

Leidong Mao

List of Publications by Year in descending order

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45
papers

1,683
citations

331670

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46
all docs

46
docs citations

46
times ranked

2042
citing authors

#	ARTICLE	IF	CITATIONS
1	High Density Orthogonal Surface Immobilization via Photoactivated Copper-Free Click Chemistry. <i>Journal of the American Chemical Society</i> , 2010, 132, 11024-11026.	13.7	203
2	Label-free cellular manipulation and sorting via biocompatible ferrofluids. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 21478-21483.	7.1	158
3	Magnetic Nanoparticle-Based Hyperthermia for Head & Neck Cancer in Mouse Models. <i>Theranostics</i> , 2012, 2, 113-121.	10.0	143
4	Label-Free Microfluidic Manipulation of Particles and Cells in Magnetic Liquids. <i>Advanced Functional Materials</i> , 2016, 26, 3916-3932.	14.9	123
5	Continuous-flow ferrohydrodynamic sorting of particles and cells in microfluidic devices. <i>Microfluidics and Nanofluidics</i> , 2012, 13, 645-654.	2.2	99
6	Continuous separation of non-magnetic particles inside ferrofluids. <i>Microfluidics and Nanofluidics</i> , 2010, 9, 1003-1009.	2.2	83
7	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
8	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
9	Focusing microparticles in a microfluidic channel with ferrofluids. <i>Microfluidics and Nanofluidics</i> , 2011, 11, 695-701.	2.2	63
10	Towards ferrofluidics for μ -TAS and lab on-a-chip applications. <i>Nanotechnology</i> , 2006, 17, S34-S47.	2.6	59
11	Label-free ferrohydrodynamic cell separation of circulating tumor cells. <i>Lab on A Chip</i> , 2017, 17, 3097-3111.	6.0	56
12	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
13	Direct observation of closed-loop ferrohydrodynamic pumping under traveling magnetic fields. <i>Physical Review B</i> , 2011, 84, .	3.2	44
14	Combining positive and negative magnetophoreses to separate particles of different magnetic properties. <i>Microfluidics and Nanofluidics</i> , 2014, 17, 973-982.	2.2	43
15	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
16	Ferrohydrodynamic pumping in spatially traveling sinusoidally time-varying magnetic fields. <i>Journal of Magnetism and Magnetic Materials</i> , 2005, 289, 199-202.	2.3	36
17	Three-dimensional and analytical modeling of microfluidic particle transport in magnetic fluids. <i>Microfluidics and Nanofluidics</i> , 2014, 16, 1143-1154.	2.2	36
18	The Magneto-hydrodynamic 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

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19	Glioma 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
20	Microfluidics in Malignant Glioma Research and Precision Medicine. <i>Advanced Biology</i> , 2018, 2, 1700221.	3.0	25
21	Label-free ferrohydrodynamic separation of exosome-like nanoparticles. <i>Lab on A Chip</i> , 2020, 20, 3187-3201.	6.0	22
22	Label-free inertial-ferrohydrodynamic cell separation with high throughput and resolution. <i>Lab on A Chip</i> , 2021, 21, 2738-2750.	6.0	22
23	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
24	Synchronizing stochastic circadian oscillators in single cells of <i>Neurospora crassa</i> . <i>Scientific Reports</i> , 2016, 6, 35828.	3.3	17
25	Fundamentals of integrated ferrohydrodynamic cell separation in circulating tumor cell isolation. <i>Lab on A Chip</i> , 2021, 21, 1706-1723.	6.0	15
26	Magneto-hydrodynamic-Driven Design of Microscopic Endocapsules in MRI. <i>IEEE/ASME Transactions on Mechatronics</i> , 2015, 20, 2691-2698.	5.8	12
27	Thiolene-based microfluidic flow cells for surface plasmon resonance imaging. <i>Biomicrofluidics</i> , 2011, 5, 26501.	2.4	11
28	Ferrofluid-Based Droplet Interface Bilayer Networks. <i>Langmuir</i> , 2017, 33, 13000-13007.	3.5	11
29	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
30	Overcoming the Diffusion Barrier: Ultra-Fast Micro-Scale Mixing Via Ferrofluids. , 2007, , .		10
31	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
32	Ferro-microfluidic device for pathogen detection. , 2008, , .		6
33	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
34	Dynamic scaling of ferromagnetic micro-rod clusters under a weak magnetic field. <i>Soft Matter</i> , 2016, 12, 8440-8447.	2.7	5
35	What is Phase in Cellular Clocks?. <i>Yale Journal of Biology and Medicine</i> , 2019, 92, 169-178.	0.2	3
36	Enhancing membrane-based soft materials with magnetic reconfiguration events. <i>Scientific Reports</i> , 2022, 12, 1703.	3.3	3

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37	Magnetic resonance conditional paramagnetic choke for suppression of imaging artifacts during magnetic resonance imaging. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2018, 232, 597-604.	1.8	2
38	Wild Isolates of Neurospora crassa Reveal Three Conidiophore Architectural Phenotypes. Microorganisms, 2020, 8, 1760.	3.6	2
39	Biomedical Engineered Ferrofluids. Materials Research Society Symposia Proceedings, 2007, 1032, 1.	0.1	1
40	Focusing microparticles in a microfluidic channel with ferrofluids. , 2011, , .		1
41	Ferrofluidic platform for cell and droplet manipulation. , 2013, , .		1
42	Active colloids: Toward an intelligent micromachine. , 2018, , 279-312.		1
43	The macroscopic limit to synchronization of cellular clocks in single cells of Neurospora crassa. Scientific Reports, 2022, 12, 6750.	3.3	1
44	Magnetically Responsive Droplet Interface Bilayer Networks. , 2015, , .		0
45	Reconfiguring ferromagnetic microrod chains by alternating two orthogonal magnetic fields. Journal of Physics Condensed Matter, 2018, 30, 315101.	1.8	0