Aram J Chung

List of Publications by Year
in descending order

40 papers	2,147 citations	279798 23 h-index	315739 38 g-index
42 all docs	42 docs citations	42 times ranked	2968 citing authors

#	Article	IF	Citations
1	Microfluidics-enabled orientation and microstructure control of macroscopic graphene fibres. Nature Nanotechnology, 2019, 14, 168-175.	31.5	207
2	Optofluidic waveguides for reconfigurable photonic systems. Optics Express, 2011, 19, 8602.	3.4	190
3	Surface enhanced Raman spectroscopy and its application to molecular and cellular analysis. Microfluidics and Nanofluidics, 2009, 6, 285-297.	2.2	186
4	Three Dimensional, Sheathless, and Highâ€Throughput Microparticle Inertial Focusing Through Geometryâ€Induced Secondary Flows. Small, 2013, 9, 685-690.	10.0	163
5	Continuous inertial microparticle and blood cell separation in straight channels with local microstructures. Lab on A Chip, 2016, 16, 532-542.	6.0	115
6	Enhanced on-chip SERS based biomolecular detection using electrokinetically active microwells. Lab on A Chip, 2009, 9, 433-439.	6.0	103
7	Optofluidic fabrication for 3D-shaped particles. Nature Communications, 2015, 6, 6976.	12.8	101
8	Large area flexible SERS active substrates using engineered nanostructures. Nanoscale, 2011, 3, 2903.	5.6	91
9	Microstructure-induced helical vortices allow single-stream and long-term inertial focusing. Lab on A Chip, 2013, 13, 2942.	6.0	90
10	Advances in high-throughput single-cell microtechnologies. Current Opinion in Biotechnology, 2014, 25, 114-123.	6.6	86
11	Electrokinetic microfluidic devices for rapid, low power drug delivery in autonomous microsystems. Lab on A Chip, 2008, 8, 330-338.	6.0	85
12	Pulsed Laser Activated Cell Sorting with Three Dimensional Sheathless Inertial Focusing. Small, 2014, 10, 1746-1751.	10.0	66
13	Intracellular Delivery of Nanomaterials via an Inertial Microfluidic Cell Hydroporator. Nano Letters, 2018, 18, 2705-2710.	9.1	65
14	A Minireview on Inertial Microfluidics Fundamentals: Inertial Particle Focusing and Secondary Flow. Biochip Journal, 2019, 13, 53-63.	4.9	63
15	A robust, electrochemically driven microwell drug delivery system for controlled vasopressin release. Biomedical Microdevices, 2009, 11, 861-867.	2.8	58
16	Inertial Microfluidic Cell Stretcher (iMCS): Fully Automated, Highâ€Throughput, and Near Realâ€Time Cell Mechanotyping. Small, 2017, 13, 1700705.	10.0	56
17	Microfluidic Cell Stretching for Highly Effective Gene Delivery into Hard-to-Transfect Primary Cells. ACS Nano, 2020, 14, 15094-15106.	14.6	55
18	Hydroporator: a hydrodynamic cell membrane perforator for high-throughput vector-free nanomaterial intracellular delivery and DNA origami biostability evaluation. Lab on A Chip, 2019, 19, 1747-1754.	6.0	50

#	Article	IF	Citations
19	Intracellular Nanomaterial Delivery <i>via</i> Spiral Hydroporation. ACS Nano, 2020, 14, 3048-3058.	14.6	45
20	Highly Efficient Transfection of Human Primary T Lymphocytes Using Droplet-Enabled Mechanoporation. ACS Nano, 2021, 15, 12888-12898.	14.6	36
21	Microfluidic and Nanofluidic Intracellular Delivery. Advanced Science, 2021, 8, e2004595.	11.2	34
22	Sugar Additives Improve Signal Fidelity for Implementing Two-Phase Resorufin-Based Enzyme Immunoassays. Langmuir, 2014, 30, 6637-6643.	3.5	33
23	Non-spherical particle generation from 4D optofluidic fabrication. Lab on A Chip, 2016, 16, 2987-2995.	6.0	25
24	Microfluidic Impedanceâ€Deformability Cytometry for Labelâ€Free Single Neutrophil Mechanophenotyping. Small, 2022, 18, e2104822.	10.0	24
25	Engineering insect flight metabolics using immature stage implanted microfluidics. Lab on A Chip, 2009, 9, 669-676.	6.0	20
26	DIY 3D Microparticle Generation from Next Generation Optofluidic Fabrication. Advanced Science, 2018, 5, 1800252.	11.2	19
27	Implantable microfluidic and electronic systems for insect flight manipulation. Microfluidics and Nanofluidics, 2012, 13, 345-352.	2.2	18
28	A novel polymer microneedle fabrication process for active fluidic delivery. Microfluidics and Nanofluidics, 2011, 10, 785-791.	2.2	13
29	Nanoscale Terahertz Monitoring on Multiphase Dynamic Assembly of Nanoparticles under Aqueous Environment. Advanced Science, 2021, 8, e2004826.	11.2	12
30	Melanoma cells adopt features of both mesenchymal and amoeboid migration within confining channels. Scientific Reports, 2021, 11, 17804.	3.3	10
31	Analysis of liquid-to-solid coupling and other performance parameters for microfluidically reconfigurable photonic systems. Optics Express, 2010, 18, 10973.	3.4	8
32	Microfluidics: Inertial Microfluidic Cell Stretcher (iMCS): Fully Automated, High-Throughput, and Near Real-Time Cell Mechanotyping (Small 28/2017). Small, 2017, 13, .	10.0	4
33	Development of a Photonic Switch via Electroâ€Capillarityâ€Induced Water Penetration Across a 10â€nm Gap. Small, 2022, 18, 2107060.	10.0	3
34	Pulsed laser activated cell sorter (PLACS) for high-throughput fluorescent mammalian cell sorting. Proceedings of SPIE, 2014, , .	0.8	2
35	Microfluidics: Three Dimensional, Sheathless, and Highâ€Throughput Microparticle Inertial Focusing Through Geometryâ€Induced Secondary Flows (Small 5/2013). Small, 2013, 9, 804-804.	10.0	1
36	Pulsed laser activated cell sorting with three dimensional sheathless inertial focusing. , 2014, , .		1

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37	Non-special particle generation from 4D optofluidic fabrication. , 2016, , .		1
38	Microfluidic Impedanceâ€Deformability Cytometry for Labelâ€Free Single Neutrophil Mechanophenotyping (Small 18/2022). Small, 2022, 18, .	10.0	1
39	Density Assisted Optofluidic Fabrication of 3D Shaped Particles. , 2015, , .		0
40	Reconfigurable Photonics from Microfluidic Waveguides. , 2010, , .		0