

# Elena Gromnitskaya

## List of Publications by Year in descending order

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52  
papers

613  
citations

566801

15  
h-index

642321

23  
g-index

53  
all docs

53  
docs citations

53  
times ranked

593  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultrasonic study of the nonequilibrium pressure-temperature diagram of H <sub>2</sub> O ice. <i>Physical Review B</i> , 2001, 64, .	1.1	95
2	Hardening of fullerite C <sub>60</sub> during temperature-induced polymerization and amorphization under pressure. <i>Applied Physics Letters</i> , 2000, 76, 712-714.	1.5	41
3	Elastic properties of crystalline and liquid gallium at high pressures. <i>Journal of Experimental and Theoretical Physics</i> , 2008, 107, 818-827.	0.2	31
4	Pressure-Driven "Molecular Metal" to "Atomic Metal" Transition in Crystalline Ga. <i>Physical Review Letters</i> , 2007, 98, 165503.	2.9	27
5	Dielectric spectroscopy and ultrasonic study of propylene carbonate under ultra-high pressures. <i>Journal of Chemical Physics</i> , 2012, 137, 084502.	1.2	27
6	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.	1.5	25
7	Mechanical behavior and microstructure of nanodiamond-based composite materials. <i>Journal of Materials Science Letters</i> , 2002, 21, 1699-1702.	0.5	24
8	Ultrasonic study of the phase diagram of methanol. <i>JETP Letters</i> , 2004, 80, 597-601.	0.4	24
9	Elastic Softening of Amorphous H <sub>2</sub> 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.	0.1	21
10	The high-pressure phase diagram of synthetic epsomite (MgSO <sub>4</sub> ·7H <sub>2</sub> O and MgSO <sub>4</sub> ·7D <sub>2</sub> O) from ultrasonic and neutron powder diffraction measurements. <i>Physics and Chemistry of Minerals</i> , 2013, 40, 271-285.	0.3	20
11	Mechanism and kinetics of the reversible transformation lda-hda of amorphous ice under pressure. <i>JETP Letters</i> , 1999, 69, 694-700.	0.4	19
12	Elastic properties of D <sub>2</sub> O ices in solid-state amorphization and transformations between amorphous phases. <i>JETP Letters</i> , 2003, 78, 488-492.	0.4	19
13	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.	1.7	18
14	Crossover between the thermodynamic and nonequilibrium scenarios of structural transformations of H <sub>2</sub> O Ih ice during compression. <i>Journal of Experimental and Theoretical Physics</i> , 2002, 94, 283-292.	0.2	16
15	Mechanical Properties and Microstructure of Diamond-SiC Nanocomposites. <i>Inorganic Materials</i> , 2002, 38, 1117-1122.	0.2	16
16	Vivid Manifestation of Nonergodicity in Glassy Propylene Carbonate at High Pressures. <i>Journal of Physical Chemistry B</i> , 2016, 120, 7593-7597.	1.2	16
17	Effect of microstructure and grain size on the thermal conductivity of high-pressure-sintered diamond composites. <i>Inorganic Materials</i> , 2008, 44, 224-229.	0.2	13
18	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.	0.2	12

