

Vladimir M Zhdanov

List of Publications by Citations

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54
papers

335
citations

10
h-index

15
g-index

59
ext. papers

372
ext. citations

2.3
avg, IF

3.6
L-index

#	Paper	IF	Citations
54	Non-equilibrium thermodynamics and kinetic theory of rarefied gases. <i>Physics-Uspexhi</i> , 1998 , 41, 349-378.	8.8	32
53	Asymmetric gas mixture transport in composite membranes. <i>Advances in Colloid and Interface Science</i> , 2011 , 168, 223-46	14.3	29
52	Non-equilibrium thermodynamics and kinetic theory of gas mixtures in the presence of interfaces. <i>Advances in Colloid and Interface Science</i> , 2002 , 98, 121-215	14.3	29
51	Transport Processes in Multicomponent Plasma. <i>Plasma Physics and Controlled Fusion</i> , 2002 , 44, 2283-2283		28
50	Flow and diffusion of gases in capillaries and porous media. <i>Advances in Colloid and Interface Science</i> , 1996 , 66, 1-21	14.3	22
49	The moment method and rarefied gas flow in channels. General relations. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1992 , 184, 169-186	3.3	14
48	Moment method and the rarefied gas flow in channels. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1993 , 199, 291-298	3.3	14
47	Kinetic Phenomena in the Diffusion of Gases in Capillaries and Porous Bodies. <i>Colloid Journal</i> , 2002 , 64, 1-24	1.1	12
46	The use of the moment method to derive the gas and plasma transport equations with transport coefficients in higher-order approximations. <i>Prikladnaya Matematika I Mekhanika</i> , 2003 , 67, 365-388		12
45	The method of moments and the nonequilibrium thermodynamics of rarefied gases. <i>Journal of Experimental and Theoretical Physics</i> , 1998 , 86, 1141-1148	1	10
44	The effect of gas surface diffusion on the asymmetric permeability of two-layer porous membranes. <i>Colloid Journal</i> , 2012 , 74, 717-720	1.1	9
43	A phenomenological and kinetic description of diffusion and heat transport in multicomponent gas mixtures and plasma. <i>Prikladnaya Matematika I Mekhanika</i> , 2007 , 71, 718-736		9
42	On a kinetic justification of the generalized nonequilibrium thermodynamics of multicomponent systems. <i>Journal of Experimental and Theoretical Physics</i> , 2002 , 95, 682-696	1	9
41	Effect of Surface Forces on the Gas Flow in Nanosized Capillaries. <i>Colloid Journal</i> , 2003 , 65, 598-601	1.1	9
40	Kinetic phenomena in the gas mixture flow through nanodimensional capillaries: The effect of surface forces. <i>Technical Physics</i> , 2006 , 51, 436-443	0.5	8
39	Nonisothermic flow of gas mixture in a channel at intermediate Knudsen numbers. <i>Prikladnaya Matematika I Mekhanika</i> , 1981 , 45, 801-808		7
38	Kinetic theory of transport processes in partially ionized reactive plasma, II: Electron transport properties. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2016 , 461, 310-324	3.3	6

37	Kinetic theory of transport processes in partially ionized reactive plasma, I: General transport equations. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2016 , 446, 35-53	3.3	5
36	On the thermal force acting on dust grain in fully ionized plasma. <i>Physics of Plasmas</i> , 2011 , 18, 033702	2.1	5
35	On the gas-separation properties of two-layer porous membranes. <i>Colloid Journal</i> , 2010 , 72, 633-639	1.1	5
34	Diffusion and heat transfer in a multicomponent completely ionized plasma. <i>Journal of Applied Mechanics and Technical Physics</i> , 1981 , 21, 453-461	0.6	5
33	Slip and barodiffusion phenomena in slow flows of a gas mixture. <i>Physical Review E</i> , 2017 , 95, 033106	2.4	4
32	On the separation factor of binary gaseous mixtures in two-layer nanoporous membranes. <i>Colloid Journal</i> , 2014 , 76, 76-84	1.1	4
31	Gas mixture flow in a cylindrical channel at intermediate knudsen numbers. <i>Journal of Engineering Physics</i> , 1983 , 45, 998-1003		4
30	Diffusion slip and barodiffusion of a gaseous mixture in plane and cylindrical channels. <i>Journal of Applied Mechanics and Technical Physics</i> , 1979 , 19, 656-665	0.6	4
29	Baro-and thermodiffusion of a gas mixture in a capillary. <i>Journal of Applied Mechanics and Technical Physics</i> , 1982 , 23, 201-204	0.6	4
28	Barodiffusion in Slow Flows of a Gas Mixture. <i>Technical Physics</i> , 2019 , 64, 596-605	0.5	3
27	Nonisothermal flow of a rarefied gas in a circular cylindrical channel. <i>Journal of Engineering Physics</i> , 1983 , 44, 524-529		3
26	GAS FLOW AND DIFFUSION IN NANO-SIZED CAPILLARIES AND POROUS BODIES. <i>International Journal of Nanomechanics Science and Technology</i> , 2010 , 1, 49-97		3
25	Equations and improved coefficients for parallel transport in multicomponent collisional plasmas: Method and application for tokamak modeling. <i>Physics of Plasmas</i> , 2021 , 28, 062308	2.1	3
24	Gas mixture flow, diffusion, and heat transfer in a long tube at moderately small Knudsen numbers. <i>Physics of Fluids</i> , 2021 , 33, 012106	4.4	3
23	Boundary slip phenomena in multicomponent gas mixtures. <i>Physics of Fluids</i> , 2019 , 31, 062105	4.4	2
22	Separation of a Gaseous Mixture in Nanosize Channels. The Role of Surface Diffusion. <i>Journal of Engineering Physics and Thermophysics</i> , 2013 , 86, 356-362	0.6	2
21	Influence of resonant charge exchange on the viscosity of partially ionized plasma in a magnetic field. <i>Plasma Physics Reports</i> , 2013 , 39, 976-985	1.2	2
20	Nonisothermal flow of a rarefied multiatomic gas in a channel. <i>Journal of Applied Mechanics and Technical Physics</i> , 1985 , 26, 333-338	0.6	2

