Anirudh Singh Rana

List of Publications by Year
in descending order

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13	201	1040056	1125743
papers	citations	9 h-index	13 g-index

13	13	13	103
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Thermodynamically admissible boundary conditions for the regularized 13 moment equations. Physics of Fluids, 2016, 28, .	4.0	38
2	A numerical study of the heat transfer through a rarefied gas confined in a microcavity. Continuum Mechanics and Thermodynamics, 2015, 27, 433-446.	2.2	36
3	Evaporation boundary conditions for the R13 equations of rarefied gas dynamics. Physics of Fluids, 2017, 29, .	4.0	25
4	Thermal stress vs. thermal transpiration: A competition in thermally driven cavity flows. Physics of Fluids, 2015, 27, .	4.0	22
5	Fundamental solutions to the regularised 13-moment equations: efficient computation of three-dimensional kinetic effects. Journal of Fluid Mechanics, 2017, 833, .	3.4	14
6	Evaporation-driven vapour microflows: analytical solutions from moment methods. Journal of Fluid Mechanics, 2018, 841, 962-988.	3.4	13
7	Coupled constitutive relations: a second law based higher-order closure for hydrodynamics. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2018, 474, 20180323.	2.1	13
8	Evaporation Boundary Conditions for the Linear R13 Equations Based on the Onsager Theory. Entropy, 2018, 20, 680.	2.2	12
9	Efficient simulation of non-classical liquidâ€“vapour phase-transition flows: a method of fundamental solutions. Journal of Fluid Mechanics, 2021, 919, .	3.4	10
10	Efficient moment method for modeling nanoporous evaporation. Physical Review Fluids, 2022, 7, .	2.5	7
11	-theorem and boundary conditions for the linear R26 equations: application to flow past an evaporating droplet. Journal of Fluid Mechanics, 2021, 924, .	3.4	6
12	A review of rarefied gas flow in irregular micro/nanochannels. Journal of Micromechanics and Microengineering, 2021, 31, 113002.	2.6	4
13	A finite difference scheme for non-Cartesian mesh: Applications to rarefied gas flows. Physics of Fluids, 2022, 34, 072002.	4.0	1