

Muhsincan Sesen

List of Publications by Year in descending order

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papers

758
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516710

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23
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33
all docs

33
docs citations

33
times ranked

916
citing authors

#	ARTICLE	IF	CITATIONS
1	Microfluidic on-demand droplet merging using surface acoustic waves. Lab on A Chip, 2014, 14, 3325-3333.	6.0	129
2	Droplet control technologies for microfluidic high throughput screening (HTS). Lab on A Chip, 2017, 17, 2372-2394.	6.0	82
3	Vibrating membrane with discontinuities for rapid and efficient microfluidic mixing. Lab on A Chip, 2015, 15, 4206-4216.	6.0	68
4	Image-Based Single Cell Sorting Automation in Droplet Microfluidics. Scientific Reports, 2020, 10, 8736.	3.3	65
5	Microfluidic plug steering using surface acoustic waves. Lab on A Chip, 2015, 15, 3030-3038.	6.0	55
6	Ferrofluid actuation with varying magnetic fields for micropumping applications. Microfluidics and Nanofluidics, 2012, 13, 683-694.	2.2	40
7	Characterization of adhesive properties of red blood cells using surface acoustic wave induced flows for rapid diagnostics. Applied Physics Letters, 2014, 105, .	3.3	40
8	Surface acoustic wave enabled pipette on a chip. Lab on A Chip, 2017, 17, 438-447.	6.0	40
9	Heat transfer enhancement with actuation of magnetic nanoparticles suspended in a base fluid. Journal of Applied Physics, 2012, 112, 064320.	2.5	24
10	Kidney Stone Erosion by Micro Scale Hydrodynamic Cavitation and Consequent Kidney Stone Treatment. Annals of Biomedical Engineering, 2012, 40, 1895-1902.	2.5	22
11	Compact nanostructure integrated pool boiler for microscale cooling applications. Micro and Nano Letters, 2010, 5, 203.	1.3	21
12	Single line particle focusing using a vibrating bubble. Applied Physics Letters, 2014, 105, .	3.3	20
13	Bubbly Cavitating Flow Generation and Investigation of Its Erosional Nature for Biomedical Applications. IEEE Transactions on Biomedical Engineering, 2011, 58, 1337-1346.	4.2	18
14	Boiling heat transfer enhancement of magnetically actuated nanofluids. Applied Physics Letters, 2013, 102, 163107.	3.3	18
15	Selective droplet splitting using single layer microfluidic valves. Sensors and Actuators B: Chemical, 2019, 292, 233-240.	7.8	18
16	Coalescence of Surfactant-Stabilized Adjacent Droplets Using Surface Acoustic Waves. Analytical Chemistry, 2019, 91, 7538-7545.	6.5	17
17	Hydrodynamic cavitation kills prostate cells and ablates benign prostatic hyperplasia tissue. Experimental Biology and Medicine, 2013, 238, 1242-1250.	2.4	16
18	Submerged jet impingement cooling using nanostructured plates. International Journal of Heat and Mass Transfer, 2013, 59, 414-422.	4.8	16

#	ARTICLE	IF	CITATIONS
19	Thermally-actuated microfluidic membrane valve for point-of-care applications. <i>Microsystems and Nanoengineering</i> , 2021, 7, 48.	7.0	12
20	Comparison of bulk and microfluidic methods to monitor the phase behaviour of nanoparticles during digestion of lipid-based drug formulations using <i>in situ</i> X-ray scattering. <i>Soft Matter</i> , 2019, 15, 9565-9578.	2.7	11
21	Capacitive Sensing for Monitoring of Microfluidic Protocols Using Nanoliter Dispensing and Acoustic Mixing. <i>Analytical Chemistry</i> , 2020, 92, 10725-10732.	6.5	6
22	Reversibility of Functional and Structural Changes of Lysozyme Subjected to Hydrodynamic Flow. <i>Journal of Nanotechnology in Engineering and Medicine</i> , 2012, 3, .	0.8	4
23	Magnetic Nanoparticle Based Nanofluid Actuation With Dynamic Magnetic Fields. , 2011, , .		3
24	A NOVEL MAGNETOMECHANICAL PUMP TO ACTUATE FERROFLUIDS IN MINICHANNELS. , 2011, , .		3
25	A Compact Nanostructure Enhanced Heat Sink With Flow in a Rectangular Channel. , 2010, , .		2
26	Using Nano-mechanics and Surface Acoustic Wave (SAW) for Disease Monitoring and Diagnostics at a Cellular Level in Red Blood Cells. <i>Physics Procedia</i> , 2015, 70, 18-20.	1.2	2
27	Subcooled Flow Boiling Over Nanostructured Plate Integrated Into a Rectangular Channel. , 2013, , .		1
28	A Compact Nanostructure Integrated Pool Boiler for Microscale Cooling Applications. , 2009, , .		1
29	Submerged Jet Impingement Cooling of a Nanostructured Plate. , 2010, , .		0
30	Magnetic Actuation of Nanofluids With Ferromagnetic Particles. , 2010, , .		0
31	Multiphase Submerged Jet Impingement Cooling Utilizing Nanostructured Plates. , 2012, , .		0