# Rui Cheng

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/1333376/publications.pdf

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| 26 | 1,163 | 471509 | 642732 |
|---|---|---|---|
| papers | citations | 17 h-index | 23 g-index |

| 26 | 26 | 26 | 1609 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Acceleration of Tissue Plasminogen Activator-Mediated Thrombolysis by Magnetically Powered Nanomotors. ACS Nano, 2014, 8, 7746-7754. | 14.6 | 160 |
| 2 | Magnetic Nanoparticle-Based Hyperthermia for Head & Neck Cancer in Mouse Models. Theranostics, 2012, 2, 113-121. | 10.0 | 143 |
| 3 | Labelâ€Free Microfluidic Manipulation of Particles and Cells in Magnetic Liquids. Advanced Functional Materials, 2016, 26, 3916-3932. | 14.9 | 123 |
| 4 | Continuous-flow ferrohydrodynamic sorting of particles and cells in microfluidic devices. Microfluidics and Nanofluidics, 2012, 13, 645-654. | 2.2 | 99 |
| 5 | Three-Dimensional Fluid-Structure Interaction Simulation of Bileaflet Mechanical Heart Valve Flow Dynamics. Annals of Biomedical Engineering, 2004, 32, 1471-1483. | 2.5 | 93 |
| 6 | Labelâ€Free and Continuousâ€Flow Ferrohydrodynamic Separation of HeLa Cells and Blood Cells in Biocompatible Ferrofluids. Advanced Functional Materials, 2016, 26, 3990-3998. | 14.9 | 77 |
| 7 | Focusing microparticles in a microfluidic channel with ferrofluids. Microfluidics and Nanofluidics, 2011, 11, 695-701. | 2.2 | 63 |
| 8 | Label-free ferrohydrodynamic cell separation of circulating tumor cells. Lab on A Chip, 2017, 17, 3097-3111. | 6.0 | 56 |
| 9 | Biocompatible and label-free separation of cancer cells from cell culture lines from white blood cells in ferrofluids. Lab on A Chip, 2017, 17, 2243-2255. | 6.0 | 55 |
| 10 | Combining positive and negative magnetophoreses to separate particles of different magnetic properties. Microfluidics and Nanofluidics, 2014, 17, 973-982. | 2.2 | 43 |
| 11 | Tumor antigen-independent and cell size variation-inclusive enrichment of viable circulating tumor cells. Lab on A Chip, 2019, 19, 1860-1876. | 6.0 | 43 |
| 12 | Three-dimensional and analytical modeling of microfluidic particle transport in magnetic fluids. Microfluidics and Nanofluidics, 2014, 16, 1143-1154. | 2.2 | 36 |
| 13 | The Magnetohydrodynamic Effect and Its Associated Material Designs for Biomedical Applications: A Stateâ€ofâ€theâ€Art Review. Advanced Functional Materials, 2016, 26, 3942-3952. | 14.9 | 36 |
| 14 | Two-dimensional fluid-structure interaction simulation of bileaflet mechanical heart valve flow dynamics. Journal of Heart Valve Disease, 2003, 12, 772-80. | 0.5 | 24 |
| 15 | Label-free ferrohydrodynamic separation of exosome-like nanoparticles. Lab on A Chip, 2020, 20, 3187-3201. | 6.0 | 22 |
| 16 | Label-free inertial-ferrohydrodynamic cell separation with high throughput and resolution. Lab on A Chip, 2021, 21, 2738-2750. | 6.0 | 22 |
| 17 | Magnetic-Field-Assisted Fabrication and Manipulation of Nonspherical Polymer Particles in Ferrofluid-Based Droplet Microfluidics. Langmuir, 2015, 31, 8531-8534. | 3.5 | 18 |
| 18 | Fundamentals of integrated ferrohydrodynamic cell separation in circulating tumor cell isolation. Lab on A Chip, 2021, 21, 1706-1723. | 6.0 | 15 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Magnetohydrodynamic-Driven Design of Microscopic Endocapsules in MRI. IEEE/ASME Transactions on Mechatronics, 2015, 20, 2691-2698. | 5.8 | 12 |
| 20 | Simultaneous biochemical and functional phenotyping of single circulating tumor cells using ultrahigh throughput and recovery microfluidic devices. Lab on A Chip, 2021, 21, 3583-3597. | 6.0 | 9 |
| 21 | Influence of Capillarity on Nano-Liter Flowrate Measuremet with Displacemet Method. Journal of Hydrodynamics, 2007, 19, 594-600. | 3.2 | 5 |
| 22 | Dynamic scaling of ferromagnetic micro-rod clusters under a weak magnetic field. Soft Matter, 2016, 12, 8440-8447. | 2.7 | 5 |
| 23 | 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 |
| 24 | Ferrofluidic platform for cell and droplet manipulation. , 2013, , . | | 1 |
| 25 | Active colloids: Toward an intelligent micromachine. , 2018, , 279-312. | | 1 |
| 26 | Reconfiguring ferromagnetic microrod chains by alternating two orthogonal magnetic fields. Journal of Physics Condensed Matter, 2018, 30, 315101. | 1.8 | 0 |