Piotr Garstecki

List of Publications by Year
in descending order

157 papers	12,190 citations	43973 48 h-index	26548 107 g-index
183 all docs	183 docs citations	183 times ranked	10071 citing authors

#	Article	IF	Citations
1	Formation of droplets and bubbles in a microfluidic T-junctionâ€"scaling and mechanism of break-up. Lab on A Chip, 2006, 6, 437.	3.1	1,863
2	Generation of Monodisperse Particles by Using Microfluidics: Control over Size, Shape, and Composition. Angewandte Chemie - International Edition, 2005, 44, 724-728.	7.2	700
3	Transition from squeezing to dripping in a microfluidic T-shaped junction. Journal of Fluid Mechanics, 2008, 595, 141-161.	1.4	571
4	Formation of monodisperse bubbles in a microfluidic flow-focusing device. Applied Physics Letters, 2004, 85, 2649-2651.	1.5	563
5	Mechanism for Flow-Rate Controlled Breakup in Confined Geometries: A Route to Monodisperse Emulsions. Physical Review Letters, 2005, 94, 164501.	2.9	480
6	Escherichia coli swim on the right-hand side. Nature, 2005, 435, 1271-1274.	13.7	432
7	Microoxen: Microorganisms to move microscale loads. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 11963-11967.	3.3	355
8	An Axisymmetric Flow-Focusing Microfluidic Device. Advanced Materials, 2005, 17, 1067-1072.	11.1	335
9	Droplet microfluidics for microbiology: techniques, applications and challenges. Lab on A Chip, 2016, 16, 2168-2187.	3.1	326
10	Emulsification in a microfluidic flow-focusing device: effect of the viscosities of the liquids. Microfluidics and Nanofluidics, 2008, 5, 585-594.	1.0	299
11	Dynamic control of liquid-core/liquid-cladding optical waveguides. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 12434-12438.	3.3	287
12	Microfluidic-enhanced 3D bioprinting of aligned myoblast-laden hydrogels leads to functionally organized myofibers inÂvitro and inÂvivo. Biomaterials, 2017, 131, 98-110.	5.7	252
13	Coding/Decoding and Reversibility of Droplet Trains in Microfluidic Networks. Science, 2007, 315, 828-832.	6.0	214
14	Controlled droplet microfluidic systems for multistep chemical and biological assays. Chemical Society Reviews, 2017, 46, 6210-6226.	18.7	214
15	Rapid screening of antibiotic toxicity in an automated microdroplet system. Lab on A Chip, 2012, 12, 1629.	3.1	204
16	The structure and stability of multiple micro-droplets. Soft Matter, 2012, 8, 7269.	1.2	177
17	Bonding of microfluidic devices fabricated in polycarbonate. Lab on A Chip, 2010, 10, 1324.	3.1	140
18	Mixing with bubbles: a practical technology for use with portable microfluidic devices. Lab on A Chip, 2006, 6, 207-212.	3.1	129

