

# Jun Zhang

## List of Publications by Year in descending order

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77  
papers

3,570  
citations

182225

30  
h-index

156644

58  
g-index

80  
all docs

80  
docs citations

80  
times ranked

3236  
citing authors

#	ARTICLE	IF	CITATIONS
1	Lab-on-a-chip (lab-on-a-phone) for analysis of blood and diagnosis of blood diseases. , 2022, , 237-264.		2
2	Multiphysics microfluidics for cell manipulation and separation: a review. Lab on A Chip, 2022, 22, 423-444.	3.1	47
3	Magnetic cell separation. , 2022, , 193-225.		2
4	On-demand deterministic release of particles and cells using stretchable microfluidics. Nanoscale Horizons, 2022, 7, 414-424.	4.1	6
5	Enhanced Blood Plasma Extraction Utilising Viscoelastic Effects in a Serpentine Microchannel. Biosensors, 2022, 12, 120.	2.3	4
6	Tuning particle inertial separation in sinusoidal channels by embedding periodic obstacle microstructures. Lab on A Chip, 2022, 22, 2789-2800.	3.1	24
7	Atherothrombosisâ€œonâ€œChip: A Siteâ€œSpecific Microfluidic Model for Thrombus Formation and Drug Discovery. Advanced Biology, 2022, 6, .	1.4	8
8	Signal-Based Methods in Dielectrophoresis for Cell and Particle Separation. Biosensors, 2022, 12, 510.	2.3	12
9	Digital Imagingâ€œBased Colourimetry for Enzymatic Processes in Transparent Liquid Marbles. ChemPhysChem, 2021, 22, 99-105.	1.0	12
10	Nonlinear microfluidics: device physics, functions, and applications. Lab on A Chip, 2021, 21, 1241-1268.	3.1	32
11	Multiplexed serpentine microchannels for high-throughput sorting of disseminated tumor cells from malignant pleural effusion. Sensors and Actuators B: Chemical, 2021, 337, 129758.	4.0	34
12	Sheathless Separation of Cyanobacterial <i>Anabaena</i> by Shape Using Viscoelastic Microfluidics. Analytical Chemistry, 2021, 93, 12648-12654.	3.2	24
13	Investigation of viscoelastic focusing of particles and cells in a zigzag microchannel. Electrophoresis, 2021, 42, 2230-2237.	1.3	10
14	Oscillating sessile liquid marble - A tool to assess effective surface tension. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 627, 127176.	2.3	10
15	Size-tuneable isolation of cancer cells using stretchable inertial microfluidics. Lab on A Chip, 2021, 21, 2008-2018.	3.1	21
16	Magnetofluidic spreading in circular chambers under a uniform magnetic field. Microfluidics and Nanofluidics, 2020, 24, 1.	1.0	3
17	Stretchable Inertial Microfluidic Device for Tunable Particle Separation. Analytical Chemistry, 2020, 92, 12473-12480.	3.2	25
18	A Review of Secondary Flow in Inertial Microfluidics. Micromachines, 2020, 11, 461.	1.4	75

