Elena Gromnitskaya

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Phase transitions in 1-bromoadamantane compared to 1-chloroadamantane: similarities and unique features. *Physical Chemistry Chemical Physics*, **2021**, 23, 23274-23279	3.6	0
52	Comparative study of the elastic properties of adamantane and 1-chloroadamantane at high pressure and different temperatures and at order-disorder transitions. *Physical Chemistry Chemical Physics*, **2021**, 23, 2349-2354	3.6	4
51	Pressure- and temperature- driven phase transitions in pyridine. *Journal of Physics: Conference Series*, **2020**, 1609, 012003	0.3	
50	Elastic properties of liquid and glassy propane-based alcohols under high pressure: the increasing role of hydrogen bonds in a homologous family. *Physical Chemistry Chemical Physics*, **2019**, 21, 2665-2672	3.6	6
49	Ultrasonic study of 1-propanol glasses with various thermobaric histories during the glass–liquid transition. *Journal of Physics: Conference Series*, **2019**, 1147, 012012	0.3	
48	Disordering in Pyridine at High Pressures. *JETP Letters*, **2019**, 110, 603-606	1.2	2
47	Pressure Dependences of Elastic Constants of AMg6 Aluminum–Magnesium Alloy and n-AMg6/B4C Nanocomposite Alloy. *Physics of the Solid State*, **2018**, 60, 769-773	0.8	1
46	Elastic properties of the hydrogen-bonded liquid and glassy glycerol under high pressure: comparison with propylene carbonate. *RSC Advances*, **2017**, 7, 33278-33284	3.7	9
45	Structural and Dielectric Relaxations in Vitreous and Liquid State of Monohydroxy Alcohol at High Pressure. *Journal of Physical Chemistry B*, **2017**, 121, 8203-8210	3.4	7
44	Influence of hydrogen bonding on the elastic properties of molecular glassforming liquids under high pressure. *Journal of Physics: Conference Series*, **2017**, 950, 042053	0.3	1
43	Vivid Manifestation of Nonergodicity in Glassy Propylene Carbonate at High Pressures. *Journal of Physical Chemistry B*, **2016**, 120, 7593-7	3.4	13
42	Influence of isotopic disorder on solid state amorphization and polyamorphism in solid H2O–D2O solutions. *Physical Review B*, **2015**, 92,	3.3	5
41	High pressure behavior of P2O5crystalline modifications: compressibility, elastic properties and phase transitions. *Materials Research Express*, **2015**, 2, 025201	1.7	3
40	Application of the dusty plasma method for preparation of diamond ceramics. *Diamond and Related Materials*, **2014**, 41, 1-5	3.5	7
39	Sintering, structure, and physicomechanical properties of Al-Cu-Fe quasicrystals compacted at high pressure. *Inorganic Materials*, **2014**, 50, 52-57	0.9	1
38	Ultrasonic study of solid-phase amorphization and polyamorphism in an H2O-D2O (1: 1) solid solution. *JETP Letters*, **2013**, 96, 789-793	1.2	3
37	The high-pressure phase diagram of synthetic epsomite (MgSO4·7H2O and MgSO4·7D2O) from ultrasonic and neutron powder diffraction measurements. *Physics and Chemistry of Minerals*, **2013**, 40, 271-285	1.6	15

