

# David J Kinahan

## List of Publications by Year in descending order

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32  
papers

848  
citations

471061

17  
h-index

525886

27  
g-index

32  
all docs

32  
docs citations

32  
times ranked

770  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | CD-Based Microfluidics for Primary Care in Extreme Point-of-Care Settings. <i>Micromachines</i> , 2016, 7, 22.  | 1.4 | 88        |
| 2  | Event-triggered logical flow control for comprehensive process integration of multi-step assays on centrifugal microfluidic platforms. <i>Lab on A Chip</i> , 2014, 14, 2249-2258.  | 3.1 | 81        |
| 3  | Centrifugal microfluidics for cell analysis. <i>Current Opinion in Chemical Biology</i> , 2012, 16, 409-414.  | 2.8 | 80        |
| 4  | CD4 counting technologies for HIV therapy monitoring in resource-poor settings – state-of-the-art and emerging microtechnologies. <i>Lab on A Chip</i> , 2013, 13, 2731.  | 3.1 | 59        |
| 5  | Density-Gradient Mediated Band Extraction of Leukocytes from Whole Blood Using Centrifugo-Pneumatic Siphon Valving on Centrifugal Microfluidic Discs. <i>PLoS ONE</i> , 2016, 11, e0155545.   | 1.1 | 48        |
| 6  | Paper imbibition for timing of multi-step liquid handling protocols on event-triggered centrifugal microfluidic lab-on-a-disc platforms. <i>RSC Advances</i> , 2015, 5, 1818-1826.  | 1.7 | 44        |
| 7  | Label-free, spatially multiplexed SPR detection of immunoassays on a highly integrated centrifugal Lab-on-a-Disc platform. <i>Biosensors and Bioelectronics</i> , 2018, 119, 86-93.   | 5.3 | 44        |
| 8  | Wirelessly powered and remotely controlled valve-array for highly multiplexed analytical assay automation on a centrifugal microfluidic platform. <i>Biosensors and Bioelectronics</i> , 2018, 109, 214-223.  | 5.3 | 41        |
| 9  | Rapid, low-cost and instrument-free CD4+ cell counting for HIV diagnostics in resource-poor settings. <i>Lab on A Chip</i> , 2014, 14, 2844-2851.   | 3.1 | 39        |
| 10 | Fully automated chemiluminescence detection using an electrified-Lab-on-a-Disc (eLoaD) platform. <i>Lab on A Chip</i> , 2016, 16, 4002-4011.  | 3.1 | 35        |
| 11 | Centrifugo-Magnetophoretic Purification of CD4+ Cells from Whole Blood Toward Future HIV/AIDS Point-of-Care Applications. <i>Journal of the Association for Laboratory Automation</i> , 2014, 19, 285-296.  | 2.8 | 33        |
| 12 | Biosensing on the Centrifugal Microfluidic Lab-on-a-Disc Platform. <i>Processes</i> , 2020, 8, 1360.  | 1.3 | 30        |
| 13 | Xurography actuated valving for centrifugal flow control. <i>Lab on A Chip</i> , 2016, 16, 3454-3459.   | 3.1 | 29        |
| 14 | <i>Spira mirabilis</i> enhanced whole blood processing in a lab-on-a-disk. <i>Sensors and Actuators A: Physical</i> , 2014, 215, 71-76.   | 2.0 | 28        |
| 15 | Development of an on-disc isothermal in vitro amplification and detection of bacterial RNA. <i>Sensors and Actuators B: Chemical</i> , 2017, 239, 235-242.  | 4.0 | 27        |
| 16 | Polyethylene imine/graphene oxide layer-by-layer surface functionalization for significantly improved limit of detection and binding kinetics of immunoassays on acrylate surfaces. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 158, 167-174. | 2.5 | 24        |
| 17 | Cavitation control using passive flow control techniques. <i>Physics of Fluids</i> , 2021, 33, .  | 1.6 | 23        |
| 18 | Baking Powder Actuated Centrifugo-Pneumatic Valving for Automation of Multi-Step Bioassays. <i>Micromachines</i> , 2016, 7, 175.  | 1.4 | 17        |

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|----|---|-----|-----------|
| 19 | Siphon-Induced Droplet Break-Off for Enhanced Mixing on a Centrifugal Platform. <i>Inventions</i> , 2020, 5, 1.   | 1.3 | 15        |
| 20 | Cluster size distribution of cancer cells in blood using stopped-flow centrifugation along scale-matched gaps of a radially inclined rail. <i>Microsystems and Nanoengineering</i> , 2015, 1, .                           | 3.4 | 10        |
| 21 | Automation of Silica Bead-based Nucleic Acid Extraction on a Centrifugal Lab-on-a-Disc Platform. <i>Journal of Physics: Conference Series</i> , 2016, 757, 012013.  | 0.3 | 10        |
| 22 | Siphon-Controlled Automation on a Lab-on-a-Disc Using Event-Triggered Dissolvable Film Valves. <i>Biosensors</i> , 2021, 11, 73.  | 2.3 | 9         |
| 23 | Lipophilic-membrane based routing for centrifugal automation of heterogeneous immunoassays. , 2015, , .   |     | 8         |
| 24 | Solvent selective membrane routing and microfluidic architecture towards centrifugal automation of customisable bead based immunoassays. <i>Sensors and Actuators B: Chemical</i> , 2022, 356, 131305.                    | 4.0 | 8         |
| 25 | Design and fabrication of a low-cost wireless camera imaging system for centrifugal microfluidics. <i>HardwareX</i> , 2022, 11, e00259.   | 1.1 | 7         |
| 26 | Effect of substrate thermal resistance on space-domain microchannel fluorescent melting curve analysis. <i>Biomedical Microdevices</i> , 2009, 11, 747-754.   | 1.4 | 4         |
| 27 | Lab-on-a-disk extraction of PBMC and metered plasma from whole blood: An advanced event-triggered valving strategy. <i>Biomicrofluidics</i> , 2021, 15, 064102.   | 1.2 | 4         |
| 28 | Development of a system for on-disc isothermal in vitro amplification and detection of bacterial RNA. , 2017, , .   |     | 1         |
| 29 | A portable optical reader and wall projector towards enumeration of bio-conjugated beads or cells. <i>PLoS ONE</i> , 2017, 12, e0189923.  | 1.1 | 1         |
| 30 | Centrifugally automated Solid-Phase Extraction of DNA by immiscible liquid valving and chemically powered centripetal pumping of peripherally stored reagents. <i>Biosensors and Bioelectronics: X</i> , 2021, 9, 100085. | 0.9 | 1         |
| 31 | <i>Spira Mirabilis</i> enhanced density gradient centrifugation. , 2013, , .  |     | 0         |
| 32 | Special Issue on "Advances in Microfluidics Technology for Diagnostics and Detection" Processes, 2021, 9, 854.  | 1.3 | 0         |