Artem N Yakunchikov

List of Publications by Year
in descending order

31	233	932766 10	1058022 14
papers	citations	h-index	g-index

31	31	31	113
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Heat transfer in a rarefied gas between profiled surfaces moving relative to each other. International Journal of Heat and Mass Transfer, 2022, 184, 122339.	2.5	2
2	Aeroseparation of gas mixture during supersonic outflow in vacuumed reservoir with skimmer. Vacuum, 2022, 199, 110959.	1.6	7
3	A detailed multiscale study of rotationalâ€“translational relaxation process of diatomic molecules. Physics of Fluids, 2021, 33, .	1.6	11
4	Separation of a binary gas mixture outflowing into vacuum through a micronozzle. Physics of Fluids, 2021, 33, .	1.6	8
5	Potential energy surface of interaction of two diatomic molecules for air flows simulation at intermediate temperatures. Chemical Physics, 2020, 536, 110850.	0.9	7
6	Rotational relaxation model for nitrogen and its application in free jet expansion problem. Physics of Fluids, 2020, 32, .	1.6	10
7	An atomic-level study of the N2â€“N2 collision process at temperatures up to 2000 K. Physics of Fluids, 2020, 32, 056109.	1.6	3
8	Rarefied gas flows in structures with high-frequency oscillating elements. AIP Conference Proceedings, 2019, , .	0.3	0
9	Gas separation effect induced by filaments with different temperatures. AIP Conference Proceedings, 2019, , .	0.3	2
10	A new principle of separation of gas mixtures in non-stationary transitional flows. Acta Astronautica, 2019, 163, 120-125.	1.7	8
11	Numerical investigation of gas separation in the system of filaments with different temperatures. International Journal of Heat and Mass Transfer, 2019, 138, 144-151.	2.5	19
12	Application of event-driven molecular dynamics approach to rarefied gas dynamics problems. Computers and Fluids, 2018, 170, 121-127.	1.3	20
13	Free-Molecular Gas Flow in a Channel with Curving Boundary. Fluid Dynamics, 2018, 53, 417-427.	0.2	0
14	Multiscale modeling of a gas separation device based on effect of thermal transpiration in the membrane. Separation and Purification Technology, 2017, 180, 58-68.	3.9	17
15	Free-molecular gas flow through the high-frequency oscillating membrane. Journal of Physics: Conference Series, 2016, 681, 012034.	0.3	0
16	Separation of gas mixtures in free molecular flow through a vibrating membrane. Moscow University Mechanics Bulletin, 2015, 70, 126-129.	0.0	1
17	Free-molecular gas flow through the oscillating membrane. Microfluidics and Nanofluidics, 2015, 18, 1039-1043.	1.0	10
18	Study of gas separation by the means of high-frequency membrane oscillations. Acta Astronautica, 2015, 116, 282-285.	1.7	13

#	Article	IF	Citations
19	Free-molecular gas flow through the high-frequency oscillating membrane. , 2014, , .		0
20	Free-molecular gas flow through an oscillating membrane. Fluid Dynamics, 2014, 49, 524-529.	0.2	4
21	Analysis of scattering models on the basis of the results of trajectory calculations. Fluid Dynamics, 2012, 47, 628-635.	0.2	3
22	Analysis of gas-surface scattering models based on computational molecular dynamics. Chemical Physics Letters, 2012, 554, 225-230.	1.2	26
23	Tangential momentum and thermal accommodation coefficients for hydrogen molecules on graphite surface. Acta Astronautica, 2011, 69, 744-746.	1.7	15
24	Simulation of hydrogen adsorption in carbon nanotube arrays. Acta Astronautica, 2011, 68, 681-685.	1.7	10
25	Accommodation Coefficients for Hydrogen Molecules on Graphite Surface. , 2011, , .		2
26	Accommodation coefficients for molecular hydrogen on a graphite surface. Fluid Dynamics, 2010, 45, 975-981.	0.2	12
27	Simulation of hydrogen adsorption in carbon nanotubes. Fluid Dynamics, 2009, 44, 475-479.	0.2	5
28	Analysis of hydrogen adsorption by carbon nanotube arrays. Fluid Dynamics, 2009, 44, 931-933.	0.2	2
29	Simulation of interaction between a rarefied gas jet and an obstacle by the methods of molecular dynamics. Moscow University Mechanics Bulletin, 2008, 63, 44-46.	0.0	4
30	A study of flow and heat transfer in micro- and nanochannels by the methods of molecular dynamics. Moscow University Mechanics Bulletin, 2008, 63, 129-132.	0.0	1
31	Dynamic Monte Carlo simulation of surface recombination. Moscow University Mechanics Bulletin, 2007, 62, 53-58.	0.0	11