

# Dan Yuan

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5015650/publications.pdf>

Version: 2024-02-01

53  
papers

2,954  
citations

236833

25  
h-index

189801

50  
g-index

54  
all docs

54  
docs citations

54  
times ranked

2672  
citing authors

#	ARTICLE	IF	CITATIONS
1	Multiphysics microfluidics for cell manipulation and separation: a review. <i>Lab on A Chip</i> , 2022, 22, 423-444.	3.1	47
2	Length-based separation of <i>Bacillus subtilis</i> bacterial populations by viscoelastic microfluidics. <i>Microsystems and Nanoengineering</i> , 2022, 8, 7.	3.4	18
3	Deep imaging flow cytometry. <i>Lab on A Chip</i> , 2022, 22, 876-889.	3.1	22
4	Continuous microfluidic 3D focusing enabling microflow cytometry for single-cell analysis. <i>Talanta</i> , 2021, 221, 121401.	2.9	40
5	Separation and Enrichment of Yeast <i>Saccharomyces cerevisiae</i> by Shape Using Viscoelastic Microfluidics. <i>Analytical Chemistry</i> , 2021, 93, 1586-1595.	3.2	35
6	Morphological Indicator for Directed Evolution of <i>Euglena gracilis</i> with a High Heavy Metal Removal Efficiency. <i>Environmental Science &amp; Technology</i> , 2021, 55, 7880-7889.	4.6	7
7	Sheathless Separation of Cyanobacterial <i>Anabaena</i> by Shape Using Viscoelastic Microfluidics. <i>Analytical Chemistry</i> , 2021, 93, 12648-12654.	3.2	24
8	Investigation of viscoelastic focusing of particles and cells in a zigzag microchannel. <i>Electrophoresis</i> , 2021, 42, 2230-2237.	1.3	10
9	Perspective - what constitutes a quality analytical paper: Microfluidics and Flow analysis. <i>Talanta Open</i> , 2021, 4, 100055.	1.7	2
10	Modular off-chip emulsion generator enabled by a revolving needle. <i>Lab on A Chip</i> , 2020, 20, 4592-4599.	3.1	11
11	A Review of Secondary Flow in Inertial Microfluidics. <i>Micromachines</i> , 2020, 11, 461.	1.4	75
12	Intelligent image-activated cell sorting 2.0. <i>Lab on A Chip</i> , 2020, 20, 2263-2273.	3.1	93
13	Liquid Metal Composites with Anisotropic and Unconventional Piezoconductivity. <i>Matter</i> , 2020, 3, 824-841.	5.0	77
14	Inertial Microfluidic Purification of Floating Cancer Cells for Drug Screening and Three-Dimensional Tumor Models. <i>Analytical Chemistry</i> , 2020, 92, 11558-11564.	3.2	20
15	Sheathless separation of microalgae from bacteria using a simple straight channel based on viscoelastic microfluidics. <i>Lab on A Chip</i> , 2019, 19, 2811-2821.	3.1	42
16	Fundamentals of Differential Particle Inertial Focusing in Symmetric Sinusoidal Microchannels. <i>Analytical Chemistry</i> , 2019, 91, 4077-4084.	3.2	51
17	Phase Separation in Liquid Metal Nanoparticles. <i>Matter</i> , 2019, 1, 192-204.	5.0	110
18	High-throughput production of uniformly sized liquid metal microdroplets using submerged electrodispersion. <i>Applied Physics Letters</i> , 2019, 114, 154101.	1.5	12