#	Article	IF	Citations
19	Formation of Bubbles and Droplets in Parallel, Coupled Flowâ€Focusing Geometries. Small, 2008, 4, 1795-1805.	5.2	116
20	Nonlinear Dynamics of a Flow-Focusing Bubble Generator: An Inverted Dripping Faucet. Physical Review Letters, 2005, 94, 234502.	2.9	110
21	Bacterial Growth and Adaptation in Microdroplet Chemostats. Angewandte Chemie - International Edition, 2013, 52, 8908-8911.	7.2	107
22	High-throughput automated droplet microfluidic system for screening of reaction conditions. Lab on A Chip, 2010, 10, 816.	3.1	106
23	Diffusion and Viscosity in a Crowded Environment:Â from Nano- to Macroscale. Journal of Physical Chemistry B, 2006, 110, 25593-25597.	1.2	97
24	Simultaneous generation of droplets with different dimensions in parallel integrated microfluidic droplet generators. Soft Matter, 2008, 4, 258-262.	1.2	93
25	Effects of unsteadiness of the rates of flow on the dynamics of formation of droplets in microfluidic systems. Lab on A Chip, 2011, 11, 173-175.	3.1	87
26	Highly ordered and tunable polyHIPEs by using microfluidics. Journal of Materials Chemistry B, 2014, 2, 2290.	2.9	80
27	Screening of the Effect of Surface Energy of Microchannels on Microfluidic Emulsification. Langmuir, 2007, 23, 8010-8014.	1.6	78
28	Design for mixing using bubbles in branched microfluidic channels. Applied Physics Letters, 2005, 86, 244108.	1.5	77
29	Bifurcation of droplet flows within capillaries. Physical Review E, 2006, 74, 036311.	0.8	76
30	Synthesis of Composite Emulsions and Complex Foams with the use of Microfluidic Flowâ€Focusing Devices. Small, 2007, 3, 1792-1802.	5.2	75
31	Speed of flow of individual droplets in microfluidic channels as a function of the capillary number, volume of droplets and contrast of viscosities. Lab on A Chip, 2011, 11, 3603.	3.1	75
32	3Dâ€Printing of Functionally Graded Porous Materials Using Onâ€Demand Reconfigurable Microfluidics. Angewandte Chemie - International Edition, 2019, 58, 7620-7625.	7.2	73
33	Oscillations with uniquely long periods in a microfluidic bubble generator. Nature Physics, 2005, 1, 168-171.	6.5	67
34	Flowing Crystals: Nonequilibrium Structure of Foam. Physical Review Letters, 2006, 97, 024503.	2.9	67
35	Two-Dimensional Colloid Crystals Obtained by Coupling of Flow and Confinement. Physical Review Letters, 2003, 91, 128301.	2.9	66
36	Flowing Lattices of Bubbles as Tunable, Self-Assembled Diffraction Gratings. Small, 2006, 2, 1292-1298.	5.2	63

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37	Propulsion of flexible polymer structures in a rotating magnetic field. Journal of Physics Condensed Matter, 2009, 21, 204110.	0.7	63
38	Recent developments of microfluidics as a tool for biotechnology and microbiology. Current Opinion in Biotechnology, 2019, 55, 60-67.	3.3	63
39	Interfacial instabilities in a microfluidic Hele-Shaw cell. Soft Matter, 2008, 4, 1403.	1.2	62
40	Energy landscapes, supergraphs, and â€œfolding funnelsâ€• in spin systems. Physical Review E, 1999, 60, 3219-3226.	0.8	57
41	Generation of Monodisperse Particles by Using Microfluidics: Control over Size, Shape, and Composition. Angewandte Chemie - International Edition, 2005, 44, 3799-3799.	7.2	55
42	Dynamic memory in a microfluidic system of droplets traveling through a simple network of microchannels. Lab on A Chip, 2010, 10, 484-493.	3.1	55
43	Flow focusing with viscoelastic liquids. Physics of Fluids, 2013, 25, .	1.6	55
44	Microfluidic Foaming: A Powerful Tool for Tailoring the Morphological and Permeability Properties of Sponge-like Biopolymeric Scaffolds. ACS Applied Materials & Interfaces, 2015, 7, 23660-23671.	4.0	55
45	Microfluidic traps for hard-wired operations on droplets. Lab on A Chip, 2013, 13, 4096.	3.1	54
46	Droplet-based digital antibiotic susceptibility screen reveals single-cell clonal heteroresistance in an isogenic bacterial population. Scientific Reports, 2020, 10, 3282.	1.6	54
47	Combining microscience and neurobiology. Current Opinion in Neurobiology, 2005, 15, 560-567.	2.0	51
48	Droplet on demand system utilizing a computer controlled microvalve integrated into a stiff polymeric microfluidic device. Lab on A Chip, 2010, 10, 512-518.	3.1	51
49	In vivo volumetric imaging by crosstalk-free full-field OCT. Optica, 2019, 6, 608.	4.8	50
50	Scattering Patterns of Self-Assembled Cubic Phases. 2. Analysis of the Experimental Spectra. Langmuir, 2002, 18, 2529-2537.	1.6	49
51	Discontinuous Transition in a Laminar Fluid Flow: A Change of Flow Topology inside a Droplet Moving in a Micron-Size Channel. Physical Review Letters, 2012, 108, 134501.	2.9	49
52	Hydrophobic modification of polycarbonate for reproducible and stable formation of biocompatible microparticles. Lab on A Chip, 2011, 11, 748-752.	3.1	48
53	Accounting for corner flow unifies the understanding of droplet formation in microfluidic channels. Nature Communications, 2019, 10, 2528.	5.8	47
54	Microfluidic platform for reproducible self-assembly of chemically communicating droplet networks with predesigned number and type of the communicating compartments. Lab on A Chip, 2016, 16, 764-772.	3.1	46

