# Alexander G Lyapin

## List of Publications by Citations



| | | | |
|---|---|---|---|
| 148 papers | 3,138 citations | 28 h-index | 50 g-index |
| 150 ext. papers | 3,319 ext. citations | 2.4 avg, IF | 4.82 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 148 | Harder than diamond: Dreams and reality. *Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties*, **2002**, 82, 231-253 | | 337 |
| 147 | Logarithmic Kinetics of the Amorphous-Amorphous Transformations in SiO2 and GeO2 Glasses under High Pressure. *Physical Review Letters*, **1998**, 80, 999-1002 | 7.4 | 202 |
| 146 | Two liquid states of matter: a dynamic line on a phase diagram. *Physical Review E*, **2012**, 85, 031203 | 2.4 | 175 |
| 145 | "Liquid-gas" transition in the supercritical region: fundamental changes in the particle dynamics. *Physical Review Letters*, **2013**, 111, 145901 | 7.4 | 127 |
| 144 | High-pressure phase transformations in liquids and amorphous solids. *Journal of Physics Condensed Matter*, **2003**, 15, 6059-6084 | 1.8 | 123 |
| 143 | Widom line for the liquid-gas transition in Lennard-Jones system. *Journal of Physical Chemistry B*, **2011**, 115, 14112-5 | 3.4 | 103 |
| 142 | Ultrasonic study of the nonequilibrium pressure-temperature diagram of H2O ice. *Physical Review B* , **2001**, 64, | 3.3 | 89 |
| 141 | Where is the supercritical fluid on the phase diagram?. *Physics-Uspekhi*, **2012**, 55, 1061-1079 | 2.8 | 83 |
| 140 | Mechanical properties of the 3D polymerized, sp2–sp3 amorphous, and diamond-plus-graphite nanocomposite carbon phases prepared from C60 under high pressure. *Journal of Applied Physics*, **1998**, 84, 219-226 | 2.5 | 79 |
| 139 | Nature of the structural transformations in B2O3 glass under high pressure. *Physical Review Letters* , **2008**, 101, 035702 | 7.4 | 65 |
| 138 | Metastable crystalline and amorphous carbon phases obtained from fullerite C60 by high-pressure–high-temperature treatment. *Physical Review B*, **1997**, 56, 11465-11471 | 3.3 | 63 |
| 137 | In situ study of the mechanism of formation of pressure-densified Sio2 glasses. *JETP Letters*, **2002**, 75, 342-347 | 1.2 | 59 |
| 136 | Nonequilibrium phase transitions and amorphization in Si, Si/GaAs, Ge, and Ge/GaSb at the decompression of high-pressure phases. *Physical Review B*, **1995**, 51, 7549-7554 | 3.3 | 58 |
| 135 | Glassy dynamics under superhigh pressure. *Physical Review E*, **2010**, 81, 041503 | 2.4 | 51 |
| 134 | Structural transformations and anomalous viscosity in the B2O3 melt under high pressure. *Physical Review Letters*, **2010**, 105, 115701 | 7.4 | 45 |
| 133 | Lattice parameters and thermal expansion of superconducting boron-doped diamonds. *Physical Review B*, **2006**, 74, | 3.3 | 45 |
| 132 | AsS melt under pressure: one substance, three liquids. *Physical Review Letters*, **2008**, 100, 145701 | 7.4 | 40 |

| | | | |
|---|---|---|---|
| 131 | Hardening of fullerite C60 during temperature-induced polymerization and amorphization under pressure. *Applied Physics Letters*, **2000**, 76, 712-714 | 3.4 | 39 |
| 130 | Universal viscosity growth in metallic melts at megabar pressures: the vitreous state of the Earth's inner core. *Physics-Uspekhi*, **2000**, 43, 493-508 | 2.8 | 37 |
| 129 | Non-Traditional Carbon Semiconductors Prepared from Fullerite C60 and Carbyne under High Pressure. *Physica Status Solidi (B): Basic Research*, **1999**, 211, 401-412 | 1.3 | 37 |
| 128 | Lattice instability approach to the problem of high-pressure solid-state amorphization. *High Pressure Research*, **1996**, 15, 9-30 | 1.6 | 36 |
| 127 | Pressure-induced lattice instability and solid-state amorphization. *Physical Review B*, **1996**, 54, 12036-12048 | 3.3 | 34 |
