

# Chen-Li Sun

## List of Publications by Year in descending order

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Version: 2024-02-01

27  
papers

231  
citations

1163117

8  
h-index

996975

15  
g-index

27  
all docs

27  
docs citations

27  
times ranked

248  
citing authors

#	ARTICLE	IF	CITATIONS
1	Active mixing in diverging microchannels. <i>Microfluidics and Nanofluidics</i> , 2010, 8, 485-495.	2.2	32
2	Numerical characterization of the flow rectification of dynamic microdiffusers. <i>Journal of Micromechanics and Microengineering</i> , 2006, 16, 1331-1339.	2.6	31
3	Measurements of flow-induced birefringence in microfluidics. <i>Biomicrofluidics</i> , 2016, 10, 011903.	2.4	30
4	Effects of the half angle on the flow rectification of a microdiffuser. <i>Journal of Micromechanics and Microengineering</i> , 2007, 17, 2031-2038.	2.6	19
5	On the evaporative spray cooling with a self-rewetting fluid: Chasing the heat. <i>Applied Thermal Engineering</i> , 2018, 132, 196-208.	6.0	17
6	Effective mixing in a microfluidic oscillator using an impinging jet on a concave surface. <i>Microsystem Technologies</i> , 2011, 17, 911-922.	2.0	13
7	Quantitative analysis of microfluidic mixing using microscale schlieren technique. <i>Microfluidics and Nanofluidics</i> , 2013, 15, 253-265.	2.2	12
8	A spherical Leidenfrost droplet with translation and rotation. <i>International Journal of Thermal Sciences</i> , 2018, 129, 254-265.	4.9	10
9	Marangoni effects on the boiling of 2-propanol/water mixtures in a confined space. <i>International Journal of Heat and Mass Transfer</i> , 2004, 47, 5417-5426.	4.8	9
10	Utilizing the inverse Marangoni convection to facilitate extremely-low-flow-rate intermittent spray cooling for large-area systems. <i>Applied Thermal Engineering</i> , 2020, 166, 114725.	6.0	8
11	Flow characterization and mixing performance of weakly-shear-thinning fluid flows in a microfluidic oscillator. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2017, 239, 1-12.	2.4	7
12	Electrorotation of single microalgae cells during lipid accumulation for assessing cellular dielectric properties and total lipid contents. <i>Biosensors and Bioelectronics</i> , 2021, 173, 112772.	10.1	7
13	Performance enhancement of intermittent spray cooling with a self-rewetting fluid for relatively high-temperature applications. <i>International Journal of Heat and Mass Transfer</i> , 2022, 183, 122101.	4.8	7
14	Mapping the Salinity Gradient in a Microfluidic Device with Schlieren Imaging. <i>Sensors</i> , 2015, 15, 11587-11600.	3.8	5
15	Numerical characterization of a microscale solid-oxide fuel cell. <i>Journal of Power Sources</i> , 2008, 185, 363-373.	7.8	4
16	Optimization of a diverging micromixer driven by periodic electroosmotics. <i>Microsystem Technologies</i> , 2012, 18, 1237-1245.	2.0	3
17	Diagnosis of oscillating pressure-driven flow in a microdiffuser using micro-PIV. <i>Experiments in Fluids</i> , 2012, 52, 23-35.	2.4	3
18	Application of Micro-Schlieren Technique to Quantitative Analysis of Mass Transport in a Micromixer. , 2011, , .		2

#	ARTICLE	IF	CITATIONS
19	Microscale schlieren visualization of near-bubble mass transport during boiling of 2-propanol/water mixtures in a square capillary. <i>Experiments in Fluids</i> , 2014, 55, 1.	2.4	2
20	Analyzing Mixing Inhomogeneity in a Microfluidic Device by Microscale Schlieren Technique. <i>Journal of Visualized Experiments</i> , 2015, , e52915.	0.3	2
21	Dielectric Characterisation of Single Microalgae Cell Using Electrorotation Measurements. <i>Proceedings (mdpi)</i> , 2017, 1, 543.	0.2	2
22	Change in rheotactic behavior patterns of dinoflagellates in response to different microfluidic environments. <i>Scientific Reports</i> , 2021, 11, 11105.	3.3	2
23	Effects of Gap Geometry and Gravity on Boiling Around a Constrained Bubble in 2-Propanol/Water Mixtures. <i>Journal of Heat Transfer</i> , 2007, 129, 114-123.	2.1	1
24	On the background design for microscale background-oriented schlieren measurements of microfluidic mixing. <i>Microfluidics and Nanofluidics</i> , 2014, 17, 375-391.	2.2	1
25	An analytical model for flow rectification of a microdiffuser driven by an oscillating source. <i>Microfluidics and Nanofluidics</i> , 2015, 18, 979-993.	2.2	1
26	On the performance assessment of using alcohol/water mixtures in a solar Rankine cycle system with an evacuated tube collector. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	1
27	Out-of-focus effects on microscale schlieren measurements of mass transport in a microfluidic device. <i>Measurement Science and Technology</i> , 2016, 27, 085203.	2.6	0