

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.

168 papers	4,751 citations	39 h-index	64 g-index
208 ext. papers	5,337 ext. citations	4.7 avg, IF	5.6 L-index

#	Paper	IF	Citations
168	The centrifugal microfluidic Bio-Disk platform. <i>Journal of Micromechanics and Microengineering</i> , 2007 , 17, S103-S115	2	408
167	Energy harvesting by implantable abiotically catalyzed glucose fuel cells. <i>Journal of Power Sources</i> , 2008 , 182, 1-17	8.9	295
166	Batch-mode mixing on centrifugal microfluidic platforms. <i>Lab on A Chip</i> , 2005 , 5, 560-5	7.2	201
165	Centrifugal extraction of plasma from whole blood on a rotating disk. <i>Lab on A Chip</i> , 2006 , 6, 776-81	7.2	200
164	Rapid prototyping of microfluidic chips in COC. <i>Journal of Micromechanics and Microengineering</i> , 2007 , 17, 333-341	2	152
163	Platelet adhesion and degranulation induce pro-survival and pro-angiogenic signalling in ovarian cancer cells. <i>PLoS ONE</i> , 2011 , 6, e26125	3.7	112
162	Fully integrated whole blood testing by real-time absorption measurement on a centrifugal platform. <i>Lab on A Chip</i> , 2006 , 6, 1040-4	7.2	106
161	Frequency-dependent transversal flow control in centrifugal microfluidics. <i>Lab on A Chip</i> , 2005 , 5, 146-50	7.2	105
160	Centrifugo-pneumatic valving utilizing dissolvable films. <i>Lab on A Chip</i> , 2012 , 12, 2894-902	7.2	91
159	An abiotically catalyzed glucose fuel cell for powering medical implants: Reconstructed manufacturing protocol and analysis of performance. <i>Journal of Power Sources</i> , 2008 , 182, 66-75	8.9	90
158	Integrated siphon-based metering and sedimentation of whole blood on a hydrophilic lab-on-a-disk. <i>Biomedical Microdevices</i> , 2007 , 9, 675-9	3.7	86
157	Patterning of flow and mixing in rotating radial microchannels. <i>Microfluidics and Nanofluidics</i> , 2006 , 2, 97-105	2.8	82
156	Visualization of flow patterning in high-speed centrifugal microfluidics. <i>Review of Scientific Instruments</i> , 2005 , 76, 025101	1.7	80
155	Label-free impedance detection of cancer cells from whole blood on an integrated centrifugal microfluidic platform. <i>Biosensors and Bioelectronics</i> , 2015 , 68, 382-389	11.8	79
154	Centrifugal Micromixery. <i>Chemical Engineering and Technology</i> , 2005 , 28, 613-616	2	76
153	Extended classical over-barrier model for collisions of highly charged ions with conducting and insulating surfaces. <i>Physical Review A</i> , 1998 , 57, 338-350	2.6	76
152	Centrifugal generation and manipulation of droplet emulsions. <i>Microfluidics and Nanofluidics</i> , 2006 , 3, 65-75	2.8	68