| 126 | Mechanism of formation of the superhard disordered graphite-like phase from fullerite C60 under pressure. *Journal of Physics Condensed Matter*, **2005**, 17, 249-256 | 1.8 | 32 |
| 125 | Hard and superhard carbon phases synthesized from fullerites under pressure. *Journal of Superhard Materials*, **2012**, 34, 400-423 | 0.9 | 31 |
| 124 | Nature of semiconductor-to-metal transition and volume properties of bulk tetrahedral amorphous GaSb and GaSb-Ge semiconductors under high pressure. *Physical Review Letters*, **1994**, 73, 3262-3265 | 7.4 | 30 |
| 123 | Energy dispersive x-ray diffraction and reverse Monte Carlo structural study of liquid gallium under pressure. *Physical Review B*, **2012**, 86, | 3.3 | 29 |
| 122 | Mechanism of three-dimensional polymerization of fullerite C60 at high pressures. *JETP Letters*, **1996**, 64, 802-807 | 1.2 | 29 |
| 121 | Elastic properties of crystalline and liquid gallium at high pressures. *Journal of Experimental and Theoretical Physics*, **2008**, 107, 818-827 | 1 | 28 |
| 120 | Elastic properties of superhard amorphous carbon pressure-synthesized from C60 by surface Brillouin scattering. *Physical Review B*, **2001**, 64, | 3.3 | 28 |
| 119 | Pressure-driven "molecular metal" to "atomic metal" transition in crystalline Ga. *Physical Review Letters*, **2007**, 98, 165503 | 7.4 | 27 |
| 118 | Interplay between the structure and properties of new metastable carbon phases obtained under high pressures from fullerite C60 and carbyne. *JETP Letters*, **2002**, 76, 681-692 | 1.2 | 27 |
| 117 | Structural transformations in liquid, crystalline, and glassy B2O3 under high pressure. *JETP Letters*, **2003**, 78, 393-397 | 1.2 | 26 |
| 116 | Atomistic modeling of multiple amorphous-amorphous transitions in SiO2 and GeO2 glasses at megabar pressures. *Physical Review B*, **2011**, 83, | 3.3 | 25 |
| 115 | Metastable high-pressure phases of low-Z compounds: creation of a new chemistry or a prompt for old principles?. *Nature Materials*, **2004**, 3, 497-500 | 27 | 25 |
| 114 | Dielectric spectroscopy and ultrasonic study of propylene carbonate under ultra-high pressures. *Journal of Chemical Physics*, **2012**, 137, 084502 | 3.9 | 24 |

| | | | |
|---|---|---|---|
| 113 | Universal crossover of liquid dynamics in supercritical region. *JETP Letters*, **2012**, 95, 164-169 | 1.2 | 23 |
| 112 | AsS: Bulk inorganic molecular-based chalcogenide glass. *Applied Physics Letters*, **2007**, 91, 031912 | 3.4 | 23 |
| 111 | Transformations of C60fullerite under high-pressure high-temperature conditions. *Physics-Uspekhi*, **1996**, 39, 837-840 | 2.8 | 22 |
| 110 | Ultrasonic study of the phase diagram of methanol. *JETP Letters*, **2004**, 80, 597-601 | 1.2 | 21 |
| 109 | Nonequilibrium Phase Transformations in Diamond and Zincblende Semiconductors under High Pressure. *Physica Status Solidi (B): Basic Research*, **1996**, 198, 481-490 | 1.3 | 20 |
| 108 | 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 |
| 107 | Harder than diamond: Dreams and reality | | 20 |
| 106 | Martensitic transition in single-crystalline GeO2 at compression. *JETP Letters*, **2000**, 71, 293-297 | 1.2 | 19 |
| 105 | Elastic properties of D2O ices in solid-state amorphization and transformations between amorphous phases. *JETP Letters*, **2003**, 78, 488-492 | 1.2 | 18 |
| 104 | Pressure-induced crossover between diffusive and displacive mechanisms of phase transitions in single-crystalline alpha-GeO2. *Physical Review Letters*, **2003**, 90, 145503 | 7.4 | 18 |
| 103 | Mechanism and kinetics of the reversible transformation lda-hda of amorphous ice under pressure. *JETP Letters*, **1999**, 69, 694-700 | 1.2 | 18 |
| 102 | Bulk nanostructured carbon phases prepared from C60: approaching the ideal hardness. *Journal of Physics Condensed Matter*, **2007**, 19, 236209 | 1.8 | 17 |
