Ankur Miglani

List of Publications by Year
in descending order

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23 papers	546 citations	687363 13 h-index	642732 23 g-index
23 all docs	23 docs citations	23 times ranked	371 citing authors

#	Article	IF	Citations
1	An experimental investigation of the effect of thermal coupling between parallel microchannels undergoing boiling on the Ledinegg instability-induced flow maldistribution. International Journal of Multiphase Flow, 2021, 139, 103536.	3.4	6
2	Production of colored bi-layered bricks from stone processing wastes: Structural and spectroscopic characterization. Construction and Building Materials, 2021, 278, 122339.	7.2	7
3	Measurement of flow maldistribution induced by the Ledinegg instability during boiling in thermally isolated parallel microchannels. International Journal of Multiphase Flow, 2021, 139, 103644.	3.4	4
4	The Effect of Uneven Heating on the Flow Distribution Between Parallel Microchannels Undergoing Boiling. Journal of Electronic Packaging, Transactions of the ASME, 2021, 143, .	1.8	2
5	The effect of channel diameter on flow freezing in microchannels. International Journal of Heat and Mass Transfer, 2020, 157, 119718.	4.8	2
6	Ice formation modes during flow freezing in a small cylindrical channel. International Journal of Heat and Mass Transfer, 2019, 128, 836-848.	4.8	15
7	Shear-flow rheology and viscoelastic instabilities of ethanol gel fuels. Experimental Thermal and Fluid Science, 2018, 99, 181-189.	2.7	13
8	Rheology of solid-like ethanol fuel for hybrid rockets: Effect of type and concentration of gellants. Fuel, 2017, 209, 96-108.	6.4	22
9	Oscillatory bursting of gel fuel droplets in a reacting environment. Scientific Reports, 2017, 7, 3088.	3.3	13
10	Response Dynamics of Recirculation Structures in Coaxial Nonpremixed Swirl-Stabilized Flames Subjected to Acoustic Forcing. Journal of Thermal Science and Engineering Applications, 2016, 8, .	1.5	2
11	Towards universal buckling dynamics in nanocolloidal sessile droplets: the effect of hydrophilic to superhydrophobic substrates and evaporation modes. Soft Matter, 2016, 12, 4896-4902.	2.7	19
12	Morphological transitions and buckling characteristics in a nanoparticle-laden sessile droplet resting on a heated hydrophobic substrate. Physical Review E, 2016, 93, 042605.	2.1	17
13	Combustion and heat transfer characteristics of nanofluid fuel droplets: A short review. International Journal of Heat and Mass Transfer, 2016, 96, 482-503.	4.8	175
14	Universal buckling kinetics in drying nanoparticle-laden droplets on a hydrophobic substrate. Physical Review E, 2015, 92, 042304.	2.1	19
15	Coupled Mechanisms of Precipitation and Atomization in Burning Nanofluid Fuel Droplets. Scientific Reports, 2015, 5, 15008.	3.3	25
16	Effect of Particle Concentration on Shape Deformation and Secondary Atomization Characteristics of a Burning Nanotitania Dispersion Droplet. Journal of Heat Transfer, 2015, 137, .	2.1	35
17	Sphere to ring morphological transformation in drying nanofluid droplets in a contact-free environment. Soft Matter, 2015, 11, 2268-2278.	2.7	32
18	Insight into instabilities in burning droplets. Physics of Fluids, 2014, 26, .	4.0	54

#	Article	IF	Citations
19	Transition in vortex breakdown modes in a coaxial isothermal unconfined swirling jet. Physics of Fluids, 2014, 26, .	4.0	24
20	Suppression of instabilities in burning droplets using preferential acoustic perturbations. Combustion and Flame, 2014, 161, 3181-3190.	5.2	26
21	System Level Analysis of Acoustically Forced Nonpremixed Swirling Flames. Journal of Thermal Science and Engineering Applications, 2014, 6, .	1.5	3
22	Nucleation dynamics and pool boiling characteristics of high pressure refrigerant using thermochromic liquid crystals. International Journal of Heat and Mass Transfer, 2013, 60, 188-200.	4.8	12
23	Transition and acoustic response of recirculation structures in an unconfined co-axial isothermal swirling flow. Physics of Fluids, 2013, 25, .	4.0	19