

Sasan Asiaei

List of Publications by Year in descending order

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Version: 2024-02-01

23
papers

362
citations

949033

11
h-index

889612

19
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23
all docs

23
docs citations

23
times ranked

647
citing authors

#	ARTICLE	IF	CITATIONS
1	Surface topography effects on dynamic behavior of water droplet over a micro-structured surface using an improved-VOF based lattice Boltzmann method. <i>Journal of Molecular Liquids</i> , 2022, 350, 118509.	2.3	5
2	Centrifugal isolation of SARS-CoV-2: numerical simulation for purification of hospitals' air. <i>Biomechanics and Modeling in Mechanobiology</i> , 2021, 20, 1809-1817.	1.4	4
3	Frequency dependent multiphase flows on centrifugal microfluidics. <i>Lab on A Chip</i> , 2020, 20, 514-524.	3.1	11
4	Micro-fabrication by wax spraying for rapid smartphone-based quantification of bio-markers. <i>Analytical Biochemistry</i> , 2020, 603, 113777.	1.1	2
5	Simple geometrical modifications for substantial color intensity and detection limit enhancements in lateral-flow immunochromatographic assays. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2019, 1110-1111, 1-8.	1.2	9
6	A nanofluid MHD flow with heat and mass transfers over a sheet by nonlinear boundary conditions: Heat and mass transfers enhancement. <i>Journal of Central South University</i> , 2019, 26, 1205-1217.	1.2	21
7	Demonstration of an efficient, compact and precise pumping method by centrifugal inertia for lab on disk platforms. <i>Journal of Micromechanics and Microengineering</i> , 2019, 29, 075001.	1.5	5
8	Simultaneous reduction of CO and NOx emissions as well as fuel consumption by using water and nano particles in Diesel-Biodiesel blend. <i>Journal of Cleaner Production</i> , 2019, 210, 1164-1170.	4.6	80
9	Thermophoretic isolation of circulating tumor cells, numerical simulation and design of a microfluidic chip. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 137, 831-839.	2.0	8
10	Multi-layered Porous Foam Effects on Heat Transfer and Entropy Generation of Nanofluid Mixed Convection Inside a Two-Sided Lid-Driven Enclosure with Internal Heating. <i>Transport in Porous Media</i> , 2019, 126, 223-247.	1.2	55
11	Sensitivity and colour intensity enhancement in lateral flow immunoassay tests by adjustment of test line position. <i>Clinica Chimica Acta</i> , 2018, 487, 210-215.	0.5	12
12	Micro-lithography on paper, surface process modifications for biomedical performance enhancement. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 555, 389-396.	2.3	11
13	New portable smartphone-based PDMS microfluidic kit for the simultaneous colorimetric detection of arsenic and mercury. <i>RSC Advances</i> , 2018, 8, 27091-27100.	1.7	43
14	Prediction of myocardial infarction by assessing regional cardiac wall in CMR images through active mesh modeling. <i>Computers in Biology and Medicine</i> , 2017, 80, 56-64.	3.9	7
15	The Effect of Geometrical and Fluid Kinematic Parameters of a Microfluidic Platform on the Droplet Generation. , 2017, , .		0
16	Novel Magnetic Nanocomposites Comprising Reduced Graphene Oxide/FeO/Gelatin Utilized in Ultrasensitive Non-Enzymatic Biosensing. <i>International Journal of Electrochemical Science</i> , 2016, 11, 10256-10269.	0.5	31
17	Studying Maximum Plantar Stress per Insole Design Using Foot CT-Scan Images of Hyperelastic Soft Tissues. <i>Applied Bionics and Biomechanics</i> , 2016, 2016, 1-6.	0.5	12
18	Studying the kinetics of thiols' self-assembled monolayer formation in microfluidic channels. <i>Particulate Science and Technology</i> , 2016, 34, 397-406.	1.1	1

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19	Enhancing conjugation rate of antibodies to carboxylates: Numerical modeling of conjugation kinetics in microfluidic channels and characterization of chemical over-exposure in conventional protocols by quartz crystal microbalance. <i>Biomicrofluidics</i> , 2015, 9, 064115.	1.2	13
20	Fast Kinetics of Thiolic Self-Assembled Monolayer Adsorption on Gold: Modeling and Confirmation by Protein Binding. <i>Journal of Physical Chemistry B</i> , 2014, 118, 13697-13703.	1.2	12
21	Fast self-assembly kinetics of alkanethiols on gold nanoparticles: simulation and characterization by localized surface plasmon resonance spectroscopy. <i>Proceedings of SPIE</i> , 2012, , .	0.8	1
22	Effects of Carbon Nanotubes Geometrical Distribution on Electrical Percolation of Nanocomposites: A Comprehensive Approach. <i>Journal of Reinforced Plastics and Composites</i> , 2010, 29, 818-829.	1.6	18
23	Modeling of Biologically Inspired Adhesive Pads Using Monte Carlo Analysis. <i>Journal of Adhesion Science and Technology</i> , 2010, 24, 1207-1220.	1.4	1