| 101 | Densified low-hygroscopic form of P2O5 glass. *Journal of Materials Chemistry*, **2011**, 21, 10442 | | 16 |
| 100 | Molecular-network-ionic structure transitions in liquid AlCl(3) and ZnCl(2) halogenides under pressure. *Journal of Physics Condensed Matter*, **2007**, 19, 246104 | 1.8 | 16 |
| 99 | Two scenarios for phase-transformation in disordered media. *JETP Letters*, **2003**, 78, 542-547 | 1.2 | 16 |
| 98 | Preparation of a new class of semiconductors: bulk amorphous tetrahedral solid solutions Ge1 (GaSb)x. *Journal of Materials Science*, **1995**, 30, 443-446 | 4.3 | 16 |
| 97 | 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 |
| 96 | Pressure-induced change in the relaxation dynamics of glycerol. *JETP Letters*, **2010**, 92, 479-483 | 1.2 | 15 |

| | | | |
|---|---|---|---|
| 95 | Comment on Cauchy Relation in Dense H2O Ice VII. *Physical Review Letters*, **1997**, 78, 2493-2493 | 7.4 | 15 |
| 94 | Mechanism of the formation of a diamond nanocomposite during transformations of C60 fullerite at high pressure. *JETP Letters*, **1999**, 69, 869-875 | 1.2 | 15 |
| 93 | Structural transformation yielding an unusual metallic state in liquid As2S3 under high pressure. *Physical Review B*, **2010**, 82, | 3.3 | 14 |
| 92 | Elastic softness of amorphous tetrahedrally bonded GaSb and (Ge2)0.27(GaSb)0.73 semiconductors. *Physical Review B*, **1997**, 56, 990-993 | 3.3 | 14 |
| 91 | 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 |
| 90 | Mechanical Properties of the Superhard Polymeric and Disordered Phases Prepared from C60, C70, and C2N under High Pressure.. *Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu*, **1998**, 7, 989-991 | 0 | 14 |
| 89 | Comment on "Behavior of Supercritical Fluids across the 'Frenkel Line'". *Journal of Physical Chemistry B*, **2018**, 122, 6124-6128 | 3.4 | 13 |
| 88 | Structural and elastic anisotropy of carbon phases prepared from fullerite C60. *Applied Physics Letters*, **2003**, 83, 3903-3905 | 3.4 | 13 |
| 87 | Pressure-induced structural transformations and the anomalous behavior of the viscosity in network chalcogenide and oxide melts. *JETP Letters*, **2011**, 94, 161-170 | 1.2 | 12 |
| 86 | Anharmonicity of short-wavelength acoustic phonons in silicon at high temperatures. *JETP Letters*, **2000**, 72, 195-198 | 1.2 | 12 |
| 85 | Pressure-induced distortion of the amorphous tetrahedral network in a-GaSb: Direct evidence from EXAFS. *Physical Review B*, **1996**, 54, R14242-R14245 | 3.3 | 12 |
| 84 | Electron transport in carbynes modified under high pressure. *JETP Letters*, **2003**, 78, 511-519 | 1.2 | 11 |
| 83 | Comment on "New metallic crystalline carbon: three dimensionally polymerized C60 fullerite". *Physical Review Letters*, **2000**, 85, 5671-2 | 7.4 | 11 |
| 82 | AsS layered-structure compound: new kind of covalent crystals. *CrystEngComm*, **2011**, 13, 2599 | 3.3 | 10 |
| 81 | Compressibility and polymorphism of As(4)S(4) realgar under high pressure. *Journal of Physics Condensed Matter*, **2009**, 21, 385401 | 1.8 | 10 |
| 80 | Nonlocal dielectric relaxation in glycerol. *Physical Review B*, **2011**, 84, | 3.3 | 10 |
| 79 | Structural studies of phase transitions in crystalline and liquid halides (ZnCl2, AlCl3) under pressure. *JETP Letters*, **2005**, 82, 713-718 | 1.2 | 10 |
| 78 | Phase transformations and the nature of the semiconductor-to-metal transition in bulk a-GaSb and a-(Ge2)1-x(GaSb)x semiconductors under high pressure. *Physical Review B*, **1996**, 54, 1808-1818 | 3.3 | 10 |

| | | | |
|---|---|---|---|
| 77 | Kinetics of Amorphous-to-Amorphous Transformations in SiO2 and GeO2 Glasses under High Pressure.. *Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu*, **1998**, 7, 347-352 | 0 | 10 |