151	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
150	Read-out concepts for multiplexed bead-based fluorescence immunoassays on centrifugal microfluidic platforms. <i>Sensors and Actuators A: Physical</i> , 2006 , 126, 455-462	3.9	67
149	CD-Based Microfluidics for Primary Care in Extreme Point-of-Care Settings. <i>Micromachines</i> , 2016 , 7,	3.3	67
148	Sensitivity enhancement for colorimetric glucose assays on whole blood by on-chip beam-guidance. <i>Biomedical Microdevices</i> , 2006 , 8, 209-14	3.7	66
147	Centrifugal microfluidics for cell analysis. <i>Current Opinion in Chemical Biology</i> , 2012 , 16, 409-14	9.7	65
146	Centrifugo-pneumatic valve for metering of highly wetting liquids on centrifugal microfluidic platforms. <i>Lab on A Chip</i> , 2009 , 9, 3599-603	7.2	64
145	Multilamination of flows in planar networks of rotating microchannels. <i>Microfluidics and Nanofluidics</i> , 2006 , 2, 78-84	2.8	61
144	Integration of functional materials and surface modification for polymeric microfluidic systems. <i>Journal of Micromechanics and Microengineering</i> , 2013 , 23, 033001	2	53
143	Alginate bead fabrication and encapsulation of living cells under centrifugally induced artificial gravity conditions. <i>Journal of Microencapsulation</i> , 2008 , 25, 267-74	3.4	53
142	A portable centrifugal analyser for liver function screening. <i>Biosensors and Bioelectronics</i> , 2014 , 56, 352-81.8	1.8	52
141	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
140	Single-step centrifugal hematocrit determination on a 10-\$ processing device. <i>Biomedical Microdevices</i> , 2007 , 9, 795-9	3.7	51
139	Optical sensing system based on wireless paired emitter detector diode device and ionogels for lab-on-a-disc water quality analysis. <i>Lab on A Chip</i> , 2012 , 12, 5069-78	7.2	50
138	Array-based capture, distribution, counting and multiplexed assaying of beads on a centrifugal microfluidic platform. <i>Lab on A Chip</i> , 2012 , 12, 1289-95	7.2	49
137	Comprehensive integration of homogeneous bioassays via centrifugo-pneumatic cascading. <i>Lab on A Chip</i> , 2013 , 13, 685-94	7.2	46
136	An integrated centrifugo-opto-microfluidic platform for arraying, analysis, identification and manipulation of individual cells. <i>Lab on A Chip</i> , 2015 , 15, 378-81	7.2	43
135	Handling and analysis of cells and bioparticles on centrifugal microfluidic platforms. <i>Expert Review of Molecular Diagnostics</i> , 2012 , 12, 407-21	3.8	43
134	Centrifugo-magnetophoretic particle separation. <i>Microfluidics and Nanofluidics</i> , 2012 , 13, 899-908	2.8	43

133	Direct hemoglobin measurement on a centrifugal microfluidic platform for point-of-care diagnostics. <i>Sensors and Actuators A: Physical</i> , 2006 , 130-131, 228-233	3.9	42
132	Integrated microfluidic array plate (IMAP) for cellular and molecular analysis. <i>Lab on A Chip</i> , 2011 , 11, 2701-10	7.2	40
131	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
130	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
129	Fabricating electrodes for amperometric detection in hybrid paper/polymer lab-on-a-chip devices. <i>Lab on A Chip</i> , 2012 , 12, 3281-4	7.2	38
128	A complete testing environment for the automated parallel performance characterization of biofuel cells: design, validation, and application. <i>Journal of Applied Electrochemistry</i> , 2009 , 39, 1477-1485 ^{2.6}		38
127	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
126	CMAS: fully integrated portable centrifugal microfluidic analysis system for on-site colorimetric analysis. <i>RSC Advances</i> , 2013 , 3, 15928	3.7	34
125	At-line bioprocess monitoring by immunoassay with rotationally controlled serial siphoning and integrated supercritical angle fluorescence optics. <i>Analytica Chimica Acta</i> , 2013 , 781, 54-62	6.6	34
124	Manufacture of chitosan microbeads using centrifugally driven flow of gel-forming solutions through a polymeric micronozzle. <i>Journal of Colloid and Interface Science</i> , 2009 , 336, 634-41	9.3	34
123	Centrifugo-magnetic pump for gas-to-liquid sampling. <i>Sensors and Actuators A: Physical</i> , 2007 , 135, 28-33 ^{3.9}		33
122	Accelerating innovation and commercialization through standardization of microfluidic-based medical devices. <i>Lab on A Chip</i> , 2021 , 21, 9-21	7.2	31
121	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
120	A review of centrifugal microfluidics in environmental monitoring. <i>Analytical Methods</i> , 2018 , 10, 1497-1531 ^{3.5}		28
119	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
118	Spin coating of hydrophilic polymeric films for enhanced centrifugal flow control by serial siphoning. <i>Microfluidics and Nanofluidics</i> , 2014 , 16, 691-699	2.8	27
117	Neutralization of hyperthermal multiply charged ions at surfaces: Comparison between the extended dynamical overbarrier model and experiment. <i>Physical Review A</i> , 1999 , 60, 3029-3043	2.6	27
116	PhosphaSense: A fully integrated, portable lab-on-a-disc device for phosphate determination in water. <i>Sensors and Actuators B: Chemical</i> , 2017 , 246, 1085-1091	8.5	26

