Dmitry Minakov

List of Publications by Year
in descending order

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30 papers	363 citations	840585 11 h-index	794469 19 g-index
30 all docs	30 docs citations	30 times ranked	245 citing authors

#	Article	IF	Citations
1	ÐšÐ'ÐÐ—Ð˜Ð—ÐÐÐ¢ÐÐžÐŸÐ˜Ð§Ð•Ð¡Ð¡Ð¡Ð• Ð¡Ð–ÐÐ¢Ð˜Ð• ÐÐ•Ð˜Ð”Ð•ÐÐ›Ð¬ÐÐ—ÐœÐ« Ð”Ð•Ð™ÐÐ¢Ð•Ð›Ð¬Ð˜ Ð•Ð		
2	Ab initio study of MgO under pressure using quasi-harmonic approximation. Journal of Physics: Conference Series, 2021, 1787, 012004.	0.3	0
3	Thermophysical properties of liquid molybdenum in the near-critical region using quantum molecular dynamics. Physical Review B, 2021, 103, .	1.1	12
4	Quasi-Isentropic Compression of a Nonideal Plasma of Deuterium and its Mixture with Helium at Pressures up to 250 GPa. Journal of Experimental and Theoretical Physics, 2021, 132, 985-998.	0.2	7
5	Equilibrium properties of warm dense deuterium calculated by the wave packet molecular dynamics and density functional theory method. Physical Review E, 2021, 104, 045304.	0.8	2
6	Compressibility of Nonideal Deuterium and Helium Plasmas up to 20 TPa. Journal of Experimental and Theoretical Physics, 2021, 133, 630-648.	0.2	7
7	Interpretation of experiments on shock compression and isentropic expansion of uranium by quantum molecular dynamics simulations. Journal of Physics: Conference Series, 2020, 1556, 012043.	0.3	0
8	The wide-range model of shell effects in hot plasma with semiclassical approximation for bound electrons. Journal of Physics: Conference Series, 2020, 1556, 012044.	0.3	0
9	Interpretation of pulse-heating experiments for rhenium by quantum molecular dynamics. High Temperatures - High Pressures, 2020, 49, 211-219.	0.3	4
10	Heat of fusion of rhenium from first-principle simulations and the Richardsâ€“Tammann relation. Journal of Physics: Conference Series, 2019, 1385, 012027.	0.3	0
11	Investigation of the evolution of chemical bonds in the NiAl system using quantum and classical molecular dynamics. Vestnik ObÊºedinennogo Instituta Vysokih Temperatur, 2019, 2, 36-40.	0.0	0
12	Influence of shell effects on thermodynamic properties of matter at high pressures. Journal of Physics: Conference Series, 2018, 946, 012083.	0.3	1
13	Consistent interpretation of experimental data for expanded liquid tungsten near the liquid-gas coexistence curve. Physical Review B, 2018, 97, .	1.1	33
14	Quantum molecular dynamics simulation of structural and thermodynamic properties of NiAl. Journal of Physics: Conference Series, 2018, 946, 012090.	0.3	0
15	Ab initio simulation of liquid Mo and W near the liquidâ€“gas coexistence curve. Journal of Physics: Conference Series, 2018, 946, 012093.	0.3	5
16	Ab initio inspection of thermophysical experiments for molybdenum near melting. AIP Advances, 2018, 8, 125012.	0.6	18
17	The IVTANTHERMO-Online database for thermodynamic properties of individual substances with web interface. Journal of Physics: Conference Series, 2018, 946, 012120.	0.3	23
18	Reconstruction of release isentropes based on first-principle simulations. Journal of Physics: Conference Series, 2018, 946, 012089.	0.3	4

#	Article	IF	Citations
19	Investigation of the equation of state and self-diffusion coefficient approximations for soft spheres system. Vestnik ObÊºedinennogo Instituta Vysokih Temperatur, 2018, 1, 69-73.	0.0	0
20	First-principle analysis of anomalies of thermodynamic properties of liquid sodium near the melting curve at two-fold compression. Vestnik ObÊºedinennogo Instituta Vysokih Temperatur, 2018, 1, 47-50.	0.0	0
21	Atomistic simulations of the equation of state and hybridization of liquid carbon at a temperature of 6000 K in the pressure range of 1â€“25 GPa. Journal of Chemical Physics, 2017, 147, 214302.	1.2	16
22	Vibrational spectrum and entropy in simulation of melting. Computational Materials Science, 2017, 127, 42-47.	1.4	15
23	Region of validity of the Thomasâ€“Fermi model with quantum, exchange and shell corrections. Journal of Physics: Conference Series, 2016, 774, 012006.	0.3	1
24	Region of validity of the Thomasâ€“Fermi model with corrections. Physics of Plasmas, 2016, 23, .	0.7	17
25	Thermodynamic properties of LiD under compression with different pseudopotentials for lithium. Computational Materials Science, 2016, 114, 128-134.	1.4	24
26	Melting curves of metals with excited electrons in the quasiharmonic approximation. Physical Review B, 2015, 92, .	1.1	58
27	Isentropic expansion of copper plasma in Mbar pressure range at â€œLuchâ€•laser facility. Journal of Applied Physics, 2014, 115, 033506.	1.1	5
28	Quantum molecular dynamics simulation of shock-wave experiments in aluminum. Journal of Applied Physics, 2014, 115, .	1.1	68
29	First-principle simulation of shock-wave experiments for aluminum. AIP Conference Proceedings, 2012, , .	0.3	2
30	Pseudopotential and full-electron DFT calculations of thermodynamic properties of electrons in metals and semiempirical equations of state. Journal of Physics Condensed Matter, 2010, 22, 505501.	0.7	40