#	ARTICLE	IF	CITATIONS
19	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
20	High-Efficiency Plasma Separator Based on Immunocapture and Filtration. <i>Micromachines</i> , 2020, 11, 352.	1.4	10
21	Direct Measurement of the Contents, Thickness, and Internal Pressure of Molybdenum Disulfide Nanoblisters. <i>Nano Letters</i> , 2020, 20, 3478-3484.	4.5	14
22	Knockdown of TXNDC9 induces apoptosis and autophagy in glioma and mediates cell differentiation by p53 activation. <i>Aging</i> , 2020, 12, 18649-18659.	1.4	7
23	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
24	Demonstration of Electron/Hole Injections in the Gate of $\beta$ -GaN/AlGaN/GaN Power Transistors and Their Effect on Device Dynamic Performance. , 2019, , .		10
25	Fundamentals of Differential Particle Inertial Focusing in Symmetric Sinusoidal Microchannels. <i>Analytical Chemistry</i> , 2019, 91, 4077-4084.	3.2	51
26	MiR-130a exerts neuroprotective effects against ischemic stroke through PTEN/PI3K/AKT pathway. <i>Biomedicine and Pharmacotherapy</i> , 2019, 117, 109117.	2.5	71
27	Accurate dielectrophoretic positioning of a floating liquid marble with a two-electrode configuration. <i>Microfluidics and Nanofluidics</i> , 2019, 23, 1.	1.0	17
28	Synchronized generation and coalescence of largely dissimilar microdroplets governed by pulsating continuous-phase flow. <i>Applied Physics Letters</i> , 2019, 114, .	1.5	9
29	Dean-flow-coupled elasto-inertial particle and cell focusing in symmetric serpentine microchannels. <i>Microfluidics and Nanofluidics</i> , 2019, 23, 1.	1.0	33
30	Microfluidic Array Chip for Parallel Detection of Waterborne Bacteria. <i>Micromachines</i> , 2019, 10, 883.	1.4	13
31	Flexible Microfluidics: Fundamentals, Recent Developments, and Applications. <i>Micromachines</i> , 2019, 10, 830.	1.4	130
32	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
33	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
34	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
35	Integrated aeroelastic vibrator for fluid mixing in open microwells. <i>Journal of Micromechanics and Microengineering</i> , 2018, 28, 017001.	1.5	4
36	Versatile Microfluidic Platforms Enabled by Novel Magnetorheological Elastomer Microactuators. <i>Advanced Functional Materials</i> , 2018, 28, 1705484.	7.8	71

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37	A rapid, maskless 3D prototyping for fabrication of capillary circuits: Toward urinary protein detection. <i>Electrophoresis</i> , 2018, 39, 957-964.	1.3	6
38	Recent progress of particle migration in viscoelastic fluids. <i>Lab on A Chip</i> , 2018, 18, 551-567.	3.1	186
39	Design of a Single-Layer Microchannel for Continuous Sheathless Single-Stream Particle Inertial Focusing. <i>Analytical Chemistry</i> , 2018, 90, 1786-1794.	3.2	27
40	A low cost, membranes based serum separator modular. <i>Biomicrofluidics</i> , 2018, 12, 024108.	1.2	7
41	A portable, hand-powered microfluidic device for sorting of biological particles. <i>Microfluidics and Nanofluidics</i> , 2018, 22, 1.	1.0	28
42	Sheathless Dean-flow-coupled elasto-inertial particle focusing and separation in viscoelastic fluid. <i>RSC Advances</i> , 2017, 7, 3461-3469.	1.7	35
43	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
44	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
45	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
46	High-Throughput Separation of White Blood Cells From Whole Blood Using Inertial Microfluidics. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2017, 11, 1422-1430.	2.7	47
47	On-Chip Microparticle and Cell Washing Using Coflow of Viscoelastic Fluid and Newtonian Fluid. <i>Analytical Chemistry</i> , 2017, 89, 9574-9582.	3.2	37
48	Inertial Microfluidics: Mechanisms and Applications. <i>Microsystems and Nanosystems</i> , 2017, , 563-593.	0.1	6
49	Hybrid microfluidics combined with active and passive approaches for continuous cell separation. <i>Electrophoresis</i> , 2017, 38, 238-249.	1.3	138
50	Double-Mode Microparticle Manipulation by Tunable Secondary Flow in Microchannel With Arc-Shaped Groove Arrays. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2017, 11, 1406-1412.	2.7	8
51	The Continuous Concentration of Particles and Cancer Cell Line Using Cell Margination in a Groove-Based Channel. <i>Micromachines</i> , 2017, 8, 315.	1.4	5
52	Tunable Particle Focusing in a Straight Channel with Symmetric Semicircle Obstacle Arrays Using Electrophoresis-Modified Inertial Effects. <i>Micromachines</i> , 2016, 7, 195.	1.4	19
53	Investigation of particle lateral migration in sample's sheath flow of viscoelastic fluid and Newtonian fluid. <i>Electrophoresis</i> , 2016, 37, 2147-2155.	1.3	36
54	High Throughput Cell-Free Extraction of Plasma by an Integrated Microfluidic Device Combining Inertial Microfluidics and Membrane. , 2016, , .		0