115	Rapid, culture-independent, optical diagnostics of centrifugally captured bacteria from urine samples. <i>Biomicrofluidics</i> , 2015 , 9, 044118	3.2	26
114	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
113	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
112	Xurography actuated valving for centrifugal flow control. <i>Lab on A Chip</i> , 2016 , 16, 3454-9	7.2	24
111	Centrifugal automation of a triglyceride bioassay on a low-cost hybrid paper-polymer device. <i>Microfluidics and Nanofluidics</i> , 2014 , 16, 895-905	2.8	23
110	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
109	<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
108	Liquid recirculation in microfluidic channels by the interplay of capillary and centrifugal forces. <i>Microfluidics and Nanofluidics</i> , 2010 , 9, 695-703	2.8	23
107	Rapid and cost-efficient enumeration of rare cancer cells from whole blood by low-loss centrifugo-magnetophoretic purification under stopped-flow conditions. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2015 , 87, 74-80	4.6	21
106	Integrated micromixer for incubation and separation of cancer cells on a centrifugal platform using inertial and dean forces. <i>Microfluidics and Nanofluidics</i> , 2015 , 18, 513-526	2.8	21
105	ChromiSense: A colourimetric lab-on-a-disc sensor for chromium speciation in water. <i>Talanta</i> , 2018 , 178, 392-399	6.2	21
104	Fluidic automation of nitrate and nitrite bioassays in whole blood by dissolvable-film based centrifugo-pneumatic actuation. <i>Sensors</i> , 2013 , 13, 11336-49	3.8	20
103	Plasma extraction by centrifugo-pneumatically induced gating of flow. <i>Journal of Micromechanics and Microengineering</i> , 2013 , 23, 035035	2	20
102	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
101	Optical detection strategies for centrifugal microfluidic platforms. <i>Journal of Modern Optics</i> , 2014 , 61, 85-101	1.1	16
100	Simple approach to study biomolecule adsorption in polymeric microfluidic channels. <i>Analytica Chimica Acta</i> , 2013 , 760, 75-82	6.6	16
99	Design and fabrication of a COP-based microfluidic chip: chronoamperometric detection of Troponin T. <i>Electrophoresis</i> , 2012 , 33, 3187-94	3.6	16
98	Rotationally controlled magneto-hydrodynamic particle handling for bead-based microfluidic assays. <i>Microfluidics and Nanofluidics</i> , 2012 , 13, 675-681	2.8	15

