

Leidong Mao

List of Publications by Year in descending order

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45
papers

1,683
citations

331670

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39
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all docs

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docs citations

46
times ranked

2042
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhancing membrane-based soft materials with magnetic reconfiguration events. <i>Scientific Reports</i> , 2022, 12, 1703.	3.3	3
2	The macroscopic limit to synchronization of cellular clocks in single cells of <i>Neurospora crassa</i> . <i>Scientific Reports</i> , 2022, 12, 6750.	3.3	1
3	Label-free inertial-ferrohydrodynamic cell separation with high throughput and resolution. <i>Lab on A Chip</i> , 2021, 21, 2738-2750.	6.0	22
4	Fundamentals of integrated ferrohydrodynamic cell separation in circulating tumor cell isolation. <i>Lab on A Chip</i> , 2021, 21, 1706-1723.	6.0	15
5	Simultaneous biochemical and functional phenotyping of single circulating tumor cells using ultrahigh throughput and recovery microfluidic devices. <i>Lab on A Chip</i> , 2021, 21, 3583-3597.	6.0	9
6	Wild Isolates of <i>Neurospora crassa</i> Reveal Three Conidiophore Architectural Phenotypes. <i>Microorganisms</i> , 2020, 8, 1760.	3.6	2
7	Label-free ferrohydrodynamic separation of exosome-like nanoparticles. <i>Lab on A Chip</i> , 2020, 20, 3187-3201.	6.0	22
8	Single Cells of <i>Neurospora Crassa</i> Show Circadian Oscillations, Light Entrainment, Temperature Compensation, and Phase Synchronization. <i>IEEE Access</i> , 2019, 7, 49403-49417.	4.2	6
9	Tumor antigen-independent and cell size variation-inclusive enrichment of viable circulating tumor cells. <i>Lab on A Chip</i> , 2019, 19, 1860-1876.	6.0	43
10	Manipulation of Single Cells Using a Ferromagnetic Nanorod Cluster Actuated by Weak AC Magnetic Fields. <i>Advanced Biology</i> , 2019, 3, e1800246.	3.0	11
11	What is Phase in Cellular Clocks?. <i>Yale Journal of Biology and Medicine</i> , 2019, 92, 169-178.	0.2	3
12	Microfluidics in Malignant Glioma Research and Precision Medicine. <i>Advanced Biology</i> , 2018, 2, 1700221.	3.0	25
13	Magnetic resonance conditional paramagnetic choke for suppression of imaging artifacts during magnetic resonance imaging. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2018, 232, 597-604.	1.8	2
14	Reconfiguring ferromagnetic microrod chains by alternating two orthogonal magnetic fields. <i>Journal of Physics Condensed Matter</i> , 2018, 30, 315101.	1.8	0
15	Active colloids: Toward an intelligent micromachine. , 2018, , 279-312.		1
16	Biocompatible and label-free separation of cancer cells from cell culture lines from white blood cells in ferrofluids. <i>Lab on A Chip</i> , 2017, 17, 2243-2255.	6.0	55
17	Label-free ferrohydrodynamic cell separation of circulating tumor cells. <i>Lab on A Chip</i> , 2017, 17, 3097-3111.	6.0	56
18	Ferrofluid-Based Droplet Interface Bilayer Networks. <i>Langmuir</i> , 2017, 33, 13000-13007.	3.5	11

