Mohammad Said Saidi

List of Publications by Year
in descending order

52 papers	840 citations	516710 16 h-index	526287 27 g-index
52 all docs	52 docs citations	52 times ranked	1241 citing authors

#	Article	IF	Citations
1	Investigation of the different parameters contributing to bubble sticking inside physiological bifurcations. Medical and Biological Engineering and Computing, 2022, 60, 599-618.	2.8	4
2	Design of the micropump and mass-transfer compartment of a microfluidic system for regular nonenzymatic glucose measurement. Biotechnology Reports (Amsterdam, Netherlands), 2022, 34, e00723.	4.4	4
3	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.	3.1	10
4	Fabrication of a microdialysis-based nonenzymatic microfluidic sensor for regular glucose measurement. Sensors and Actuators B: Chemical, 2021, 333, 129569.	7.8	13
5	An integrated microfluidic concentration gradient generator for mechanical stimulation and drug delivery. Journal of Science: Advanced Materials and Devices, 2021, 6, 280-290.	3.1	24
6	Atheroprone sites of coronary artery bifurcation: Effect of heart motion on hemodynamics-dependent monocytes deposition. Computers in Biology and Medicine, 2021, 133, 104411.	7.0	3
7	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.	4.7	10
8	Simple, Cost-Effective, and Continuous 3D Dielectrophoretic Microchip for Concentration and Separation of Bioparticles. Industrial & Engineering Chemistry Research, 2020, 59, 3772-3783.	3.7	31
9	A tool for designing tree-like concentration gradient generators for lab-on-a-chip applications. Chemical Engineering Science, 2020, 212, 115339.	3.8	19
10	An Interface–Particle Interaction Approach for Evaluation of the Co-Encapsulation Efficiency of Cells in a Flow-Focusing Droplet Generator. Sensors, 2020, 20, 3774.	3.8	10
11	A microfluidic concentration gradient generator for simultaneous delivery of two reagents on a millimeter-sized sample. Journal of Flow Chemistry, 2020, 10, 615-625.	1.9	6
12	Endothelial Cells Morphology in Response to Combined WSS and Biaxial CS: Introduction of Effective Strain Ratio. Cellular and Molecular Bioengineering, 2020, 13, 647-657.	2.1	0
13	Three-Dimensional Modeling of Avascular Tumor Growth in Both Static and Dynamic Culture Platforms. Micromachines, 2019, 10, 580.	2.9	17
14	Novel approaches in cancer management with circulating tumor cell clusters. Journal of Science: Advanced Materials and Devices, 2019, 4, 1-18.	3.1	41
15	Numerical simulation of a microfluidic system for regular glucose measurement. , 2019, , .		1
16	A new non-dimensional parameter to obtain the minimum mixing length in tree-like concentration gradient generators. Chemical Engineering Science, 2019, 195, 120-126.	3.8	22
17	Primary stenosis progression versus secondary stenosis formation in the left coronary bifurcation: A mechanical point of view. Biocybernetics and Biomedical Engineering, 2019, 39, 188-198.	5.9	25
18	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.	7.8	175

