012, 12, 3049.   | 3.1  | 34        |
| 62 | Centrifugo-dynamic inward pumping of liquids on a centrifugal microfluidic platform. <i>Lab on A Chip</i> , 2012, 12, 5142.  | 3.1  | 64        |
| 63 | Universal protocol for grafting PCR primers onto various lab-on-a-chip substrates for solid-phase PCR. <i>RSC Advances</i> , 2012, 2, 3885.  | 1.7  | 24        |
| 64 | Microfluidic cartridges for DNA purification and genotyping processed in standard laboratory instruments. <i>Proceedings of SPIE</i> , 2011, , .   | 0.8  | 3         |
| 65 | Controlled counter-flow motion of magnetic bead chains rolling along microchannels. <i>Microfluidics and Nanofluidics</i> , 2011, 10, 935-939.   | 1.0  | 30        |
| 66 | Aliquoting on the centrifugal microfluidic platform based on centrifugo-pneumatic valves. <i>Microfluidics and Nanofluidics</i> , 2011, 10, 1279-1288.   | 1.0  | 75        |
| 67 | Strategies to extend the lifetime of bioelectrochemical enzyme electrodes for biosensing and biofuel cell applications. <i>Applied Microbiology and Biotechnology</i> , 2011, 89, 1315-1322.   | 1.7  | 53        |
| 68 | Strategies for the Fabrication of Porous Platinum Electrodes. <i>Advanced Materials</i> , 2011, 23, 4976-5008.   | 11.1 | 171       |
| 69 | IR thermocycler for centrifugal microfluidic platform with direct on-disk wireless temperature measurement system. , 2011, , .   |      | 9         |
| 70 | Carbon electrodes for direct electron transfer type laccase cathodes investigated by current density–cathode potential behavior. <i>Biosensors and Bioelectronics</i> , 2010, 26, 841-845.   | 5.3  | 54        |
| 71 | Continuous microfluidic DNA extraction using phase-transfer magnetophoresis. <i>Lab on A Chip</i> , 2010, 10, 3284.  | 3.1  | 86        |
| 72 | Microfluidic lab-on-a-foil for nucleic acid analysis based on isothermal recombinase polymerase amplification (RPA). <i>Lab on A Chip</i> , 2010, 10, 887.   | 3.1  | 308       |

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|----|--|------|-----------|
| 73 | Microfluidic lab-on-a-chip platforms: requirements, characteristics and applications. Chemical Society Reviews, 2010, 39, 1153.  | 18.7 | 1,366     |
| 74 | Pre-storage of liquid reagents in glass ampoules for DNA extraction on a fully integrated lab-on-a-chip cartridge. Lab on A Chip, 2010, 10, 1480.  | 3.1  | 58        |
| 75 | Smaller structures taking the lead - analysis and simulation of structure size influences on binding kinetics down to the single molecule level. , 2010, , .   |      | 0         |
| 76 | Lab-on-a-Foil: microfluidics on thin and flexible films. Lab on A Chip, 2010, 10, 1365.  | 3.1  | 228       |
| 77 | Centrifugal microfluidic system for primary amplification and secondary real-time PCR. Lab on A Chip, 2010, 10, 3210.  | 3.1  | 78        |
| 78 | Microstructuring of polymer films for sensitive genotyping by real-time PCR on a centrifugal microfluidic platform. Lab on A Chip, 2010, 10, 2519.   | 3.1  | 108       |
| 79 | Centrifugo-pneumatic valve for metering of highly wetting liquids on centrifugal microfluidic platforms. Lab on A Chip, 2009, 9, 3599.   | 3.1  | 72        |
| 80 | A Novel Microfluidic Platform for Continuous DNA Extraction and Purification using Laminar Flow Magnetophoresis. , 2009, , .   |      | 11        |
| 81 | Energy harvesting by implantable abiotically catalyzed glucose fuel cells. Journal of Power Sources, 2008, 182, 1-17.  | 4.0  | 345       |
| 82 | An abiotically catalyzed glucose fuel cell for powering medical implants: Reconstructed manufacturing protocol and analysis of performance. Journal of Power Sources, 2008, 182, 66-75.  | 4.0  | 105       |
| 83 | Healthy Aims: Developing New Medical Implants and Diagnostic Equipment. IEEE Pervasive Computing, 2008, 7, 14-21.  | 1.1  | 44        |
| 84 | Alginate bead fabrication and encapsulation of living cells under centrifugally induced artificial gravity conditions. Journal of Microencapsulation, 2008, 25, 267-274.   | 1.2  | 62        |
| 85 | The centrifugal microfluidic Bio-Disk platform. Journal of Micromechanics and Microengineering, 2007, 17, S103-S115.   | 1.5  | 521       |
| 86 | Reliable and Rapid Identification of <i>Listeria monocytogenes</i> and <i>Listeria</i> Species by Artificial Neural Network-Based Fourier Transform Infrared Spectroscopy. Applied and Environmental Microbiology, 2006, 72, 994-1000. | 1.4  | 107       |
| 87 | Climatic influence on mesophilic <i>Bacillus cereus</i> and psychrotolerant <i>Bacillus weihenstephanensis</i> populations in tropical, temperate and alpine soil. Environmental Microbiology, 1999, 1, 503.                           | 1.8  | 69        |
| 88 | Rapid discrimination of psychrotolerant and mesophilic strains of the <i>Bacillus cereus</i> group by PCR targeting of 16S rDNA. Journal of Microbiological Methods, 1998, 34, 99-106.   | 0.7  | 56        |
| 89 | Discrimination of Psychrotrophic and Mesophilic Strains of the <i>Bacillus cereus</i> Group by PCR Targeting of Major Cold Shock Protein Genes. Applied and Environmental Microbiology, 1998, 64, 3525-3529.                           | 1.4  | 115       |