Alexey A Morozov

List of Publications by Year
in descending order

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29 papers	240 citations	1040056 9 h-index	1058476 14 g-index
29 all docs	29 docs citations	29 times ranked	104 citing authors

#	Article	IF	Citations
1	Pulsed laser ablation of binary compounds: effect of time delay in component evaporation on ablation plume expansion. Journal Physics D: Applied Physics, 2021, 54, 175203.	2.8	14
2	Numerical simulation of pulsed planar evaporation into background gas based on direct Monte Carlo simulation and solution of the BGK model kinetic equation. Journal of Physics: Conference Series, 2021, 2119, 012116.	0.4	1
3	Theoretical determination of the effective duration of evaporation under nanosecond laser ablation. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	2.3	5
4	Effect of temporal evolution of the evaporation surface temperature on the plume expansion under pulsed laser ablation. Journal of Physics: Conference Series, 2020, 1677, 012143.	0.4	4
5	On different kinetic approaches for computing planar gas expansion under pulsed evaporation into vacuum. Physics of Fluids, 2020, 32, .	4.0	11
6	Effect of pressure on the hydrogen dissociation degree in a hot tube. Journal of Physics: Conference Series, 2020, 1677, 012142.	0.4	0
7	THERMAL MODEL-BASED DETERMINATION OF DISSOCIATION DEGREE OF HYDROGEN FLOWING IN A HOT TUBE. Interfacial Phenomena and Heat Transfer, 2019, 7, 139-149.	0.8	5
8	Dynamics of gas cloud expansion under pulsed laser evaporation into vacuum. Journal of Physics: Conference Series, 2018, 1105, 012116.	0.4	6
9	Analytical Model for Determining The Effective Size of an Evaporation Region in Pulsed Laser Ablation. Journal of Applied Mechanics and Technical Physics, 2018, 59, 834-841.	0.5	4
10	Numerical analysis of time-of-flight distributions of neutral particles for pulsed laser ablation of binary substances into vacuum. Applied Physics A: Materials Science and Processing, 2017, 123, 1.	2.3	9
11	DSMC study of hydrogen and methane flows in a hot tube. AIP Conference Proceedings, 2016, , .	0.4	2
12	Gas-dynamic acceleration of laser-ablation plumes: Hyperthermal particle energies under thermal vaporization. Applied Physics Letters, 2015, 106, .	3.3	23
13	Analytical formula for interpretation of time-of-flight distributions for neutral particles under pulsed laser evaporation in vacuum. Journal Physics D: Applied Physics, 2015, 48, 195501.	2.8	17
14	Analysis of time-of-flight distributions under pulsed laser ablation in vacuum based on the DSMC calculations. Applied Physics A: Materials Science and Processing, 2013, 111, 1107-1112.	2.3	16
15	An analytical continuum-based model of time-of-flight distributions for pulsed laser ablation. Applied Physics A: Materials Science and Processing, 2013, 110, 691-696.	2.3	4
16	Interpretation of time-of-flight distributions for neutral particles under pulsed laser evaporation using direct Monte Carlo simulation. Journal of Chemical Physics, 2013, 139, 234706.	3.0	6
17	A point source analytical model of inverse pulsed laser deposition. Applied Physics A: Materials Science and Processing, 2008, 93, 691-696.	2.3	4
18	Analytical model for polyatomic gas expansion under pulsed evaporation. Physics of Fluids, 2008, 20, .	4.0	5

#	Article	IF	Citations
19	Test particle Monte Carlo study of backward deposition during evaporation into a background gas. Journal Physics D: Applied Physics, 2008, 41, 015303.	2.8	10
20	Dynamics of pulsed expansion of polyatomic gas cloud: Internal-translational energy transfer contribution. Physics of Fluids, 2007, 19, .	4.0	12
21	Back flux at polyatomic gas expansion for pulsed laser evaporation. Applied Surface Science, 2006, 252, 2978-2988.	6.1	11
22	Back Flux for Pulsed Laser Evaporation into Vacuum. AIP Conference Proceedings, 2005, , .	0.4	0
23	Evolution of the back flow in the case of pulsed evaporation into vacuum. Doklady Physics, 2004, 49, 134-137.	0.7	6
24	Thermal model of pulsed laser ablation: back flux contribution. Applied Physics A: Materials Science and Processing, 2004, 79, 997-999.	2.3	39
25	The accommodation of the translational and rotational energy of a gas in a Knudsen flow past a thin wire. Journal of Experimental and Theoretical Physics, 2003, 97, 738-744.	0.9	5
26	Determination of accommodation coefficients of translational and internal energy using a thin wire in a free-molecular flow. Review of Scientific Instruments, 2003, 74, 1103-1106.	1.3	11
27	Using a Thin Wire in a Free-Molecular Flow for Determination of Accommodation Coefficients of Translational and Internal Energy. AIP Conference Proceedings, 2003, , .	0.4	3
28	Relaxation of a Lowâ€Intensity Atomic Beam in a Quiescent Gas. Journal of Applied Mechanics and Technical Physics, 2002, 43, 641-648.	0.5	6
29	Shock effects accompanying degradation of a molecular beam. Technical Physics Letters, 1997, 23, 663-664.	0.7	1