| 76 | 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 |
| 75 | The Frenkel line and supercritical technologies. *Russian Journal of Physical Chemistry B*, **2014**, 8, 1087-1094 | 1.2 | 9 |
| 74 | High-pressure phases in the GaSb-Mn system. *Physics of the Solid State*, **2006**, 48, 2177-2182 | 0.8 | 9 |
| 73 | Thermodynamic properties of 1D and 2D polymerized fullerite C60 between 0 and 340 K at standard pressure. *Thermochimica Acta*, **2000**, 364, 23-33 | 2.9 | 9 |
| 72 | Structural Studies of Bulk Amorphous GaSb under High Pressures. *Physica Status Solidi (B): Basic Research*, **1996**, 198, 503-508 | 1.3 | 9 |
| 71 | P-T phase diagram and structural transformations of molten P2O5 under pressure. *Physical Review B*, **2014**, 89, | 3.3 | 8 |
| 70 | Electrotransport and magnetic properties of Cr-GaSb phases synthesized under high pressure. *Journal of Physics Condensed Matter*, **2011**, 23, 446001 | 1.8 | 8 |
| 69 | Phase equilibria in partially open systems under pressure: the decomposition of stoichiometric GeO2oxide. *Physics-Uspekhi*, **2003**, 46, 1283-1289 | 2.8 | 8 |
| 68 | 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 |
| 67 | Three-Dimensional Polymerization of Fullerite C60 under High Pressure.. *Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu*, **1998**, 7, 811-813 | 0 | 8 |
| 66 | Structural Transformations in Fullerite C60 under High-Pressure(P=12.5GPa) and High-Temperature Conditions.. *Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu*, **1998**, 7, 817-819 | 0 | 8 |
| 65 | 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 |
| 64 | DIRECTIONAL ANISOTROPY IN CARBON PHASES PREPARED FROM FULLERITE C60 UNDER HIGH PRESSURES. *High Pressure Research*, **2003**, 23, 275-279 | 1.6 | 7 |
| 63 | Thermodynamics of 2D polymerized tetragonal phase of fullerene C60 in the range from T-0 to 650K at standard pressure. *Thermochimica Acta*, **2004**, 411, 101-108 | 2.9 | 7 |
| 62 | Correlations between the physical properties of the carbon phases obtained at a high pressure from C60 fullerite. *Physics of the Solid State*, **2002**, 44, 405-409 | 0.8 | 7 |
| 61 | 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 |
| 60 | The inversion of relative shear rigidity in different material classes at megabar pressures. *Journal of Physics Condensed Matter*, **2002**, 14, 10861-10867 | 1.8 | 7 |

| | | | |
|---|---|---|---|
| 59 | Behavior of detonation nanodiamond at high pressures and temperatures in the presence of a hydrogen-containing fluid. *Inorganic Materials*, **2016**, 52, 351-356 | 0.9 | 7 |
| 58 | 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 |
| 57 | Ferromagnetism in the high-pressure phases of (GaSb)1 Mnx. *JETP Letters*, **2006**, 84, 195-198 | 1.2 | 6 |
| 56 | New Types of Phase Transitions: Phenomenology, Concepts and Terminology **2002**, 15-27 | | 6 |
| 55 | Energy-dispersive X-ray diffraction study of liquid gallium under high pressure at elevated temperatures. *High Pressure Research*, **2013**, 33, 191-195 | 1.6 | 5 |
| 54 | Influence of isotopic disorder on solid state amorphization and polyamorphism in solid H2O D2O solutions. *Physical Review B*, **2015**, 92, | 3.3 | 5 |
| 53 | Elastic properties of fullerites C60and C70under pressure. *Journal of Physics: Conference Series*, **2010**, 215, 012054 | 0.3 | 5 |
| 52 | Thermopower in the hopping conductivity region: Transition from Mott to Zvyagin formula. *JETP Letters*, **1998**, 68, 842-847 | 1.2 | 5 |
| 51 | Anisotropic Carbon Phases Prepared from Fullerite C70 under High Pressure. *Fullerenes Nanotubes and Carbon Nanostructures*, **2006**, 14, 409-414 | 1.8 | 5 |
