

Nishanth Dongari

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

667
citations

759233

12
h-index

642732

23
g-index

26
all docs

26
docs citations

26
times ranked

490
citing authors

#	ARTICLE	IF	CITATIONS
1	Analytical solution of gaseous slip flow in long microchannels. International Journal of Heat and Mass Transfer, 2007, 50, 3411-3421.	4.8	147
2	Pressure-driven diffusive gas flows in micro-channels: from the Knudsen to the continuum regimes. Microfluidics and Nanofluidics, 2009, 6, 679-692.	2.2	104
3	Modeling of Knudsen Layer Effects in Micro/Nanoscale Gas Flows. Journal of Fluids Engineering, Transactions of the ASME, 2011, 133, .	1.5	69
4	Molecular free path distribution in rarefied gases. Journal Physics D: Applied Physics, 2011, 44, 125502.	2.8	51
5	Predicting microscale gas flows and rarefaction effects through extended Navier-Stokes-Fourier equations from phoretic transport considerations. Microfluidics and Nanofluidics, 2010, 9, 831-846.	2.2	48
6	Dynamics of Nanoscale Droplets on Moving Surfaces. Langmuir, 2013, 29, 6936-6943.	3.5	46
7	Modeling of Navier-Stokes equations for high Knudsen number gas flows. International Journal of Heat and Mass Transfer, 2012, 55, 4352-4358.	4.8	38
8	The effect of Knudsen layers on rarefied cylindrical Couette gas flows. Microfluidics and Nanofluidics, 2013, 14, 31-43.	2.2	25
9	Effects of curvature on rarefied gas flows between rotating concentric cylinders. Physics of Fluids, 2013, 25, .	4.0	24
10	Analytical solution of plane Poiseuille flow within Burnett hydrodynamics. Microfluidics and Nanofluidics, 2014, 16, 403-412.	2.2	24
11	Extended Navier-Stokes Equations and Treatments of Micro-Channel Gas Flows. Journal of Fluid Science and Technology, 2009, 4, 454-467.	0.6	23
12	Breakdown parameter for kinetic modeling of multiscale gas flows. Physical Review E, 2014, 89, 063305.	2.1	22
13	Modeling of Knudsen Layer Effects in the Micro-Scale Backward-Facing Step in the Slip Flow Regime. Micromachines, 2019, 10, 118.	2.9	9
14	Effect of Knudsen Layer on the heat transfer in hypersonic rarefied gas flows. International Journal of Thermal Sciences, 2019, 142, 134-141.	4.9	8
15	Implementation of Knudsen Layer Phenomena in Rarefied High-Speed Gas Flows. Journal of Aerospace Engineering, 2019, 32, .	1.4	5
16	Liquid slip/stick over hydrophobic/hydrophilic surfaces and their implications in coating processes. Chemical Engineering and Processing: Process Intensification, 2011, 50, 450-453.	3.6	3
17	Isothermal micro-channel gas flow using a hydrodynamic model with dissipative mass flux. , 2011, , .		3
18	Behaviour of microscale gas flows based on a power-law free path distribution function. , 2011, , .		3

#	ARTICLE	IF	CITATIONS
19	Molecular dynamics simulations of high speed rarefied gas flows. AIP Conference Proceedings, 2012, , .	0.4	3
20	Comprehensive Evaluation of a New Type of Smoluchowski Temperature Jump Condition. AIAA Journal, 2018, 56, 4621-4625.	2.6	3
21	Numerical investigation of a chemically reacting and rarefied hypersonic flow field. Shock Waves, 2019, 29, 857-871.	1.9	3
22	Rarefaction effects in gas flows over curved surfaces. AIP Conference Proceedings, 2012, , .	0.4	2
23	The effect of Knudsen layer on rarefied hypersonic gas flows. AIP Conference Proceedings, 2019, , .	0.4	1
24	Modeling of a reaction control jet interacting with high-speed cross-flow in slip flow regime. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2019, 233, 5029-5044.	1.3	1
25	Numerical modeling of Knudsen layer effects in high-speed microscale gas flows. AIP Conference Proceedings, 2019, , .	0.4	0