# Navid Kashaninejad

List of Publications by Year
in descending order



| 53 | 1,693 | 331538 | 289141 |
|---|---|---|---|
| papers | citations | 21 h-index | 40 g-index |

| 58 | 58 | 58 | 2295 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Spheroids-on-a-chip: Recent advances and design considerations in microfluidic platforms for spheroid formation and culture. Sensors and Actuators B: Chemical, 2018, 263, 151-176. | 4.0 | 175 |
| 2 | Design, fabrication and characterization of drug delivery systems based on lab-on-a-chip technology. Advanced Drug Delivery Reviews, 2013, 65, 1403-1419. | 6.6 | 173 |
| 3 | Recent Advances and Future Perspectives on Microfluidic Liquid Handling. Micromachines, 2017, 8, 186. | 1.4 | 131 |
| 4 | Nanozyme-based electrochemical biosensors for disease biomarker detection. Analyst, The, 2020, 145, 4398-4420. | 1.7 | 121 |
| 5 | Organ-Tumor-on-a-Chip for Chemosensitivity Assay: A Critical Review. Micromachines, 2016, 7, 130. | 1.4 | 67 |
| 6 | Advances in Microfluidicsâ€Based Assisted Reproductive Technology: From Sperm Sorter to Reproductive Systemâ€onâ€aâ€Chip. Advanced Biology, 2018, 2, 1700197. | 3.0 | 64 |
| 7 | A Comprehensive Review on Intracellular Delivery. Advanced Materials, 2021, 33, e2005363. | 11.1 | 58 |
| 8 | Autoantibodies as diagnostic and prognostic cancer biomarker: Detection techniques and approaches. Biosensors and Bioelectronics, 2019, 139, 111315. | 5.3 | 53 |
| 9 | Prediction of Necrotic Core and Hypoxic Zone of Multicellular Spheroids in a Microbioreactor with a U-Shaped Barrier. Micromachines, 2018, 9, 94. | 1.4 | 52 |
| 10 | Rapid Softlithography Using 3Dâ€Printed Molds. Advanced Materials Technologies, 2019, 4, 1900425. | 3.0 | 51 |
| 11 | Effects of magnetic nanoparticles on mixing in droplet-based microfluidics. Physics of Fluids, 2019, 31, . | 1.6 | 45 |
| 12 | Microneedle Arrays for Sampling and Sensing Skin Interstitial Fluid. Chemosensors, 2021, 9, 83. | 1.8 | 44 |
| 13 | Eccentricity Effect of Micropatterned Surface on Contact Angle. Langmuir, 2012, 28, 4793-4799. | 1.6 | 43 |
| 14 | Microfluidics for Porous Systems: Fabrication, Microscopy and Applications. Transport in Porous Media, 2019, 130, 277-304. | 1.2 | 43 |
| 15 | An Onâ€Chip SiC MEMS Device with Integrated Heating, Sensing, and Microfluidic Cooling Systems. Advanced Materials Interfaces, 2018, 5, 1800764. | 1.9 | 41 |
| 16 | Novel approaches in cancer management with circulating tumor cell clusters. Journal of Science: Advanced Materials and Devices, 2019, 4, 1-18. | 1.5 | 41 |
| 17 | Eccentricity effects of microhole arrays on drag reduction efficiency of microchannels with a hydrophobic wall. Physics of Fluids, 2012, 24, . | 1.6 | 31 |
| 18 | Simple, Cost-Effective, and Continuous 3D Dielectrophoretic Microchip for Concentration and Separation of Bioparticles. Industrial & Engineering Chemistry Research, 2020, 59, 3772-3783. | 1.8 | 31 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Fabrication and characterization of low-cost, bead-free, durable and hydrophobic electrospun membrane for 3D cell culture. Biomedical Microdevices, 2017, 19, 74. | 1.4 | 30 |
| 20 | An integrated microfluidic concentration gradient generator for mechanical stimulation and drug delivery. Journal of Science: Advanced Materials and Devices, 2021, 6, 280-290. | 1.5 | 24 |
| 21 | Cryoprotectant-Free Freezing of Cells Using Liquid Marbles Filled with Hydrogel. ACS Applied Materials & Interfaces, 2018, 10, 43439-43449. | 4.0 | 23 |
| 22 | A new non-dimensional parameter to obtain the minimum mixing length in tree-like concentration gradient generators. Chemical Engineering Science, 2019, 195, 120-126. | 1.9 | 22 |
| 23 | Numerical Simulation of the Behavior of Toroidal and Spheroidal Multicellular Aggregates in Microfluidic Devices with Microwell and U-Shaped Barrier. Micromachines, 2017, 8, 358. | 1.4 | 21 |
| 24 | Challenge in particle delivery to cells in a microfluidic device. Drug Delivery and Translational Research, 2018, 8, 830-842. | 3.0 | 21 |
| 25 | Wide-Band-Gap Semiconductors for Biointegrated Electronics: Recent Advances and Future Directions. ACS Applied Electronic Materials, 2021, 3, 1959-1981. | 2.0 | 21 |
