

Anirudh Singh Rana

List of Publications by Year in descending order

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Version: 2024-02-01

13
papers

201
citations

1039406

9
h-index

1125271

13
g-index

13
all docs

13
docs citations

13
times ranked

103
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermodynamically admissible boundary conditions for the regularized 13 moment equations. <i>Physics of Fluids</i> , 2016, 28, .	1.6	38
2	A numerical study of the heat transfer through a rarefied gas confined in a microcavity. <i>Continuum Mechanics and Thermodynamics</i> , 2015, 27, 433-446.	1.4	36
3	Evaporation boundary conditions for the R13 equations of rarefied gas dynamics. <i>Physics of Fluids</i> , 2017, 29, .	1.6	25
4	Thermal stress vs. thermal transpiration: A competition in thermally driven cavity flows. <i>Physics of Fluids</i> , 2015, 27, .	1.6	22
5	Fundamental solutions to the regularised 13-moment equations: efficient computation of three-dimensional kinetic effects. <i>Journal of Fluid Mechanics</i> , 2017, 833, .	1.4	14
6	Evaporation-driven vapour microflows: analytical solutions from moment methods. <i>Journal of Fluid Mechanics</i> , 2018, 841, 962-988.	1.4	13
7	Coupled constitutive relations: a second law based higher-order closure for hydrodynamics. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2018, 474, 20180323.	1.0	13
8	Evaporation Boundary Conditions for the Linear R13 Equations Based on the Onsager Theory. <i>Entropy</i> , 2018, 20, 680.	1.1	12
9	Efficient simulation of non-classical liquid-vapour phase-transition flows: a method of fundamental solutions. <i>Journal of Fluid Mechanics</i> , 2021, 919, .	1.4	10
10	Efficient moment method for modeling nanoporous evaporation. <i>Physical Review Fluids</i> , 2022, 7, .	1.0	7
11	-theorem and boundary conditions for the linear R26 equations: application to flow past an evaporating droplet. <i>Journal of Fluid Mechanics</i> , 2021, 924, .	1.4	6
12	A review of rarefied gas flow in irregular micro/nanochannels. <i>Journal of Micromechanics and Microengineering</i> , 2021, 31, 113002.	1.5	4
13	A finite difference scheme for non-Cartesian mesh: Applications to rarefied gas flows. <i>Physics of Fluids</i> , 2022, 34, 072002.	1.6	1