| 50 | 1D-3D crossover in hopping conduction of carbynes. *JETP Letters*, **2000**, 72, 381-384 | 1.2 | 5 |
| 49 | Structural transformations of the cumulene form of amorphous carbyne at high pressure. *JETP Letters*, **1997**, 66, 255-260 | 1.2 | 4 |
| 48 | High-temperature Transitions of C60 at Moderate Pressures. *Fullerenes Nanotubes and Carbon Nanostructures*, **2008**, 16, 475-485 | 1.8 | 4 |
| 47 | Hopping conduction and magnetoresistance of C2N -based nanomaterials synthesized under high pressure. *Physics of the Solid State*, **2007**, 49, 1403-1409 | 0.8 | 4 |
| 46 | Thermodynamic properties of graphite-like nanostructures prepared by thermobaric treatment of fullerite C60. *Russian Chemical Bulletin*, **2008**, 57, 1975-1980 | 1.7 | 4 |
| 45 | Scaling of magnetoresistance of carbon nanomaterials in Mott-type hopping conductivity region. *Physics of the Solid State*, **2008**, 50, 1386-1391 | 0.8 | 4 |
| 44 | Thermodynamic and dilatometric properties of the dimerized phase of a C60 fullerene. *Physics of the Solid State*, **2003**, 45, 802-808 | 0.8 | 4 |
| 43 | Elastic properties of substances in the megabar pressure range: Inversion of shear rigidity. *JETP Letters*, **2001**, 73, 197-201 | 1.2 | 4 |
| 42 | The kinetics of decay of supersaturated solid solutions Al(Si) produced under high pressure. *Physica Status Solidi A*, **1993**, 140, 127-133 | | 4 |

| | | | |
|---|---|---|---|
| 41 | Order versus disorder: In situ high-pressure structural study of highly polymerized three-dimensional C60 fullerite. *Journal of Applied Physics*, **2019**, 126, 065102 | 2.5 | 3 |
| 40 | Magnetoresistance of the high-pressure ferromagnetic phases (GaSb)2M (M=Cr,Mn). *Journal of Physics Condensed Matter*, **2014**, 26, 326001 | 1.8 | 3 |
| 39 | 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 |
| 38 | High pressure behavior of P2O5crystalline modifications: compressibility, elastic properties and phase transitions. *Materials Research Express*, **2015**, 2, 025201 | 1.7 | 3 |
| 37 | Ultrasonic study of epsomite (MgSO4□7H2O) under pressure. *High Pressure Research*, **2010**, 30, 51-54 | 1.6 | 3 |
| 36 | Onset of a nonoptimal hopping regime for ac conductivity in amorphous gallium antimonide. *JETP Letters*, **1997**, 65, 342-348 | 1.2 | 3 |
| 35 | Elasticity of Molecular Fullerite C60 under Pressure. *Fullerenes Nanotubes and Carbon Nanostructures*, **2008**, 16, 499-506 | 1.8 | 3 |
| 34 | Electrotransport and magnetic properties of metastable phases in the system GaSb-Mn synthesized under high pressure. *Journal of Physics: Conference Series*, **2008**, 121, 032011 | 0.3 | 3 |
| 33 | The influence of dimerization on the orientational phase transition in the C60 fullerite. *Physics of the Solid State*, **2002**, 44, 447-449 | 0.8 | 3 |
| 32 | A new nanocluster carbyne-based material synthesized under high pressure. *Physics of the Solid State*, **2002**, 44, 607-611 | 0.8 | 3 |
| 31 | Transformations in amorphous solids under high pressures. *Physics-Uspekhi*, **1999**, 42, 1059-1062 | 2.8 | 3 |
| 30 | High pressure solid state amorphization of Si, Ge and solid solutions Si:GaAs, Ge:GaSb. *High Pressure Research*, **1994**, 13, 47-49 | 1.6 | 3 |
| 29 | Graphitization and preparation of diamond in an amorphous carbon material at high pressures and temperatures. *Inorganic Materials*, **2017**, 53, 154-159 | 0.9 | 2 |
| 28 | Ultrasonic study of monomeric fullerite C60under pressure. *Journal of Physics: Conference Series*, **2008**, 121, 022008 | 0.3 | 2 |
| 27 | A calorimetric study of the dimerized phase of C60 fullerene. *Physics of the Solid State*, **2006**, 48, 1016-1023 | 0.8 | 2 |
| 26 | High-Pressure Structural Transformations of Carbyne. *Inorganic Materials*, **2005**, 41, 950-954 | 0.9 | 2 |
