

David J Kinahan

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

30
papers

624
citations

15
h-index

24
g-index

32
ext. papers

730
ext. citations

5.3
avg, IF

3.87
L-index

#	Paper	IF	Citations
30	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, 2249-58	7.2	67
29	CD-Based Microfluidics for Primary Care in Extreme Point-of-Care Settings. <i>Micromachines</i> , 2016 , 7,	3.3	67
28	Centrifugal microfluidics for cell analysis. <i>Current Opinion in Chemical Biology</i> , 2012 , 16, 409-14	9.7	65
27	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, 2731-48	7.2	51
26	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	3.7	39
25	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	3.7	39
24	Rapid, low-cost and instrument-free CD4+ cell counting for HIV diagnostics in resource-poor settings. <i>Lab on A Chip</i> , 2014 , 14, 2844-51	7.2	35
23	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, 285-96		29
22	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	11.8	27
21	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	11.8	25
20	Fully automated chemiluminescence detection using an electrified-Lab-on-a-Disc (eLoaD) platform. <i>Lab on A Chip</i> , 2016 , 16, 4002-4011	7.2	25
19	Xurography actuated valving for centrifugal flow control. <i>Lab on A Chip</i> , 2016 , 16, 3454-9	7.2	24
18	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	8.5	23
17	<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	3.9	23
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	6	17
15	Biosensing on the Centrifugal Microfluidic Lab-on-a-Disc Platform. <i>Processes</i> , 2020 , 8, 1360	2.9	14
14	Baking Powder Actuated Centrifugo-Pneumatic Valving for Automation of Multi-Step Bioassays. <i>Micromachines</i> , 2016 , 7,	3.3	10

13	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
12	Siphon-Induced Droplet Break-Off for Enhanced Mixing on a Centrifugal Platform. <i>Inventions</i> , 2020 , 5, 1	2.9	9
11	Lipophilic-membrane based routing for centrifugal automation of heterogeneous immunoassays 2015 ,		8
10	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,	7.7	7
9	Effect of substrate thermal resistance on space-domain microchannel fluorescent melting curve analysis. <i>Biomedical Microdevices</i> , 2009 , 11, 747-54	3.7	4
8	Siphon-Controlled Automation on a Lab-on-a-Disc Using Event-Triggered Dissolvable Film Valves. <i>Biosensors</i> , 2021 , 11,	5.9	2
7	Cavitation control using passive flow control techniques. <i>Physics of Fluids</i> , 2021 , 33, 121301	4.4	2
6	Development of a system for on-disc isothermal in vitro amplification and detection of bacterial RNA 2017 ,		1
5	A portable optical reader and wall projector towards enumeration of bio-conjugated beads or cells. <i>PLoS ONE</i> , 2017 , 12, e0189923	3.7	1
4	Design and fabrication of a low-cost wireless camera imaging system for centrifugal microfluidics.. <i>HardwareX</i> , 2022 , 11, e00259	2.7	0
3	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	3.2	0
2	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	8.5	0
1	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 , 100085	2.9	