#	ARTICLE	IF	CITATIONS
19	Challenge in particle delivery to cells in a microfluidic device. Drug Delivery and Translational Research, 2018, 8, 830-842.	5.8	21
20	A high-performance polydimethylsiloxane electrospun membrane for cell culture in lab-on-a-chip. Biomicrofluidics, 2018, 12, 024117.	2.4	19
21	A microfabricated platform for the study of chondrogenesis under different compressive loads. Journal of the Mechanical Behavior of Biomedical Materials, 2018, 78, 404-413.	3.1	9
22	Fully-coupled mathematical modeling of actomyosin-cytosolic two-phase flow in a highly deformable moving Keratocyte cell. Journal of Biomechanics, 2018, 67, 37-45.	2.1	7
23	Prediction of Necrotic Core and Hypoxic Zone of Multicellular Spheroids in a Microbioreactor with a U-Shaped Barrier. Micromachines, 2018, 9, 94.	2.9	52
24	Inventions and Innovations in Preclinical Platforms for Cancer Research. Inventions, 2018, 3, 43.	2.5	10
25	Pulsatile blood flow in total cavopulmonary connection: a comparison between Y-shaped and T-shaped geometry. Medical and Biological Engineering and Computing, 2017, 55, 213-224.	2.8	8
26	A multiscale approach for determining the morphology of endothelial cells at a coronary artery. International Journal for Numerical Methods in Biomedical Engineering, 2017, 33, e2891.	2.1	11
27	Spiral microchannel with stair-like cross section for size-based particle separation. Microfluidics and Nanofluidics, 2017, 21, 1.	2.2	39
28	Fabrication and characterization of low-cost, bead-free, durable and hydrophobic electrospun membrane for 3D cell culture. Biomedical Microdevices, 2017, 19, 74.	2.8	30
29	Efficient batch-mode mixing and flow patterns in a microfluidic centrifugal platform: a numerical and experimental study. Microsystem Technologies, 2017, 23, 2767-2779.	2.0	8
30	Enhancement of surface adsorption-desorption rates in microarrays invoking surface charge heterogeneity. Sensors and Actuators B: Chemical, 2017, 242, 956-964.	7.8	8
31	Numerical Simulation of the Behavior of Toroidal and Spheroidal Multicellular Aggregates in Microfluidic Devices with Microwell and U-Shaped Barrier. Micromachines, 2017, 8, 358.	2.9	21
32	Organ-Tumor-on-a-Chip for Chemosensitivity Assay: A Critical Review. Micromachines, 2016, 7, 130.	2.9	67
33	Urine concentrating mechanism modelling in rat kidney inner medulla. , 2016, , .		0
34	A mechanical model for morphological response of endothelial cells under combined wall shear stress and cyclic stretch loadings. Biomechanics and Modeling in Mechanobiology, 2016, 15, 1229-1243.	2.8	5
35	A Computational Model for Estimation of Mechanical Parameters in Chemotactic Endothelial Cells. Scientia Iranica, 2016, 23, 260-267.	0.4	0
36	Numerical modeling of ureagenesis in a microfluidic channel mimicking a liver lobule. , 2015, , .		1

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37	Two-Phase Acto-Cytosolic Fluid Flow in a Moving Keratocyte: A 2D Continuum Model. Bulletin of Mathematical Biology, 2015, 77, 1813-1832.	1.9	4
38	FSI SIMULATION OF A HEALTHY CORONARY BIFURCATION FOR STUDYING THE MECHANICAL STIMULI OF ENDOTHELIAL CELLS UNDER DIFFERENT PHYSIOLOGICAL CONDITIONS. Journal of Mechanics in Medicine and Biology, 2015, 15, 1550089.	0.7	7
39	Modeling of two-phase flow in porous media with heat generation. International Journal of Multiphase Flow, 2015, 69, 115-127.	3.4	17
40	A New Boundary Model for Simulating Complex and Flexible Wall Bounded Domain in Dissipative Particle Dynamics. Advances in Mathematical Physics, 2014, 2014, 1-6.	0.8	0
41	Analytical Solutions of Actin-Retrograde-Flow in a Circular Stationary Cell: A Mechanical Point of View. Bulletin of Mathematical Biology, 2014, 76, 744-760.	1.9	1
42	Physically based wall boundary condition for dissipative particle dynamics. Microfluidics and Nanofluidics, 2014, 17, 181-198.	2.2	10
43	Modeling of laser thermal and hydrodynamic effects on a dilute suspension of micro-particles in water. Journal of Mechanical Science and Technology, 2014, 28, 1017-1026.	1.5	2
44	Transport and deposition of pharmaceutical particles in three commercial spacer–MDI combinations. Computers in Biology and Medicine, 2014, 54, 145-155.	7.0	16
45	Three-dimensional simulation of urine concentrating mechanism in a functional unit of rat outer medulla. I. Model structure and base case results. Mathematical Biosciences, 2014, 258, 44-56.	1.9	5
46	Electrophoretic velocity of spherical particles in Quemada fluids. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2013, 436, 225-230.	4.7	0
47	Continuous size-based focusing and bifurcating microparticle streams using a negative dielectrophoretic system. Microfluidics and Nanofluidics, 2013, 14, 265-276.	2.2	8
48	Continuum model of actin-myosin flow. , 2013, , .		3
49	Modeling of photoplethysmography signal for quantitative analysis of endothelial cells during reactive hyperemia. , 2012, , .		0
50	A numerical study of the effects of blood rheology and vessel deformability on the hemodynamics of carotid bifurcation. Scientia Iranica, 2012, 19, 119-126.	0.4	21
51	A lagged implicit segregated data reconstruction procedure to treat open boundaries. Journal of Computational Physics, 2010, 229, 5418-5431.	3.8	13
52	Heat Transfer Enhancement in Perturbed Laminar Flow About a Cylinder. Heat Transfer Engineering, 2004, 25, 63-73.	1.9	2