| 25 | Amorphous semiconductors prepared by quenching under high pressure. *Physics-Uspekhi*, **1994**, 37, 185-187 | 2.8 | 2 |
| 24 | 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 |

| | | | |
|---|---|---|---|
| 23 | Nanostructured Superhard Carbon Phases Synthesized from Fullerites under Pressure **2014**, 539-563 | | 1 |
| 22 | New Data on Compressibility of Molecular Fullerites C60 and C70. *Fullerenes Nanotubes and Carbon Nanostructures*, **2010**, 18, 406-411 | 1.8 | 1 |
| 21 | Hopping Conductivity Spectroscopy of Carbon Nanocluster Materials. *Fullerenes Nanotubes and Carbon Nanostructures*, **2008**, 16, 445-453 | 1.8 | 1 |
| 20 | Hopping conductivity in carbynes. Magnetoresistance and Hall effect. *Physica Status Solidi C: Current Topics in Solid State Physics*, **2004**, 1, 29-32 | | 1 |
| 19 | Elastic properties of metastable crystalline and amorphous gasb-ge semiconductors synthesized under high pressure. *High Pressure Research*, **2003**, 23, 187-190 | 1.6 | 1 |
| 18 | Kinetic Properties of Orientational Phase Transition in Polymerized States of Fullerites C60. *Fullerenes Nanotubes and Carbon Nanostructures*, **2005**, 12, 259-262 | 1.8 | 1 |
| 17 | Acoustic Microscopy and Surface Brillouin Scattering of Amorphous Carbon Pressure-Synthesized From C60. *Materials Research Society Symposia Proceedings*, **2001**, 675, 1 | | 1 |
| 16 | Local atomic ordering in bulk amorphous (GaSb)1-xGe2x. *Journal of Synchrotron Radiation*, **1999**, 6, 492-4 | 2.4 | 1 |
| 15 | Mechanical Properties of Polymerized, Amorphous, and Nanocrystalline Carbon Phases Prepared from Fullerite C60 under Pressure **2002**, 199-216 | | 1 |
| 14 | Transitions in Liquids: Examples and Open Questions **2002**, 238-254 | | 1 |
| 13 | Kinetics and Non-Ergodic Nature of Amorphous-Amorphous Transformations under Pressure **2002**, 448-468 | | 1 |
| 12 | Non-Traditional Carbon Semiconductors Prepared from Fullerite C60 and Carbyne under High Pressure **1999**, 211, 401 | | 1 |
| 11 | Pressure- and temperature- driven phase transitions in pyridine. *Journal of Physics: Conference Series*, **2020**, 1609, 012003 | 0.3 | |
| 10 | Electro-and magnetotransport properties of disordered carbon phases synthesized from C60 fullerite at moderate pressures P syn JETP Letters, **2008**, 88, 54-58 | 1.2 | |
| 9 | Dilatometry and X-Ray Study of Orientational Phase Transitions in C60. *Fullerenes Nanotubes and Carbon Nanostructures*, **2006**, 14, 415-419 | 1.8 | |
| 8 | Anisotropic Nanoclustered Carbon Phases Prepared from Fullerite C60 Under Non-hydrostatic High Pressure. *Fullerenes Nanotubes and Carbon Nanostructures*, **2005**, 12, 235-241 | 1.8 | |
| 7 | High-pressure synthesis of metastable ternary solid solutions between tetrahedral semiconductors. *Inorganic Materials*, **2000**, 36, 431-436 | 0.9 | |
| 6 | Local structure of bulk amorphous and crystalline (GaSb)1□(Ge2)x. *Physical Review B*, **2000**, 61, 1907-1911 | 3.3 | |

| | | |
|---|---|---|
| 5 | Semiconductor-to-metal transition in bulk amorphous gallium antimonide under high pressure. *High Pressure Research*, **1994**, 13, 55-59 | 1.6 |
| 4 | Properties of Al-Si alloys prepared by rapid quenching from the melt under high pressure. *High Pressure Research*, **1991**, 7, 274-276 | 1.6 |
| 3 | Mechanical Properties of Polymerized, Amorphous, and Nanocrystalline Carbon Phases Prepared from Fullerite C60 under Pressure **2002**, 199-216 | |
| 2 | Ultrasonic study of 1-propanol glasses with various thermobaric histories during the glass□quid transition. *Journal of Physics: Conference Series*, **2019**, 1147, 012012 | 0.3 |
| 1 | Pressure-Driven Liquid□iquid Transformations and Corresponding Bizarre Viscosity Behavior. *Advances in Chemical Physics*,29-50 | |