36	Dielectric spectroscopy and ultrasonic study of propylene carbonate under ultra-high pressures. *Journal of Chemical Physics*, **2012**, 137, 084502	3.9	24
35	Elastic properties of fullerites C60and C70under pressure. *Journal of Physics: Conference Series*, **2010**, 215, 012054	0.3	5
34	New Data on Compressibility of Molecular Fullerites C60 and C70. *Fullerenes Nanotubes and Carbon Nanostructures*, **2010**, 18, 406-411	1.8	1
33	Ultrasonic study of epsomite (MgSO4□7H2O) under pressure. *High Pressure Research*, **2010**, 30, 51-54	1.6	3
32	Effect of microstructure and grain size on the thermal conductivity of high-pressure-sintered diamond composites. *Inorganic Materials*, **2008**, 44, 224-229	0.9	13
31	High-temperature Transitions of C60 at Moderate Pressures. *Fullerenes Nanotubes and Carbon Nanostructures*, **2008**, 16, 475-485	1.8	4
30	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). *Physics-Uspekhi*, **2008**, 51, 1055-1083	2.8	2
29	Studies of the thermodynamic, elastic, superconducting, and magnetic properties of substances at high pressures. *Physics-Uspekhi*, **2008**, 51,	2.8	2
28	Elasticity of Molecular Fullerite C60 under Pressure. *Fullerenes Nanotubes and Carbon Nanostructures*, **2008**, 16, 499-506	1.8	3
27	Ultrasonic study of monomeric fullerite C60under pressure. *Journal of Physics: Conference Series*, **2008**, 121, 022008	0.3	2
26	Elastic properties of crystalline and liquid gallium at high pressures. *Journal of Experimental and Theoretical Physics*, **2008**, 107, 818-827	1	28
25	Synthesis of glassy boron ceramics. *High Pressure Research*, **2007**, 27, 179-182	1.6	3
24	Pressure-driven "molecular metal" to "atomic metal" transition in crystalline Ga. *Physical Review Letters*, **2007**, 98, 165503	7.4	27
23	Physical and mechanical properties of dense materials produced by hot isostatic pressing of amorphous boron. *Inorganic Materials*, **2006**, 42, 479-483	0.9	4
22	Microstructure and mechanical characteristics of nanodiamond-SiC compacts. *Physics of the Solid State*, **2004**, 46, 755-757	0.8	10
21	Ultrasonic study of the phase diagram of methanol. *JETP Letters*, **2004**, 80, 597-601	1.2	21
20	Sintering of Diamond in the Presence of WO3. *Inorganic Materials*, **2004**, 40, 595-599	0.9	2
19	Elastic properties of D2O ices in solid-state amorphization and transformations between amorphous phases. *JETP Letters*, **2003**, 78, 488-492	1.2	18

18	Elastic properties of metastable crystalline and amorphous gasb-ge semiconductors synthesized under high pressure. *High Pressure Research*, **2003**, 23, 187-190	1.6	1
17	Crossover between the thermodynamic and nonequilibrium scenarios of structural transformations of H2O Ih ice during compression. *Journal of Experimental and Theoretical Physics*, **2002**, 94, 283-292	1	14
16	Anomalies in the variation of elastic properties of cesium during phase transformations under a pressure up to 5 GPa. *Journal of Experimental and Theoretical Physics*, **2002**, 95, 77-82	1	4
15	Mechanical behavior and microstructure of nanodiamond-based composite materials. *Journal of Materials Science Letters*, **2002**, 21, 1699-1702		24
14	Mechanical Properties and Microstructure of Diamond–SiC Nanocomposites. *Inorganic Materials*, **2002**, 38, 1117-1122	0.9	15
13	Elastic properties of carbon phases obtained from C60under pressure: the first example of anisotropic disordered carbon solid. *Journal of Physics Condensed Matter*, **2002**, 14, 10911-10915	1.8	8
12	Kinetics and Non-Ergodic Nature of Amorphous-Amorphous Transformations under Pressure **2002**, 448-468		1
11	Anisotropy of the elastic properties and the microhardness of disordered superhard carbon obtained from C60 fullerite under high pressures. *JETP Letters*, **2001**, 73, 552-556	1.2	7
10	Pressure effects on the kinetic properties and phase transitions in lithium. *Journal of Experimental and Theoretical Physics*, **2001**, 93, 393-396	1	3
9	Ultrasonic study of the nonequilibrium pressure-temperature diagram of H2O ice. *Physical Review B* , **2001**, 64,	3.3	89
8	Hardening of fullerite C60 during temperature-induced polymerization and amorphization under pressure. *Applied Physics Letters*, **2000**, 76, 712-714	3.4	39
7	Equation of state and elastic properties of lithium: Isotope effects. *JETP Letters*, **1999**, 69, 38-43	1.2	6
6	Mechanism and kinetics of the reversible transformation lda-hda of amorphous ice under pressure. *JETP Letters*, **1999**, 69, 694-700	1.2	18
5	Transformations in amorphous solids under high pressures. *Uspekhi Fizicheskikh Nauk*, **1999**, 169, 1157	0.5	5
4	Elastic Softening of Amorphous H2O Network prior to the hda-lda Transition in Amorphous State.. *Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu*, **1998**, 7, 1129-1131	0	20
3	On the nature of amorphous-to-amorphous and crystal-to-amorphous transitions under high pressure. *Journal of Non-Crystalline Solids*, **1997**, 212, 49-54	3.9	22
2	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. *Journal of Experimental and Theoretical Physics*, **1997**, 85, 109-113	1	11
1	Anomalies in the velocity of longitudinal ultrasonic waves in cesium under the pressure up to 5 GPa. *High Pressure Research*, **1991**, 6, 213-217	1.6	1