| 26 | A high-performance polydimethylsiloxane electrospun membrane for cell culture in lab-on-a-chip. Biomicrofluidics, 2018, 12, 024117. | 1.2 | 19 |
| 27 | A tool for designing tree-like concentration gradient generators for lab-on-a-chip applications. Chemical Engineering Science, 2020, 212, 115339. | 1.9 | 19 |
| 28 | The three-phase contact line shape and eccentricity effect of anisotropic wetting on hydrophobic surfaces. Soft Matter, 2013, 9, 527-535. | 1.2 | 18 |
| 29 | Three-Dimensional Modeling of Avascular Tumor Growth in Both Static and Dynamic Culture Platforms. Micromachines, 2019, 10, 580. | 1.4 | 17 |
| 30 | RhoA and Rac1 in Liver Cancer Cells: Induction of Overexpression Using Mechanical Stimulation. Micromachines, 2020, 11, 729. | 1.4 | 16 |
| 31 | Anti-Cancer Drug Screening with Microfluidic Technology. Applied Sciences (Switzerland), 2021, 11, 9418. | 1.3 | 14 |
| 32 | PCR-Free Detection of Long Non-Coding HOTAIR RNA in Ovarian Cancer Cell Lines and Plasma Samples. Cancers, 2020, 12, 2233. | 1.7 | 12 |
| 33 | Signal-Based Methods in Dielectrophoresis for Cell and Particle Separation. Biosensors, 2022, 12, 510. | 2.3 | 12 |
| 34 | Advances in numerical approaches for microfluidic cell analysis platforms. Journal of Science: Advanced Materials and Devices, 2020, 5, 295-307. | 1.5 | 11 |
| 35 | Inventions and Innovations in Preclinical Platforms for Cancer Research. Inventions, 2018, 3, 43. | 1.3 | 10 |
| 36 | An Interfaceâ€“Particle Interaction Approach for Evaluation of the Co-Encapsulation Efficiency of Cells in a Flow-Focusing Droplet Generator. Sensors, 2020, 20, 3774. | 2.1 | 10 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Investigation of viscoelastic focusing of particles and cells in a zigzag microchannel. Electrophoresis, 2021, 42, 2230-2237. | 1.3 | 10 |
| 38 | High-Throughput, Label-Free Isolation of White Blood Cells from Whole Blood Using Parallel Spiral Microchannels with U-Shaped Cross-Section. Biosensors, 2021, 11, 406. | 2.3 | 10 |
| 39 | Enrichment of cancer stem-like cells by controlling oxygen, glucose and fluid shear stress in a microfluidic spheroid culture device. Journal of Science: Advanced Materials and Devices, 2022, 7, 100439. | 1.5 | 10 |
| 40 | Analytical Modeling of Slip Flow in Parallel-plate Microchannels. Micro and Nanosystems, 2013, 5, 245-252. | 0.3 | 8 |
| 41 | Micro/nanofluidic devices for drug delivery. Progress in Molecular Biology and Translational Science, 2022, 187, 9-39. | 0.9 | 8 |
| 42 | Fluid Mechanics of Flow Through Rectangular Hydrophobic Microchannels. , 2011, , . | | 6 |
| 43 | A microfluidic concentration gradient generator for simultaneous delivery of two reagents on a millimeter-sized sample. Journal of Flow Chemistry, 2020, 10, 615-625. | 1.2 | 6 |
| 44 | A Proof-of-Concept Study Using Numerical Simulations of an Acoustic Spheroid-on-a-Chip Platform for Improving 3D Cell Culture. Sensors, 2021, 21, 5529. | 2.1 | 4 |
| 45 | Sessile Liquid Marbles with Embedded Hydrogels as Bioreactors for Threeâ€Dimensional Cell Culture. Advanced Biology, 2021, 5, 2000108. | 1.4 | 4 |
| 46 | Magnetofluidic spreading in circular chambers under a uniform magnetic field. Microfluidics and Nanofluidics, 2020, 24, 1. | 1.0 | 3 |
| 47 | Engineering Micropatterned Surfaces for Controlling the Evaporation Process of Sessile Droplets. Technologies, 2020, 8, 29. | 3.0 | 3 |
| 48 | Corrigendum â€œTemperature control of a cabin in an automobile using thermal modeling and fuzzy controllerâ€•[Applied Energy 97 (2) (2012) 860â€“868]. Applied Energy, 2013, 103, 721. | 5.1 | 2 |
| 49 | A new insight into a thermoplastic microfluidic device aimed at improvement of oxygenation process and avoidance of shear stress during cell culture. Biomedical Microdevices, 2022, 24, 15. | 1.4 | 2 |
| 50 | Intracellular Delivery: A Comprehensive Review on Intracellular Delivery (Adv. Mater. 13/2021). Advanced Materials, 2021, 33, 2170103. | 11.1 | 1 |
| 51 | Electrochemical Detection of Global DNA Methylation Using Biologically Assembled Polymer Beads. Cancers, 2021, 13, 3787. | 1.7 | 1 |
| 52 | Microfluidics: Rapid Softlithography Using 3Dâ€Printed Molds (Adv. Mater. Technol. 10/2019). Advanced Materials Technologies, 2019, 4, 1970056. | 3.0 | 0 |
| 53 | Acknowledgement to Reviewers of Fluids in 2018. Fluids, 2019, 4, 9. | 0.8 | 0 |