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19	Microstructure and mechanical characteristics of nanodiamond-SiC compacts. Physics of the Solid State, 2004, 46, 755-757.	0.2	10
20	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.	1.3	10
21	Equation of state and elastic properties of lithium: Isotope effects. JETP Letters, 1999, 69, 38-43.	0.4	8
22	Elastic properties of carbon phases obtained from C <sub>60</sub> under pressure: the first example of anisotropic disordered carbon solid. Journal of Physics Condensed Matter, 2002, 14, 10911-10915.	0.7	8
23	Structural and Dielectric Relaxations in Vitreous and Liquid State of Monohydroxy Alcohol at High Pressure. Journal of Physical Chemistry B, 2017, 121, 8203-8210.	1.2	8
24	Anisotropy of the elastic properties and the microhardness of disordered superhard carbon obtained from C <sub>60</sub> fullerite under high pressures. JETP Letters, 2001, 73, 552-556.	0.4	7
25	On the 50th anniversary of the L F Vereshchagin Institute for High Pressure Physics, RAS (Scientific) Tj ETQq1 1 0.784314 rgBT /Overlaid Physics-Uspexhi, 2008, 51, 1055-1083.	0.8	7
26	Application of the dusty plasma method for preparation of diamond ceramics. Diamond and Related Materials, 2014, 41, 1-5.	1.8	7
27	Influence of isotropic disorder on solid state amorphization and polymorphism in solid xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi mathvariant="normal">H</mml:mi><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mo>â</mml:mo></mml:mrow></mml:msub><mml:mi mathvariant="normal">D</mml:mi><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub><mml:mi mathvariant="normal">O</mml:mi></mml:mrow></mml:math>solutions. Physical Review B, 2015, 92, .	1.1	7
28	High pressure behavior of P<sub>2</sub>O<sub>5</sub> crystalline modifications: compressibility, elastic properties and phase transitions. Materials Research Express, 2015, 2, 025201.	0.8	7
29	Physical and mechanical properties of dense materials produced by hot isostatic pressing of amorphous boron. Inorganic Materials, 2006, 42, 479-483.	0.2	6
30	Elastic properties of fullerenes C<sub>60</sub> and C<sub>70</sub> under pressure. Journal of Physics: Conference Series, 2010, 215, 012054.	0.3	6
31	Comparative study of the elastic properties of adamantane and 1-chloroadamantane at high pressure and different temperatures and at orderâ€ disorder transitions. Physical Chemistry Chemical Physics, 2021, 23, 2349-2354.	1.3	6
32	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.	0.2	4
33	Synthesis of glassy boron ceramics. High Pressure Research, 2007, 27, 179-182.	0.4	4
34	Highâ€ temperature Transitions of C<sub>60</sub> at Moderate Pressures. Fullerenes Nanotubes and Carbon Nanostructures, 2008, 16, 475-485.	1.0	4
35	Studies of the thermodynamic, elastic, superconducting, and magnetic properties of substances at high pressures. Physics-Uspexhi, 2008, 51, .	0.8	4
36	Ultrasonic study of solid-phase amorphization and polymorphism in an H <sub>2</sub> O-D <sub>2</sub> O (1: 1) solid solution. JETP Letters, 2013, 96, 789-793.	0.4	4

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37	Phase transitions in 1-bromoadamantane compared to 1-chloroadamantane: similarities and unique features. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 23274-23279.	1.3	4
38	Pressure effects on the kinetic properties and phase transitions in lithium. <i>Journal of Experimental and Theoretical Physics</i> , 2001, 93, 393-396.	0.2	3
39	Elasticity of Molecular Fullerite C <sub>60</sub> under Pressure. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2008, 16, 499-506.	1.0	3
40	Ultrasonic study of epsomite (MgSO <sub>4</sub> ·7H <sub>2</sub> O) under pressure. <i>High Pressure Research</i> , 2010, 30, 51-54.	0.4	3
41	Sintering of Diamond in the Presence of WO <sub>3</sub> . <i>Inorganic Materials</i> , 2004, 40, 595-599.	0.2	2
42	Ultrasonic study of monomeric fullerite C <sub>60</sub> under pressure. <i>Journal of Physics: Conference Series</i> , 2008, 121, 022008.	0.3	2
43	Pressure Dependences of Elastic Constants of AMg <sub>6</sub> Aluminum-Magnesium Alloy and n-AMg <sub>6</sub> /D <sub>60</sub> Nanocomposite Alloy. <i>Physics of the Solid State</i> , 2018, 60, 769-773.	0.2	2
44	Disordering in Pyridine at High Pressures. <i>JETP Letters</i> , 2019, 110, 603-606.	0.4	2
45	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.	0.4	1
46	Elastic properties of metastable crystalline and amorphous gas-b-gc semiconductors synthesized under high pressure. <i>High Pressure Research</i> , 2003, 23, 187-190.	0.4	1
47	New Data on Compressibility of Molecular Fullerenes C <sub>60</sub> and C <sub>70</sub> . <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2010, 18, 406-411.	1.0	1
48	Sintering, structure, and physicomechanical properties of Al-Cu-Fe quasicrystals compacted at high pressure. <i>Inorganic Materials</i> , 2014, 50, 52-57.	0.2	1
49	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
50	Kinetics and Non-Ergodic Nature of Amorphous-Amorphous Transformations under Pressure. , 2002, , 448-468.		1
51	Pressure- and temperature- driven phase transitions in pyridine. <i>Journal of Physics: Conference Series</i> , 2020, 1609, 012003.	0.3	0
52	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	0