97	LAB-ON-CHIP-BASED CELL SEPARATION BY COMBINING DIELECTROPHORESIS AND CENTRIFUGATION. <i>Biophysical Reviews and Letters</i> , 2006 , 01, 443-451	1.2	15
96	Novel Microfluidic Analytical Sensing Platform for the Simultaneous Detection of Three Algal Toxins in Water. <i>ACS Omega</i> , 2018 , 3, 6624-6634	3.9	15
95	Tailormade Microfluidic Devices Through Photochemical Surface Modification. <i>Macromolecular Chemistry and Physics</i> , 2010 , 211, 195-203	2.6	14
94	Efficient Development of Integrated Lab-On-A-Chip Systems Featuring Operational Robustness and Manufacturability. <i>Micromachines</i> , 2019 , 10,	3.3	14
93	Leaky Expression of the TET-On System Hinders Control of Endogenous miRNA Abundance. <i>Biotechnology Journal</i> , 2019 , 14, e1800219	5.6	13
92	Phase-selective graphene oxide membranes for advanced microfluidic flow control. <i>Microsystems and Nanoengineering</i> , 2016 , 2, 16008	7.7	12
91	Reusable ionogel-based photo-actuators in a lab-on-a-disc. <i>Sensors and Actuators B: Chemical</i> , 2018 , 257, 963-970	8.5	12
90	Reactive deposition of nano-films in deep polymeric microcavities. <i>Lab on A Chip</i> , 2012 , 12, 4877-83	7.2	11
89	Aggregation of bead-monolayers in flat microfluidic chambers - simulation by the model of porous media. <i>Lab on A Chip</i> , 2004 , 4, 209-13	7.2	11
88	Successful modeling, design, and test of electron cyclotron resonance ion sources. <i>Review of Scientific Instruments</i> , 1998 , 69, 729-731	1.7	11
87	New strategies for stationary phase integration within centrifugal microfluidic platforms for applications in sample preparation and pre-concentration. <i>Analytical Methods</i> , 2017 , 9, 1998-2006	3.2	10
86	Hybrid integrated PDMS microfluidics with a silica capillary. <i>Lab on A Chip</i> , 2010 , 10, 1468-71	7.2	10
85	Interactions of Ar ⁹⁺ and metastable Ar ⁸⁺ with a Si(100) surface at velocities near the image acceleration limit. <i>Physical Review A</i> , 1998 , 57, 1925-1937	2.6	10
84	Research DA blockchain of knowledge?. <i>Blockchain: Research and Applications</i> , 2020 , 1, 100005	2.5	10
83	Blockchain for Organizing Effective Grass-Roots Actions on a Global Commons: Saving the Planet. <i>Frontiers in Blockchain</i> , 2020 , 3,	3	10
82	Baking Powder Actuated Centrifugo-Pneumatic Valving for Automation of Multi-Step Bioassays. <i>Micromachines</i> , 2016 , 7,	3.3	10
81	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
80	Siphon-Induced Droplet Break-Off for Enhanced Mixing on a Centrifugal Platform. <i>Inventions</i> , 2020 , 5, 1	2.9	9

79	Automation of multi-analyte prostate cancer biomarker immunoassay panel from whole blood by minimum-instrumentation rotational flow control. <i>Sensors and Actuators B: Chemical</i> , 2018 , 263, 668-675	8.5	8
78	Sequential glycan profiling at single cell level with the microfluidic lab-in-a-trench platform: a new era in experimental cell biology. <i>Lab on A Chip</i> , 2014 , 14, 3629-39	7.2	8
77	Lipophilic-membrane based routing for centrifugal automation of heterogeneous immunoassays 2015 ,		8
76	Solvent-selective routing for centrifugally automated solid-phase purification of RNA. <i>Microfluidics and Nanofluidics</i> , 2015 , 18, 859-871	2.8	8
75	A One-Compartment, Direct Glucose Fuel Cell for Powering Long-Term Medical Implants		8
74	Open Platform Concept for Blockchain-Enabled Crowdsourcing of Technology Development and Supply Chains. <i>Frontiers in Blockchain</i> , 2020 , 3,	3	7
73	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
72	Next-generation microfluidic lab-on-a-chip platforms for point-of-care diagnostics and systems biology. <i>Procedia Chemistry</i> , 2009 , 1, 517-520		7
71	Centrifugally automated solid-phase purification of RNA 2014 ,		6
70	Low-Cost Microfluidic Single-Use Valves and On-Board Reagent Storage using Laser-Printer Technology 2009 ,		6
69	Aliquoting structure for centrifugal microfluidics based on a new pneumatic valve. <i>Proceedings of the IEEE International Conference on Micro Electro Mechanical Systems (MEMS)</i> , 2008 ,		6
68	Real-time monitoring of cell migration, phagocytosis and cell surface receptor dynamics using a novel, live-cell opto-microfluidic technique. <i>Analytica Chimica Acta</i> , 2015 , 872, 95-9	6.6	5
67	A hybrid microfluidic platform for cell-based assays via diffusive and convective trans-membrane perfusion. <i>Biomicrofluidics</i> , 2013 , 7, 34101	3.2	5
66	Multi-material paper-disc devices for low cost biomedical diagnostics 2013 ,		5
65	Optical non-contact localization of liquid-gas interfaces on disk during rotation for measuring flow rates and viscosities. <i>Lab on A Chip</i> , 2012 , 12, 5231-6	7.2	5
64	Surface plasmon excitations in the wake of hollow atom relaxation at surfaces. <i>Applied Surface Science</i> , 1998 , 136, 269-279	6.7	5
63	Signature of metastable electrons in highly charged ion-surface interactions. <i>Physical Review A</i> , 1998 , 58, R1649-R1652	2.6	5
62	Convergence of Blockchain, Autonomous Agents, and Knowledge Graph to Share Electronic Health Records. <i>Frontiers in Blockchain</i> , 2021 , 4,	3	5