#	ARTICLE	IF	CITATIONS
19	Liquid metal-filled magnetorheological elastomer with positive piezoconductivity. <i>Nature Communications</i> , 2019, 10, 1300.	5.8	267
20	Dean-flow-coupled elasto-inertial particle and cell focusing in symmetric serpentine microchannels. <i>Microfluidics and Nanofluidics</i> , 2019, 23, 1.	1.0	33
21	High-Throughput, Off-Chip Microdroplet Generator Enabled by a Spinning Conical Frustum. <i>Analytical Chemistry</i> , 2019, 91, 3725-3732.	3.2	27
22	Top sheath flow-assisted secondary flow particle manipulation in microchannels with the slanted groove structure. <i>Microfluidics and Nanofluidics</i> , 2019, 23, 1.	1.0	6
23	Functional Liquid Metal Nanoparticles Produced by Liquid-Based Nebulization. <i>Advanced Materials Technologies</i> , 2019, 4, 1800420.	3.0	78
24	Enhanced particle self-ordering in a double-layer channel. <i>Biomedical Microdevices</i> , 2018, 20, 23.	1.4	2
25	Microfluidic Mass Production of Stabilized and Stealthy Liquid Metal Nanoparticles. <i>Small</i> , 2018, 14, e1800118.	5.2	117
26	Tunable particle separation in a hybrid dielectrophoresis (DEP)- inertial microfluidic device. <i>Sensors and Actuators B: Chemical</i> , 2018, 267, 14-25.	4.0	99
27	Liquid metal-based amalgamation-assisted lithography for fabrication of complex channels with diverse structures and configurations. <i>Lab on A Chip</i> , 2018, 18, 785-792.	3.1	28
28	Versatile Microfluidic Platforms Enabled by Novel Magnetorheological Elastomer Microactuators. <i>Advanced Functional Materials</i> , 2018, 28, 1705484.	7.8	71
29	A rapid, maskless 3D prototyping for fabrication of capillary circuits: Toward urinary protein detection. <i>Electrophoresis</i> , 2018, 39, 957-964.	1.3	6
30	Recent progress of particle migration in viscoelastic fluids. <i>Lab on A Chip</i> , 2018, 18, 551-567.	3.1	186
31	Simple, low-cost fabrication of semi-circular channel using the surface tension of solder paste and its application to microfluidic valves. <i>Electrophoresis</i> , 2018, 39, 1460-1465.	1.3	0
32	A portable, hand-powered microfluidic device for sorting of biological particles. <i>Microfluidics and Nanofluidics</i> , 2018, 22, 1.	1.0	28
33	Sheathless Dean-flow-coupled elasto-inertial particle focusing and separation in viscoelastic fluid. <i>RSC Advances</i> , 2017, 7, 3461-3469.	1.7	35
34	High-throughput sheathless and three-dimensional microparticle focusing using a microchannel with arc-shaped groove arrays. <i>Scientific Reports</i> , 2017, 7, 41153.	1.6	27
35	Flow rate-insensitive microparticle separation and filtration using a microchannel with arc-shaped groove arrays. <i>Microfluidics and Nanofluidics</i> , 2017, 21, 1.	1.0	21
36	High Throughput Cell-Free Extraction of Plasma by an Integrated Microfluidic Device Combining Inertial Focusing and Membrane. <i>Journal of Heat Transfer</i> , 2017, 139, .	1.2	3

#	ARTICLE	IF	CITATIONS
37	High-Throughput Separation of White Blood Cells From Whole Blood Using Inertial Microfluidics. IEEE Transactions on Biomedical Circuits and Systems, 2017, 11, 1422-1430.	2.7	47
38	On-Chip Microparticle and Cell Washing Using Coflow of Viscoelastic Fluid and Newtonian Fluid. Analytical Chemistry, 2017, 89, 9574-9582.	3.2	37
39	Hybrid microfluidics combined with active and passive approaches for continuous cell separation. Electrophoresis, 2017, 38, 238-249.	1.3	138
40	Double-Mode Microparticle Manipulation by Tunable Secondary Flow in Microchannel With Arc-Shaped Groove Arrays. IEEE Transactions on Biomedical Circuits and Systems, 2017, 11, 1406-1412.	2.7	8
41	Analysis of Hydrodynamic Mechanism on Particles Focusing in Micro-Channel Flows. Micromachines, 2017, 8, 197.	1.4	17
42	The Continuous Concentration of Particles and Cancer Cell Line Using Cell Margination in a Groove-Based Channel. Micromachines, 2017, 8, 315.	1.4	5
43	Tunable Particle Focusing in a Straight Channel with Symmetric Semicircle Obstacle Arrays Using Electrophoresis-Modified Inertial Effects. Micromachines, 2016, 7, 195.	1.4	19
44	Investigation of particle lateral migration in sampleâ€šsheath flow of viscoelastic fluid and Newtonian fluid. Electrophoresis, 2016, 37, 2147-2155.	1.3	36
45	High Throughput Cell-Free Extraction of Plasma by an Integrated Microfluidic Device Combining Inertial Microfluidics and Membrane. , 2016, , .		0
46	A label-free and high-throughput separation of neuron and glial cells using an inertial microfluidic platform. Biomicrofluidics, 2016, 10, 034104.	1.2	11
47	Characteristics of a dynamic atomic force microscopy based on a higher-order resonant silicon cantilever and experiments. Measurement: Journal of the International Measurement Confederation, 2016, 94, 31-36.	2.5	4
48	Continuous plasma extraction under viscoelastic fluid in a straight channel with asymmetrical expansionâ€šcontraction cavity arrays. Lab on A Chip, 2016, 16, 3919-3928.	3.1	50
49	A novel viscoelastic-based ferrofluid for continuous sheathless microfluidic separation of nonmagnetic microparticles. Lab on A Chip, 2016, 16, 3947-3956.	3.1	73
50	Development of a novel magnetophoresis-assisted hydrophoresis microdevice for rapid particle ordering. Biomedical Microdevices, 2016, 18, 54.	1.4	16
51	Fundamentals and applications of inertial microfluidics: a review. Lab on A Chip, 2016, 16, 10-34.	3.1	737
52	An integrated dielectrophoresis-active hydrophoretic microchip for continuous particle filtration and separation. Journal of Micromechanics and Microengineering, 2015, 25, 084010.	1.5	26
53	Liquid Metal Composites with Anisotropic and Unconventional Piezoconductivity. SSRN Electronic Journal, 0, , .	0.4	0