

Elena Gromnitskaya

List of Publications by Citations

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53
papers

537
citations

14
h-index

21
g-index

53
ext. papers

570
ext. citations

1.8
avg, IF

3.17
L-index

#	Paper	IF	Citations
53	Ultrasonic study of the nonequilibrium pressure-temperature diagram of H ₂ O ice. <i>Physical Review B</i> , 2001 , 64,	3.3	89
52	Hardening of fullerite C ₆₀ during temperature-induced polymerization and amorphization under pressure. <i>Applied Physics Letters</i> , 2000 , 76, 712-714	3.4	39
51	Elastic properties of crystalline and liquid gallium at high pressures. <i>Journal of Experimental and Theoretical Physics</i> , 2008 , 107, 818-827	1	28
50	Pressure-driven "molecular metal" to "atomic metal" transition in crystalline Ga. <i>Physical Review Letters</i> , 2007 , 98, 165503	7.4	27
49	Dielectric spectroscopy and ultrasonic study of propylene carbonate under ultra-high pressures. <i>Journal of Chemical Physics</i> , 2012 , 137, 084502	3.9	24
48	Mechanical behavior and microstructure of nanodiamond-based composite materials. <i>Journal of Materials Science Letters</i> , 2002 , 21, 1699-1702		24
47	On the nature of amorphous-to-amorphous and crystal-to-amorphous transitions under high pressure. <i>Journal of Non-Crystalline Solids</i> , 1997 , 212, 49-54	3.9	22
46	Ultrasonic study of the phase diagram of methanol. <i>JETP Letters</i> , 2004 , 80, 597-601	1.2	21
45	Elastic Softening of Amorphous H ₂ O Network prior to the hda-lda Transition in Amorphous State.. <i>Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu</i> , 1998 , 7, 1129-1131	0	20
44	Elastic properties of D ₂ O ices in solid-state amorphization and transformations between amorphous phases. <i>JETP Letters</i> , 2003 , 78, 488-492	1.2	18
43	Mechanism and kinetics of the reversible transformation lda-hda of amorphous ice under pressure. <i>JETP Letters</i> , 1999 , 69, 694-700	1.2	18
42	The high-pressure phase diagram of synthetic epsomite (MgSO ₄ ·7H ₂ O and MgSO ₄ ·7D ₂ O) from ultrasonic and neutron powder diffraction measurements. <i>Physics and Chemistry of Minerals</i> , 2013 , 40, 271-285	1.6	15
41	Mechanical Properties and Microstructure of Diamond/C Nanocomposites. <i>Inorganic Materials</i> , 2002 , 38, 1117-1122	0.9	15
40	Crossover between the thermodynamic and nonequilibrium scenarios of structural transformations of H ₂ O Ih ice during compression. <i>Journal of Experimental and Theoretical Physics</i> , 2002 , 94, 283-292	1	14
39	Vivid Manifestation of Nonergodicity in Glassy Propylene Carbonate at High Pressures. <i>Journal of Physical Chemistry B</i> , 2016 , 120, 7593-7	3.4	13
38	Effect of microstructure and grain size on the thermal conductivity of high-pressure-sintered diamond composites. <i>Inorganic Materials</i> , 2008 , 44, 224-229	0.9	13
37	Anomalies of the baric and temperature dependences of the elastic characteristics of ice during solid-phase amorphization and the phase transition in the amorphous state. <i>Journal of Experimental and Theoretical Physics</i> , 1997 , 85, 109-113	1	11