61	Centrifugally enhanced paper microfluidics 2012 ,		4
60	Near-surface K-Auger emission in low-energy scattering of highly charged ions with surfaces. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1998 , 145, 509-521	1.2	4
59	A Surface Mountable Glucose Fuel Cell for Medical Implants 2007 ,		4
58	Charge transfer and electron emission in ion-surface interactions. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1999 , 157, 11-20	1.2	4
57	Functional Membranes for Enhanced Rotational Flow Control on Centrifugal Microfluidic Platforms 2017 ,		4
56	Unchaining Collective Intelligence for Science, Research, and Technology Development by Blockchain-Boosted Community Participation. <i>Frontiers in Blockchain</i> , 2021 , 4,	3	4
55	Laser-actuated centrifugo-pneumatic flow control towards sample-to-answer integrated detection of multi-marker panels at the point-of-care 2018 ,		4
54	Automated DNA purification and multiplexed lamp assay preparation on a centrifugal microfluidic Lab-on-a-Disc platform 2018 ,		4
53	Baking-powder driven centripetal pumping controlled by event-triggering of functional liquids 2015 ,		3
52	A centrifugal microfluidic-based approach for multi-toxin detection for real-time marine water-quality monitoring 2017 ,		3
51	Optical beam guidance in monolithic polymer chips for miniaturized colorimetric assays		3
50	Secure Air Traffic Control at the Hub of Multiplexing on the Centrifugo-Pneumatic Lab-on-a-Disc Platform. <i>Micromachines</i> , 2021 , 12,	3.3	3
49	Label-Free Multi Parameter Optical Interrogation of Endothelial Activation in Single Cells using a Lab on a Disc Platform. <i>Scientific Reports</i> , 2019 , 9, 4157	4.9	2
48	A centrifugo-pneumatic cascade for fully integrated and multiplexed biological analysis 2012 ,		2
47	Multi-stage, solvent-controlled routing for automated on-disc extraction of total RNA from breast cancer cell line homogenate 2013 ,		2
46	Multiplexing of highly reproducible, bead-based immunoassays on a centrifugal microfluidic platform 2011 ,		2
45	A Binder-less Glucose Fuel Cell with Improved Chemical Stability Intended as Power Supply for Medical Implants. <i>IFMBE Proceedings</i> , 2009 , 2379-2383	0.2	2
44	A Centrifugo-Magnetically Actuated Gas Micropump		2