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55	A label-free and high-throughput separation of neuron and glial cells using an inertial microfluidic platform. <i>Biomicrofluidics</i> , 2016, 10, 034104.	1.2	11
56	High-throughput, sheathless, magnetophoretic separation of magnetic and non-magnetic particles with a groove-based channel. <i>Applied Physics Letters</i> , 2016, 109, .	1.5	16
57	An inverted micro-mixer based on a magnetically-actuated cilium made of Fe doped PDMS. <i>Smart Materials and Structures</i> , 2016, 25, 095049.	1.8	16
58	Continuous plasma extraction under viscoelastic fluid in a straight channel with asymmetrical expansion–contraction cavity arrays. <i>Lab on A Chip</i> , 2016, 16, 3919-3928.	3.1	50
59	A novel viscoelastic-based ferrofluid for continuous sheathless microfluidic separation of nonmagnetic microparticles. <i>Lab on A Chip</i> , 2016, 16, 3947-3956.	3.1	73
60	Development of a novel magnetophoresis-assisted hydrophoresis microdevice for rapid particle ordering. <i>Biomedical Microdevices</i> , 2016, 18, 54.	1.4	16
61	Multiplexing slanted spiral microchannels for ultra-fast blood plasma separation. <i>Lab on A Chip</i> , 2016, 16, 2791-2802.	3.1	135
62	Three-dimensional particle focusing under viscoelastic flow based on dean-flow-coupled elasto-inertial effects. , 2016, , .		0
63	Fundamentals and applications of inertial microfluidics: a review. <i>Lab on A Chip</i> , 2016, 16, 10-34.	3.1	737
64	Dean-flow-coupled elasto-inertial three-dimensional particle focusing under viscoelastic flow in a straight channel with asymmetrical expansion–contraction cavity arrays. <i>Biomicrofluidics</i> , 2015, 9, 044108.	1.2	49
65	A hybrid dielectrophoretic and hydrophoretic microchip for particle sorting using integrated prefocusing and sorting steps. <i>Electrophoresis</i> , 2015, 36, 284-291.	1.3	34
66	An integrated dielectrophoresis-active hydrophoretic microchip for continuous particle filtration and separation. <i>Journal of Micromechanics and Microengineering</i> , 2015, 25, 084010.	1.5	26
67	Making a hydrophoretic focuser tunable using a diaphragm. <i>Biomicrofluidics</i> , 2014, 8, 064115.	1.2	9
68	Particle inertial focusing and its mechanism in a serpentine microchannel. <i>Microfluidics and Nanofluidics</i> , 2014, 17, 305-316.	1.0	114
69	Influence of void space on microscopic behavior of fluid flow in rock joints. <i>International Journal of Mining Science and Technology</i> , 2014, 24, 335-340.	4.6	8
70	A review of microfabrication techniques and dielectrophoretic microdevices for particle manipulation and separation. <i>Journal Physics D: Applied Physics</i> , 2014, 47, 063001.	1.3	174
71	Real-time control of inertial focusing in microfluidics using dielectrophoresis (DEP). <i>RSC Advances</i> , 2014, 4, 62076-62085.	1.7	62
72	High throughput extraction of plasma using a secondary flow-aided inertial microfluidic device. <i>RSC Advances</i> , 2014, 4, 33149.	1.7	88

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73	Isolating plasma from blood using a dielectrophoresis-active hydrophoretic device. Lab on A Chip, 2014, 14, 2993.	3.1	73
74	On-chip high-throughput manipulation of particles in a dielectrophoresis-active hydrophoretic focuser. Scientific Reports, 2014, 4, 5060.	1.6	46
75	Inertial particle separation by differential equilibrium positions in a symmetrical serpentine micro-channel. Scientific Reports, 2014, 4, 4527.	1.6	152
76	Inertial focusing in a straight channel with asymmetrical expansionâ€“contraction cavity arrays using two secondary flows. Journal of Micromechanics and Microengineering, 2013, 23, 085023.	1.5	57
77	Investigation of trapping process in â€œCentrifuge-on-a-chipâ€, 2013, , .		1