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55	Scattering Patterns of Self-Assembled Cubic Phases. 1. The Model. Langmuir, 2002, 18, 2519-2528.	1.6	45
56	Self-Assembled Aggregates of IgGs as Templates for the Growth of Clusters of Gold Nanoparticles. Angewandte Chemie - International Edition, 2004, 43, 1555-1558.	7.2	45
57	Bubbling in Unbounded Coflowing Liquids. Physical Review Letters, 2006, 96, 124504.	2.9	45
58	Automated generation of libraries of nL droplets. Lab on A Chip, 2012, 12, 3995.	3.1	45
59	Nano-liter droplet libraries from a pipette: step emulsificator that stabilizes droplet volume against variation in flow rate. Lab on A Chip, 2016, 16, 2044-2049.	3.1	45
60	A passive microfluidic system based on step emulsification allows the generation of libraries of nanoliter-sized droplets from microliter droplets of varying and known concentrations of a sample. Lab on A Chip, 2017, 17, 1323-1331.	3.1	44
61	Chemical computing with reactionâ€“diffusion processes. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2015, 373, 20140219.	1.6	43
62	A droplet microfluidic system for sequential generation of lipid bilayers and transmembrane electrical recordings. Lab on A Chip, 2015, 15, 541-548.	3.1	43
63	Dodecylresorufin (C12R) Outperforms Resorufin in Microdroplet Bacterial Assays. ACS Applied Materials & Interfaces, 2016, 8, 11318-11325.	4.0	40
64	Optimized droplet digital CFU assay (ddCFU) provides precise quantification of bacteria over a dynamic range of 6â€‰logs and beyond. Lab on A Chip, 2017, 17, 1980-1987.	3.1	40
65	Block-and-break generation of microdroplets with fixed volume. Biomicrofluidics, 2013, 7, 024108.	1.2	38
66	Antibiograms in five pipetting steps: precise dilution assays in sub-microliter volumes with a conventional pipette. Lab on A Chip, 2016, 16, 893-901.	3.1	38
67	Automated high-throughput generation of droplets. Lab on A Chip, 2011, 11, 3593.	3.1	37
68	Microfluidic screening of antibiotic susceptibility at a single-cell level shows the inoculum effect of cefotaxime on <i>E. coli</i>. Lab on A Chip, 2018, 18, 3668-3677.	3.1	37
69	Microfluidic observation of the onset of reactiveâ€infitration instability in an analog fracture. Geophysical Research Letters, 2016, 43, 6907-6915.	1.5	35
70	Gravity-driven microfluidic assay for digital enumeration of bacteria and for antibiotic susceptibility testing. Lab on A Chip, 2020, 20, 54-63.	3.1	35
71	Microfluidic formulation of pectin microbeads for encapsulation and controlled release of nanoparticles. Biomicrofluidics, 2011, 5, 013405.	1.2	33
72	Formation of printable granular and colloidal chains through capillary effects and dielectrophoresis. Nature Communications, 2017, 8, 15255.	5.8	33