#	ARTICLE	IF	CITATIONS
19	Label-Free and Continuous-Flow Ferrohydrodynamic Separation of HeLa Cells and Blood Cells in Biocompatible Ferrofluids. <i>Advanced Functional Materials</i> , 2016, 26, 3990-3998.	14.9	77
20	The Magnetohydrodynamic Effect and Its Associated Material Designs for Biomedical Applications: A State-of-the-Art Review. <i>Advanced Functional Materials</i> , 2016, 26, 3942-3952.	14.9	36
21	Clioma cell invasion is significantly enhanced in composite hydrogel matrices composed of chondroitin 4- and 4,6-sulfated glycosaminoglycans. <i>Journal of Materials Chemistry B</i> , 2016, 4, 6052-6064.	5.8	28
22	Dynamic scaling of ferromagnetic micro-rod clusters under a weak magnetic field. <i>Soft Matter</i> , 2016, 12, 8440-8447.	2.7	5
23	Synchronizing stochastic circadian oscillators in single cells of <i>Neurospora crassa</i> . <i>Scientific Reports</i> , 2016, 6, 35828.	3.3	17
24	Label-Free Microfluidic Manipulation of Particles and Cells in Magnetic Liquids. <i>Advanced Functional Materials</i> , 2016, 26, 3916-3932.	14.9	123
25	Magnetically Responsive Droplet Interface Bilayer Networks. , 2015, , .		0
26	Magnetohydrodynamic-Driven Design of Microscopic Endocapsules in MRI. <i>IEEE/ASME Transactions on Mechatronics</i> , 2015, 20, 2691-2698.	5.8	12
27	Magnetic-Field-Assisted Fabrication and Manipulation of Nonspherical Polymer Particles in Ferrofluid-Based Droplet Microfluidics. <i>Langmuir</i> , 2015, 31, 8531-8534.	3.5	18
28	Three-dimensional and analytical modeling of microfluidic particle transport in magnetic fluids. <i>Microfluidics and Nanofluidics</i> , 2014, 16, 1143-1154.	2.2	36
29	Combining positive and negative magnetophoreses to separate particles of different magnetic properties. <i>Microfluidics and Nanofluidics</i> , 2014, 17, 973-982.	2.2	43
30	Ferrofluidic platform for cell and droplet manipulation. , 2013, , .		1
31	Continuous-flow ferrohydrodynamic sorting of particles and cells in microfluidic devices. <i>Microfluidics and Nanofluidics</i> , 2012, 13, 645-654.	2.2	99
32	Magnetic Nanoparticle-Based Hyperthermia for Head & Neck Cancer in Mouse Models. <i>Theranostics</i> , 2012, 2, 113-121.	10.0	143
33	Direct observation of closed-loop ferrohydrodynamic pumping under traveling magnetic fields. <i>Physical Review B</i> , 2011, 84, .	3.2	44
34	Analytical model of microfluidic transport of non-magnetic particles in ferrofluids under the influence of a permanent magnet. <i>Microfluidics and Nanofluidics</i> , 2011, 10, 1233-1245.	2.2	82
35	Focusing microparticles in a microfluidic channel with ferrofluids. <i>Microfluidics and Nanofluidics</i> , 2011, 11, 695-701.	2.2	63
36	Thiolene-based microfluidic flow cells for surface plasmon resonance imaging. <i>Biomicrofluidics</i> , 2011, 5, 26501.	2.4	11

#	ARTICLE	IF	CITATIONS
37	Focusing microparticles in a microfluidic channel with ferrofluids. , 2011, , .		1
38	Continuous separation of non-magnetic particles inside ferrofluids. Microfluidics and Nanofluidics, 2010, 9, 1003-1009.	2.2	83
39	High Density Orthogonal Surface Immobilization via Photoactivated Copper-Free Click Chemistry. Journal of the American Chemical Society, 2010, 132, 11024-11026.	13.7	203
40	Label-free cellular manipulation and sorting via biocompatible ferrofluids. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 21478-21483.	7.1	158
41	Ferro-microfluidic device for pathogen detection. , 2008, , .		6
42	Overcoming the Diffusion Barrier: Ultra-Fast Micro-Scale Mixing Via Ferrofluids. , 2007, , .		10
43	Biomedical Engineered Ferrofluids. Materials Research Society Symposia Proceedings, 2007, 1032, 1.	0.1	1
44	Towards ferrofluidics for μ -TAS and lab on-a-chip applications. Nanotechnology, 2006, 17, S34-S47.	2.6	59
45	Ferrohydrodynamic pumping in spatially traveling sinusoidally time-varying magnetic fields. Journal of Magnetism and Magnetic Materials, 2005, 289, 199-202.	2.3	36