Valentin A Levashov

List of Publications by Year
in descending order

25	308	1040056 9	888059 17
papers	citations	h-index	g-index

25	25	25	261
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Investigation of the degree of local structural similarity between the parent-liquid and children-crystal states for a model soft matter system. Physica A: Statistical Mechanics and Its Applications, 2022, 585, 126387.	2.6	5
2	Structure of the simple harmonic-repulsive system in liquid and glassy states studied by the triple correlation function. Journal of Physics Condensed Matter, 2021, 33, 025403.	1.8	3
3	Anomalous behavior and structure of a liquid of particles interacting through the harmonic-repulsive pair potential near the crystallization transition. Soft Matter, 2019, 15, 8840-8854.	2.7	7
4	A new cubic Ia3Ì...d crystal structure observed in a model single component system by molecular dynamics simulation. Zeitschrift Fur Kristallographie - Crystalline Materials, 2018, 233, 67-71.	0.8	4
5	Green-Kubo stress correlation function at the atomic scale and a long-range bond-orientational ordering in a model liquid. Physical Review E, 2018, 98, .	2.1	3
6	Crystalline structures of particles interacting through the harmonic-repulsive pair potential. Journal of Chemical Physics, 2017, 147, 114503.	3.0	8
7	Contribution to viscosity from the structural relaxation via the atomic scale Green-Kubo stress correlation function. Journal of Chemical Physics, 2017, 147, 184502.	3.0	11
8	Analysis of structural correlations in a model binary 3D liquid through the eigenvalues and eigenvectors of the atomic stress tensors. Journal of Chemical Physics, 2016, 144, 094502.	3.0	5
9	Analysis of spatial correlations in a model two-dimensional liquid through eigenvalues and eigenvectors of atomic-level stress matrices. Physical Review E, 2016, 93, 012602.	2.1	5
10	Dependence of the atomic level Green-Kubo stress correlation function on wavevector and frequency: Molecular dynamics results from a model liquid. Journal of Chemical Physics, 2014, 141, 124502.	3.0	10
11	Understanding the atomic-level Green-Kubo stress correlation function for a liquid through phonons in a model crystal. Physical Review B, 2014, 90, .	3.2	7
12	The origin of viscosity as seen through atomic level stress correlation function. Journal of Chemical Physics, 2013, 138, 044507.	3.0	36
13	Viscosity, Shear Waves, and Atomic-Level Stress-Stress Correlations. Physical Review Letters, 2011, 106, 115703.	7.8	52
14	Statistical Mechanics of Metallic Glasses and Liquids. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2010, 41, 1628-1633.	2.2	23
15	SIMULATING THE EFFECT OF POISSON RATIO ON METALLIC GLASS PROPERTIES. International Journal of Modern Physics B, 2009, 23, 1229-1234.	2.0	4
16	Many-body effects in bcc metals: An embedded atom model extension of the modified Johnson pair potential for iron. Physical Review B, 2008, 77, .	3.2	8
17	Equipartition theorem and the dynamics of liquids. Physical Review B, 2008, 78, .	3.2	46
18	Atomic bond fluctuations and crossover to potential-energy-landscape-influenced regime in supercooled liquid. Physical Review E, 2008, 78, 041202.	2.1	13

#	Article	IF	Citations
19	Quantum correction to the pair distribution function. Journal of Computational Chemistry, 2007, 28, 1865-1882.	3.3	10
20	Density fluctuations and the pair distribution function. Physical Review B, 2005, 72, .	3.2	24
21	Charged lattice gas with a neutralizing background. Physical Review B, 2003, 67, .	3.2	7
22	Notes on the Analysis of Data for Pair Distribution Functions. Fundamental Materials Research, 2002, , 105-128.	0.1	8
23	Cooperative Jahn-Teller effect and the band structures of KxC60 crystals. Synthetic Metals, 1997, 86, 2391-2392.	3.9	2
24	Electronic structure of linear chains of fullerenes. JETP Letters, 1997, 65, 683-686.	1.4	4
25	Polarons in linear chains of fullerenes. JETP Letters, 1996, 64, 567-572.	1.4	3