43	Alginate micro-bead fabrication on a centrifugal microfluidics platform 2007 ,		2
42	Spatially resolved K-Auger emission of hyperthermal highly charged ions at an Al(111) surface. <i>Europhysics Letters</i> , 1999 , 48, 672-678	1.6	2
41	Digital Twin: An Oracle for Efficient Crowdsourcing of Research & Technology Development through Blockchain		2
40	Siphon-Controlled Automation on a Lab-on-a-Disc Using Event-Triggered Dissolvable Film Valves. <i>Biosensors</i> , 2021 , 11,	5.9	2
39	Design Optimization of Centrifugal Microfluidic Lab-on-a-Disc Systems towards Fluidic Larger-Scale Integration. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 5839	2.6	2
38	Anti-Counterfeit Technologies for Microfluidic Lab-on-a-Disc Systems		2
37	SIZE- and deformability-based particle sorting by strategic design of obstacle arrays in continuous centrifugal sedimentation mode 2015 ,		1
36	Wireless closed-loop control of centrifugo-pneumatic valving towards large-scale microfluidic process integration 2018 ,		1
35	Automation of immunoassays through centrifugal lab-on-a-disc platforms 2014 , 72-92		1
34	2017 ,		1
33	Development of a system for on-disc isothermal in vitro amplification and detection of bacterial RNA 2017 ,		1
32	Graphene-oxide enabled centrifugo-pneumatic routing of flows 2015 ,		1
31	Photo-switchable microvalve in a reusable Lab-on-a-disc 2015 ,		1
30	Full integration of a liver assay panel on a centrifugal microfluidic platform 2013 ,		1
29	Lab-on-a disc platform for particle focusing induced by inertial forces 2013 ,		1
28	Integration of high-efficiency capture and magneto-hydrodynamic retrieval of particles on a centrifugal microfluidic platform 2011 ,		1
27	Centrifugo-magnetophoretic separation and routing of particles 2011 ,		1
26	2-dimensional separation of biomimetic particles by stopped-flow centrifugo-magnetophoresis 2011 ,		1

25	2011,		1
24	Droplet Mixer based on Siphon-Induced Flow Discretization and Phase Shifting 2009,		1
23	Near-wall velocity of suspended particles in microchannel flow. <i>Proceedings of the IEEE International Conference on Micro Electro Mechanical Systems (MEMS)</i> , 2008,		1
22	A Simple Opto-Fluidic Switch Detecting Liquid Filling in Polymer-Based Microfluidic Systems 2007,		1
21	Parallelization of chip-based fluorescence immuno-assays with quantum-dot labeled beads		1
20	Online process control for centrifugal micromixing		1
19	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
18	Automated assembly of microfluidic "lab-on-a-disc" 2018,		1
17	Microfluidics 2006, 667-727		1
16	Efficient Development of Microfluidic Solutions for Bioanalytical Point-of-Use Testing towards High-Technology-Readiness Levels A Platform-Based Design-for-Manufacture Approach. <i>Proceedings (mdpi)</i> , 2018, 2, 1097	0.3	1
15	Systematic review of centrifugal valving based on digital twin modeling towards highly integrated lab-on-a-disc systems.. <i>Microsystems and Nanoengineering</i> , 2021, 7, 104	7.7	1
14	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
13	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
12	The Centrifugal Microfluidic: Lab-on-a-Disc Platform 2016, 115-144		
11	Systems Biology in Single Cells. <i>Series in Bioengineering</i> , 2016, 31-53	0.7	
10	Microfluidics 2006, 667-727		
9	Nanoliter & picoliter liquid handling 2003, 151-169		
8	Optimized Creation of Monolayers for Parallel Readout of Bead-Based Assays 2004, 117-125		

- 7 Centrifugally automated Solid-Phase Extraction of DNA by immiscible liquid valving and chemically powered centripetal pumping of peripherally stored reagents. *Biosensors and Bioelectronics: X*, **2021**, 100085 2.9
- 6 Microfluidic Cell Enumeration for Biomedical Diagnostics **2015**, 1882-1891
- 5 Optical Detection on Centrifugal Microfluidic Lab-on-a-disc Platforms **2013**, 1-10
- 4 Centrifugal Microfluidics **2014**, 1-18
- 3 Disease-Relevant Single Cell Photonic Signatures Identify S100 β Stem Cells and their Myogenic Progeny in Vascular Lesions. *Stem Cell Reviews and Reports*, **2021**, 17, 1713-1740 7.3
- 2 Functional Membranes for Enhanced Rotational Flow Control on Centrifugal Microfluidic Platforms **2021**, 119-119
- 1 On-board reagent storage and release by solvent-selective, rotationally opened membranes: a digital twin approach. *Microfluidics and Nanofluidics*, **2022**, 26, 1 2.8