19	Transfer equations in chemically reacting inhomogeneous gases consideration of internal degrees of freedom. <i>Fluid Dynamics</i> , 1976 , 9, 603-609	0.7	2
18	GAS FLOW AND DIFFUSION IN NANO-SIZED CAPILLARIES AND POROUS BODIES. <i>International Journal of Nanomechanics Science and Technology</i> , 2010 , 1, 99-125		2
17	Dusty-gas model. Allowance for surface forces. <i>Colloid Journal</i> , 2016 , 78, 363-370	1.1	2
16	Nonequilibrium thermodynamics of transport processes on membrane surfaces. <i>Colloid Journal</i> , 2016 , 78, 652-657	1.1	2
15	Entropy production on sorbing medium surfaces. <i>Colloid Journal</i> , 2015 , 77, 500-506	1.1	1
14	Free-Molecular Gas Flow in a Narrow (Nanosize) Channel. <i>Journal of Engineering Physics and Thermophysics</i> , 2014 , 87, 802-814	0.6	1
13	Electron Transport Coefficients in Molecular and Atomic Plasmas with Account for Inelastic Collisions. <i>Physics Procedia</i> , 2015 , 71, 110-115		1
12	Effect of Surface Forces on the Gas Flow in Nanosize Capillaries. <i>AIP Conference Proceedings</i> , 2005 ,	0	1
11	Kinetic theory of recondensation in a binary gas mixture with arbitrary Knudsen numbers. <i>Fluid Dynamics</i> , 1976 , 10, 664-668	0.7	1
10	Effect of the orientation of a bilayer catalytic membrane on the effective conversion. <i>Theoretical Foundations of Chemical Engineering</i> , 2015 , 49, 10-20	0.9	
9	Gas mixture flow in nanoporous media in the presence of surface forces. The dusty-gas model. <i>Colloid Journal</i> , 2017 , 79, 116-125	1.1	
8	In memory of Vladimir Markovich Eleonskii. <i>Physics-Uspexhi</i> , 2003 , 46, 443-444	2.8	
7	The Effect of Surface Forces on the Thermal Slip of a Simple Gas. <i>Colloid Journal</i> , 2004 , 66, 333-338	1.1	
6	Study of the operation of a gas-liquid atomizer with a porous mixing element. <i>Journal of Engineering Physics and Thermophysics</i> , 2000 , 73, 465-469	0.6	
5	Nonisothermal flow of a polyatomic gas in a channel and the thermomolecular pressure difference effect. <i>Journal of Applied Mechanics and Technical Physics</i> , 1988 , 28, 668-674	0.6	
4	Positron annihilation in vitreous As-Se and As-Sn-Se systems. <i>Soviet Physics Journal (English Translation of Izvestiia Vysshykh Uchebnykh Zavedenii, Fizika)</i> , 1975 , 18, 716-717		
3	Transport equations for chemical reactions in an inhomogeneous gas phase. <i>Fluid Dynamics</i> , 1972 , 7, 473-483	0.7	
2	Electrical conductivity of a partially ionized gas mixture in a magnetic field. <i>Journal of Applied Mechanics and Technical Physics</i> , 1965 , 6, 41-43	0.6	

- 1 Separation of a Gas Mixture in Nanosize Porous Membranes. Effect of Adsorption and Surface Diffusion. *Journal of Engineering Physics and Thermophysics*, **2021**, 94, 623-632 0.6