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73	Bubbles navigating through networks of microchannels. Lab on A Chip, 2011, 11, 3970.	3.1	32
74	Electric Field Assisted Microfluidic Platform for Generation of Tailorable Porous Microbeads as Cell Carriers for Tissue Engineering. Advanced Functional Materials, 2018, 28, 1800874.	7.8	32
75	A micro-rheological method for determination of blood type. Lab on A Chip, 2013, 13, 2796.	3.1	31
76	Droplet Clusters: Exploring the Phase Space of Soft Mesoscale Atoms. Physical Review Letters, 2015, 114, 188302.	2.9	30
77	Oscillating droplet trains in microfluidic networks and their suppression in blood flow. Nature Physics, 2019, 15, 706-713.	6.5	30
78	Simple modular systems for generation of droplets on demand. Lab on A Chip, 2013, 13, 3689.	3.1	29
79	Biofabricating murine and human myoâ€substitutes for rapid volumetric muscle loss restoration. EMBO Molecular Medicine, 2021, 13, e12778.	3.3	29
80	Droplet Microfluidics for High-Throughput Analysis of Antibiotic Susceptibility in Bacterial Cells and Populations. Accounts of Chemical Research, 2022, 55, 605-615.	7.6	29
81	Assessment of the flow velocity of blood cells in a microfluidic device using joint spectral and time domain optical coherence tomography. Optics Express, 2013, 21, 24025.	1.7	28
82	Polyethyleneimine coating renders polycarbonate resistant to organic solvents. Lab on A Chip, 2012, 12, 2580.	3.1	27
83	Hydrophilic polycarbonate for generation of oil in water emulsions in microfluidic devices. Lab on A Chip, 2011, 11, 1151.	3.1	26
84	Characterization of Caulobacter crescentus FtsZ Protein Using Dynamic Light Scattering. Journal of Biological Chemistry, 2012, 287, 23878-23886.	1.6	26
85	Iterative operations on microdroplets and continuous monitoring of processes within them; determination of solubility diagrams of proteins. Lab on A Chip, 2012, 12, 4022.	3.1	25
86	Formation of Droplets and Bubbles in Microfluidic Systems. NATO Science for Peace and Security Series A: Chemistry and Biology, 2010, , 163-181.	0.5	25
87	Photonic properties of multicontinuous cubic phases. Physical Review B, 2002, 66, .	1.1	24
88	Lifetime of Phosphorescence from Nanoparticles Yields Accurate Measurement of Concentration of Oxygen in Microdroplets, Allowing One To Monitor the Metabolism of Bacteria. Analytical Chemistry, 2016, 88, 12006-12012.	3.2	24
89	Fluidization and wall slip of soft glassy materials by controlled surface roughness. Physical Review E, 2017, 95, 052602.	0.8	21
90	Scattering on triply periodic minimal surfacesâ€"the effect of the topology, Debyeâ€"Waller, and molecular form factors. Journal of Chemical Physics, 2000, 113, 3772-3779.	1.2	20

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91	Diffusion and flow in complex liquids. Soft Matter, 2020, 16, 114-124.	1.2	20
92	Large-scale molecular dynamics verification of the Rayleigh-Plesset approximation for collapse of nanobubbles. Physical Review E, 2010, 82, 066309.	0.8	19
93	Functionalization of polycarbonate with proteins; open-tubular enzymatic microreactors. Lab on A Chip, 2012, 12, 2743.	3.1	19
94	A precise and accurate microfluidic droplet dilutor. Analyst, The, 2017, 142, 2901-2911.	1.7	19
95	Passive and parallel microfluidic formation of droplet interface bilayers (DIBs) for measurement of leakage of small molecules through artificial phospholipid membranes. Sensors and Actuators B: Chemical, 2019, 286, 258-265.	4.0	19
96	Tessellation of a stripe. Physical Review E, 2006, 73, 031603.	0.8	17
97	Microfluidic architectures for efficient generation of chemistry gradations in droplets. Microfluidics and Nanofluidics, 2013, 14, 235-245.	1.0	17
98	Hydrophilic polycarbonate chips for generation of oil-in-water (O/W) and water-in-oil-in-water (W/O/W) emulsions. Microfluidics and Nanofluidics, 2013, 14, 767-774.	1.0	17
99	Grooved step emulsification systems optimize the throughput of passive generation of monodisperse emulsions. Lab on A Chip, 2019, 19, 1183-1192.	3.1	17
100	Ions in an AC Electric Field: Strong Long-Range Repulsion between Oppositely Charged Surfaces. Physical Review Letters, 2020, 125, 056001.	2.9	17
101	Whole Teflon valves for handling droplets. Lab on A Chip, 2016, 16, 2198-2210.	3.1	16
102	Study of Active Janus Particles in the Presence of an Engineered Oilâ€“Water Interface. Langmuir, 2021, 37, 204-210.	1.6	16
103	Periodic surfaces of simple and complex topology: Comparison of scattering patterns. Physical Review E, 2001, 64, 021501.	0.8	15
104	Multiple photonic band gaps in the structures composed of core-shell particles. Journal of Applied Physics, 2003, 94, 4244-4247.	1.1	15
105	Net Charge and Electrophoretic Mobility of Lysozyme Charge Ladders in Solutions of Nonionic Surfactant. Journal of Physical Chemistry B, 2007, 111, 5503-5510.	1.2	15
106	Fast selective trapping and release of picoliter droplets in a 3D microfluidic PDMS multi-trap system with bubbles. Analyst, The, 2018, 143, 843-849.	1.7	15
107	Droplet Microfluidics as a Tool for the Generation of Granular Matters and Functional Emulsions. KONA Powder and Particle Journal, 2019, 36, 50-71.	0.9	15
108	High-Throughput Monitoring of Bacterial Cell Density in Nanoliter Droplets: Label-Free Detection of Unmodified Gram-Positive and Gram-Negative Bacteria. Analytical Chemistry, 2021, 93, 843-850.	3.2	15