36	Microstructure and mechanical characteristics of nanodiamond-SiC compacts. <i>Physics of the Solid State</i> , 2004 , 46, 755-757	0.8	10
35	Elastic properties of the hydrogen-bonded liquid and glassy glycerol under high pressure: comparison with propylene carbonate. <i>RSC Advances</i> , 2017 , 7, 33278-33284	3.7	9
34	Elastic properties of carbon phases obtained from C60 under pressure: the first example of anisotropic disordered carbon solid. <i>Journal of Physics Condensed Matter</i> , 2002 , 14, 10911-10915	1.8	8
33	Application of the dusty plasma method for preparation of diamond ceramics. <i>Diamond and Related Materials</i> , 2014 , 41, 1-5	3.5	7
32	Structural and Dielectric Relaxations in Vitreous and Liquid State of Monohydroxy Alcohol at High Pressure. <i>Journal of Physical Chemistry B</i> , 2017 , 121, 8203-8210	3.4	7
31	Anisotropy of the elastic properties and the microhardness of disordered superhard carbon obtained from C60 fullerite under high pressures. <i>JETP Letters</i> , 2001 , 73, 552-556	1.2	7
30	Elastic properties of liquid and glassy propane-based alcohols under high pressure: the increasing role of hydrogen bonds in a homologous family. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 2665-2672	3.6	6
29	Equation of state and elastic properties of lithium: Isotope effects. <i>JETP Letters</i> , 1999 , 69, 38-43	1.2	6
28	Influence of isotopic disorder on solid state amorphization and polyamorphism in solid H ₂ O-D ₂ O solutions. <i>Physical Review B</i> , 2015 , 92,	3.3	5
27	Elastic properties of fullerites C ₆₀ and C ₇₀ under pressure. <i>Journal of Physics: Conference Series</i> , 2010 , 215, 012054	0.3	5
26	Transformations in amorphous solids under high pressures. <i>Uspekhi Fizicheskikh Nauk</i> , 1999 , 169, 1157	0.5	5
25	High-temperature Transitions of C ₆₀ at Moderate Pressures. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2008 , 16, 475-485	1.8	4
24	Physical and mechanical properties of dense materials produced by hot isostatic pressing of amorphous boron. <i>Inorganic Materials</i> , 2006 , 42, 479-483	0.9	4
23	Anomalies in the variation of elastic properties of cesium during phase transformations under a pressure up to 5 GPa. <i>Journal of Experimental and Theoretical Physics</i> , 2002 , 95, 77-82	1	4
22	Comparative study of the elastic properties of adamantane and 1-chloroadamantane at high pressure and different temperatures and at order-disorder transitions. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 2349-2354	3.6	4
21	Ultrasonic study of solid-phase amorphization and polyamorphism in an H ₂ O-D ₂ O (1: 1) solid solution. <i>JETP Letters</i> , 2013 , 96, 789-793	1.2	3
20	High pressure behavior of P ₂ O ₅ crystalline modifications: compressibility, elastic properties and phase transitions. <i>Materials Research Express</i> , 2015 , 2, 025201	1.7	3
19	Ultrasonic study of epsomite (MgSO ₄ ·7H ₂ O) under pressure. <i>High Pressure Research</i> , 2010 , 30, 51-54	1.6	3

18	Elasticity of Molecular Fullerite C60 under Pressure. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2008 , 16, 499-506	1.8	3
17	Synthesis of glassy boron ceramics. <i>High Pressure Research</i> , 2007 , 27, 179-182	1.6	3
16	Pressure effects on the kinetic properties and phase transitions in lithium. <i>Journal of Experimental and Theoretical Physics</i> , 2001 , 93, 393-396	1	3
15	On the 50th anniversary of the L F Vereshchagin Institute for High Pressure Physics, RAS (Scientific outreach session of the Physical Sciences Division of the Russian Academy of Sciences, 23 April 2008). <i>Physics-Uspokhi</i> , 2008 , 51, 1055-1083	2.8	2
14	Studies of the thermodynamic, elastic, superconducting, and magnetic properties of substances at high pressures. <i>Physics-Uspokhi</i> , 2008 , 51,	2.8	2
13	Ultrasonic study of monomeric fullerite C60 under pressure. <i>Journal of Physics: Conference Series</i> , 2008 , 121, 022008	0.3	2
12	Sintering of Diamond in the Presence of WO3. <i>Inorganic Materials</i> , 2004 , 40, 595-599	0.9	2
11	Disordering in Pyridine at High Pressures. <i>JETP Letters</i> , 2019 , 110, 603-606	1.2	2
10	Pressure Dependences of Elastic Constants of AMg6 Aluminum Magnesium Alloy and n-AMg6/B0 Nanocomposite Alloy. <i>Physics of the Solid State</i> , 2018 , 60, 769-773	0.8	1
9	Influence of hydrogen bonding on the elastic properties of molecular glassforming liquids under high pressure. <i>Journal of Physics: Conference Series</i> , 2017 , 950, 042053	0.3	1
8	Sintering, structure, and physicomechanical properties of Al-Cu-Fe quasicrystals compacted at high pressure. <i>Inorganic Materials</i> , 2014 , 50, 52-57	0.9	1
7	New Data on Compressibility of Molecular Fullerenes C60 and C70. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2010 , 18, 406-411	1.8	1
6	Elastic properties of metastable crystalline and amorphous gas-b-gc semiconductors synthesized under high pressure. <i>High Pressure Research</i> , 2003 , 23, 187-190	1.6	1
5	Anomalies in the velocity of longitudinal ultrasonic waves in cesium under the pressure up to 5 GPa. <i>High Pressure Research</i> , 1991 , 6, 213-217	1.6	1
4	Kinetics and Non-Ergodic Nature of Amorphous-Amorphous Transformations under Pressure 2002 , 448-468		1
3	Phase transitions in 1-bromoadamantane compared to 1-chloroadamantane: similarities and unique features. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 23274-23279	3.6	0
2	Pressure- and temperature- driven phase transitions in pyridine. <i>Journal of Physics: Conference Series</i> , 2020 , 1609, 012003	0.3	
1	Ultrasonic study of 1-propanol glasses with various thermobaric histories during the glass-liquid transition. <i>Journal of Physics: Conference Series</i> , 2019 , 1147, 012012	0.3	

