Saud A Khashan

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/2754543/publications.pdf

Version: 2024-02-01

40 papers	724 citations	567281 15 h-index	552781 26 g-index
40 all docs	40 docs citations	40 times ranked	798 citing authors

#	Article	IF	Citations
1	A new solar atmospheric water harvesting integrated system using CPV/T â€“ Stirling engine â€“ Absorption cooling cycle and vapor compression refrigeration cycle. International Journal of Energy Research, 2021, 45, 16400-16417.	4.5	18
2	Magnetophoretic separation in microfluidic system. Materials Today: Proceedings, 2021, 47, 1295-1300.	1.8	1
3	Gaseous slip flow affected by inclined low magnetic field using secondâ€order boundary conditions. Heat Transfer, 2020, 49, 909-931.	3.0	2
4	Dielectrophoretic Microfluidic Device for Separating Microparticles Based on Size with Sub-Micron Resolution. Micromachines, 2020, 11, 653.	2.9	5
5	Studying the impact of depth of focus on 3D profile of negative photoresist material: a simulation approach. SN Applied Sciences, 2020, 2, 1.	2.9	0
6	Dielectrophoretic 3Dâ€focusing for onâ€chip flow cytometry. Micro and Nano Letters, 2020, 15, 296-301.	1.3	1
7	CFD Investigation of the Effect of Cerebral Aneurysms Size on Wall Stresses and Strain. , 2019, , .		0
8	Mathematical Model of Microfluidic Devices Employing Dielectrophoresis for 3D-Focusing. , 2019, , .		0
9	Maskless Lithography Using Negative Photoresist Material: Impact of UV Laser Intensity on the Cured Line Width. Lasers in Manufacturing and Materials Processing, 2018, 5, 133-142.	2.2	6
10	A microfluidics device for 3D switching of microparticles using dielectrophoresis. Journal of Electrostatics, 2018, 94, 1-7.	1.9	21
11	Fabrication of microfluidic devices with 3D embedded flow-invasive microelements. Microelectronic Engineering, 2018, 187-188, 27-32.	2.4	4
12	Photocatalytic removal of methylene blue using titania- and silica-coated magnetic nanoparticles. Materials Research Express, 2018, 5, 065518.	1.6	57
13	Thermal efficiency of a direct absorption solar collector using magnetic nanofluids. , 2018, , .		0
14	Microfluidic multi-target sorting by magnetic repulsion. Microfluidics and Nanofluidics, 2018, 22, 1.	2.2	10
15	Cost effective maskless lithography: Direct UV laser writing of microstructures for microfluidics applications. , 2018, , .		2
16	Microfluidics Based Magnetophoresis: A Review. Chemical Record, 2018, 18, 1596-1612.	5.8	100
17	Novel method for synthesis of Fe 3 O 4 @TiO 2 core/shell nanoparticles. Surface and Coatings Technology, 2017, 322, 92-98.	4.8	97
18	Photo-thermal characteristics of water-based Fe₃O₄@SiO₂nanofluid for solar-thermal applications. Materials Research Express, 2017, 4, 055701.	1.6	39

#	Article	IF	Citations
19	Microdevice for continuous flow magnetic separation for bioengineering applications. Journal of Micromechanics and Microengineering, 2017, 27, 055016.	2.6	25
20	Lab-on-chip for liquid biopsy (LoC-LB) based on dielectrophoresis. Talanta, 2017, 164, 608-611.	5.5	33
21	Microfluidic Platforms for Bio-applications. Microsystems and Nanosystems, 2017, , 253-282.	0.1	9
22	Path of microparticles in a microfluidic device employing dielectrophoresis for hyperlayer field-flow fractionation. Microsystem Technologies, 2016, 22, 1721-1732.	2.0	14
23	Tracking Microparticles Subjected to Dielectrophoresis in a Continuous Flow Microdevice. , 2015, , .		0
24	Modeling and simulation of the multiphase flow involving magnetophoresis-based microfluidic systems. Proceedings of SPIE, 2015, , .	0.8	1
25	Trajectory of microparticles actuated with standing surface acoustic waves in microfluidic devices. , 2015, , .		0
26	Trajectory of microscale entities in a microdevice for field-flow fractionation based on dielectrophoresis. Proceedings of SPIE, 2015, , .	0.8	0
27	Modeling the trajectory of microparticles subjected to dielectrophoresis in a microfluidic device for field flow fractionation. Chemical Engineering Science, 2015, 138, 266-280.	3.8	38
28	Microfabrication of multi-layered electrodes for dielectrophoresis-based field flow fractionation. Proceedings of SPIE, 2015, , .	0.8	0
29	Modeling solute transport affected by heterogeneous sorption kinetics using single-rate nonequilibrium approaches. Journal of Contaminant Hydrology, 2014, 157, 73-86.	3.3	15
30	Scalability analysis of magnetic bead separation in a microchannel with an array of soft magnetic elements in a uniform magnetic field. Separation and Purification Technology, 2014, 125, 311-318.	7.9	44
31	Continuous Separation of Cancer Cells From Blood in a Microfluidic Channel Using Dielectrophoresis. , 2014, , .		0
32	Numerical Investigation of Solar Chimney Power Plant in UAE. Springer Proceedings in Energy, 2014, , 513-524.	0.3	1
33	Heat transfer characteristics of multi-walled carbon nanotubes suspension in a developing channel flow. Heat and Mass Transfer, 2013, 49, 1681-1687.	2.1	5
34	Coupled particleâ€“fluid transport and magnetic separation in microfluidic systems with passive magnetic functionality. Journal Physics D: Applied Physics, 2013, 46, 125002.	2.8	34
35	CFD simulation for biomagnetic separation involving dilute suspensions. Canadian Journal of Chemical Engineering, 2012, 90, 1450-1456.	1.7	6
36	Effects of particleâ€“fluid coupling on particle transport and capture in a magnetophoretic microsystem. Microfluidics and Nanofluidics, 2012, 12, 565-580.	2.2	54

#	Article	IF	Citations
37	CFD simulation of the magnetophoretic separation in a microchannel. Journal of Magnetism and Magnetic Materials, 2011, 323, 2960-2967.	2.3	27
38	Numerical simulation of the continuous biomagnetic separation in a two-dimensional channel. International Journal of Multiphase Flow, 2011, 37, 947-955.	3.4	21
39	Numerical simulation of biomagnetic fluid downstream an eccentric stenotic orifice. Physics of Fluids, 2006, 18, 113601.	4.0	34
40	Code Development and Validation of RANS Solvers for Flows Around Bluff Bodies. , 2002, , .		0