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109	Scattering Patterns of Multiply Continuous Cubic Phases in Block Copolymers. I. The Model. Macromolecules, 2003, 36, 9181-9190.	2.2	14
110	Direct droplet digital PCR (dddPCR) for species specific, accurate and precise quantification of bacteria in mixed samples. Analytical Methods, 2019, 11, 5730-5735.	1.3	14
111	Thin-finger growth and droplet pinch-off in miscible and immiscible displacements in a periodic network of microfluidic channels. Physics of Fluids, 2015, 27, 112109.	1.6	13
112	Rational Design of Digital Assays. Analytical Chemistry, 2015, 87, 8203-8209.	3.2	13
113	Stable hydrophilic surface of polycarbonate. Sensors and Actuators B: Chemical, 2016, 226, 151-155.	4.0	13
114	Teflon microreactors for organic syntheses. Sensors and Actuators B: Chemical, 2018, 255, 2274-2281.	4.0	13
115	A microfluidic platform for screening and optimization of organic reactions in droplets. Journal of Flow Chemistry, 2020, 10, 397-408.	1.2	13
116	Photonic properties of an inverted face centered cubic opal under stretch and shear. Applied Physics Letters, 2003, 82, 1553-1555.	1.5	12
117	Hydrophilic polycarbonate chips for generation of oil-in-water (O/W) and water-in-oil-in-water (W/O/W) emulsions. Microfluidics and Nanofluidics, 2013, 14, 597-604.	1.0	12
118	Generation of Nanoliter Droplets on Demand at Hundred-Hz Frequencies. Micromachines, 2014, 5, 1002-1011.	1.4	12
119	Designing and interpretation of digital assays: Concentration of target in the sample and in the source of sample. Biomolecular Detection and Quantification, 2016, 10, 24-30.	7.0	12
120	An Automated Microfluidic System for the Generation of Droplet Interface Bilayer Networks. Micromachines, 2017, 8, 93.	1.4	12
121	Scattering patterns of self-assembled gyroid cubic phases in amphiphilic systems. Journal of Chemical Physics, 2001, 115, 1095-1099.	1.2	11
122	Ionic polarization of liquid-liquid interfaces; dynamic control of the rate of electro-coalescence. Applied Physics Letters, 2011, 99, .	1.5	11
123	Custom tailoring multiple droplets one-by-one. Lab on A Chip, 2013, 13, 4308.	3.1	11
124	Differentiation of morphotic elements in human blood using optical coherence tomography and a microfluidic setup. Optics Express, 2015, 23, 27724.	1.7	11
125	A Method for Simultaneous Polishing and Hydrophobization of Polycarbonate for Microfluidic Applications. Polymers, 2020, 12, 2490.	2.0	11
126	Scaling up the Throughput of Synthesis and Extraction in Droplet Microfluidic Reactors. Journal of Flow Chemistry, 2015, 5, 110-118.	1.2	10

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127	Droplet Microfluidic Technique for the Study of Fermentation. Micromachines, 2015, 6, 1514-1525.	1.4	9
128	Split or slip â€“ passive generation of monodisperse double emulsions with cores of varying viscosity in microfluidic tandem step emulsification system. RSC Advances, 2020, 10, 23058-23065.	1.7	9
129	Scattering Patterns of Multiply Continuous Cubic Phases in Block Copolymers. II. Application to Various Triply Periodic Architectures. Macromolecules, 2003, 36, 9191-9198.	2.2	8
130	Collapse of a nanoscopic void triggered by a spherically symmetric traveling sound wave. Physical Review E, 2012, 85, 056303.	0.8	8
131	Blood diagnostics using sedimentation to extract plasma on a fully integrated pointâ€ofâ€care microfluidic system. Engineering in Life Sciences, 2015, 15, 333-339.	2.0	8
132	Calibration-free assays on standard real-time PCR devices. Scientific Reports, 2017, 7, 44854.	1.6	8
133	Transport of resistance through a long microfluidic channel. Physical Review E, 2010, 82, 056301.	0.8	7
134	Between giant oscillations and uniform distribution of droplets: The role of varying lumen of channels in microfluidic networks. Physical Review E, 2015, 92, 063008.	0.8	7
135	Wall fluidization in two acts: from stiff to soft roughness. Soft Matter, 2018, 14, 1088-1093.	1.2	7
136	Combinatorial Antimicrobial Susceptibility Testing Enabled by Non-Contact Printing. Micromachines, 2020, 11, 142.	1.4	7
137	Swimming at low Reynolds numbersâ€"motility of micro-organisms. Journal of Physics Condensed Matter, 2009, 21, 200301.	0.7	6
138	3Dâ€Printing of Functionally Graded Porous Materials Using Onâ€Demand Reconfigurable Microfluidics. Angewandte Chemie, 2019, 131, 7702-7707.	1.6	6
139	Comment on â€œWetting-induced formation of controllable monodisperse multiple emulsions in microfluidicsâ€•by N.-N. Deng, W. Wang, X.-J. Ju, R. Xie, D. A. Weitz and L.-Y. Chu, Lab Chip, 2013,13, 4047. Lab on A Chip, 2014, 14, 1477-1478.	3.1	5
140	An FEP Microfluidic Reactor for Photochemical Reactions. Micromachines, 2018, 9, 156.	1.4	5
141	Impossible order. Nature Physics, 2006, 2, 733-734.	6.5	4
142	Energy Harvesting: Electric Field Assisted Microfluidic Platform for Generation of Tailorable Porous Microbeads as Cell Carriers for Tissue Engineering (Adv. Funct. Mater. 20/2018). Advanced Functional Materials, 2018, 28, 1870133.	7.8	4
143	Evaluation of droplet-based microfluidic platforms as a convenient tool for lipases and esterases assays. Preparative Biochemistry and Biotechnology, 2019, 49, 727-734.	1.0	4
144	Droplet-based methods for tackling antimicrobial resistance. Current Opinion in Biotechnology, 2022, 76, 102755.	3.3	4

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145	Dynamic charge separation in a liquid crystalline meniscus. Soft Matter, 2009, 5, 2352-2360.	1.2	3
146	Non-wetting droplets in capillaries of circular cross-section: Scaling function. Physics of Fluids, 2019, 31, 043102.	1.6	3
147	Microfluidic One-Pot Digital Droplet FISH Using LNA/DNA Molecular Beacons for Bacteria Detection and Absolute Quantification. Biosensors, 2022, 12, 237.	2.3	3
148	Thousandâ€Fold Acceleration of Phase Decomposition in Polymer/Liquid Crystal Blends. ChemPhysChem, 2009, 10, 2620-2622.	1.0	2
149	Go with the flow. Nature Physics, 2015, 11, 305-306.	6.5	1
150	A double-step emulsification device for direct generation of double emulsions. Soft Matter, 2022, 18, 6157-6166.	1.2	1
151	Liquids with internal surfaces at and out of equilibrium: the homogeneity index. Journal of Molecular Liquids, 2004, 112, 29-35.	2.3	0
152	Automated Droplet Microfluidic Chips for Biochemical Assays. , 2012, , 117-136.		0
153	Lipid bilayer at vertically aligned nanoliter droplets generated by two-layered microfluidic channels. , 2017, , .		0
154	Label-Free Optical Readout of Bacteria Density in Nanoliter Droplets. , 2019, , .		0
155	Transport of Droplets in Microfluidic Systems. NATO Science for Peace and Security Series A: Chemistry and Biology, 2010, , 183-202.	0.5	0
156	Optofluidic Platform for Bacteria Screening in Nanoliter Droplets. , 2019, , .		0
157	From dynamic self-organization to avalanching instabilities in soft-granular threads. Soft Matter, 2022, 18, 1801-1818.	1.2	0