

Anatolii Prokhvatilov

List of Publications by Year in descending order

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357
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Structure and thermal expansion of C_{60} . <i>Physica Status Solidi A</i> , 1973, 19, 519-527. | 1.7 | 42 |
| 2 | Analysis of thermodynamic properties of fullerite C_{60} . <i>Low Temperature Physics</i> , 1999, 25, 724-731. | 0.6 | 28 |
| 3 | Influence of magnetic field on the paramagnetic-ferromagnetic transition in $\text{La}_{1-x}\text{Ca}_x\text{MnO}_3$ crystal: Ultrasonic and transport studies. <i>Physical Review B</i> , 2006, 74, . | 3.2 | 26 |
| 4 | X-ray crystallographic study of the structure of deuteromethane in the temperature range 6-40 K. <i>Journal of Structural Chemistry</i> , 1971, 12, 313-314. | 1.0 | 22 |
| 5 | Intercalation of C_{60} fullerite with helium and argon at normal temperature and pressure. <i>Low Temperature Physics</i> , 2003, 29, 445-448. | 0.6 | 22 |
| 6 | The structure, slip systems, and microhardness of C_{60} crystals. <i>Low Temperature Physics</i> , 1997, 23, 251-261. | 0.6 | 20 |
| 7 | Hysteretic phenomena in Xe-doped C_{60} from x-ray diffraction. <i>Low Temperature Physics</i> , 2005, 31, 445-448. | 0.6 | 19 |
| 8 | Structure, phase transitions, and thermal expansion of ethane C_2H_6 . <i>Low Temperature Physics</i> , 2008, 34, 1038-1043. | 0.6 | 16 |
| 9 | Intercalation of fullerite C_{60} with N_2 molecules. An investigation by x-ray powder diffraction. <i>Low Temperature Physics</i> , 2007, 33, 881-885. | 0.6 | 15 |
| 10 | Temperature dependence of the crystalline lattice parameter of methane in the range of 11-70 K. <i>Journal of Structural Chemistry</i> , 1972, 12, 670-672. | 1.0 | 14 |
| 11 | Microstructural and transport properties of superconducting $\text{FeTe}_{0.65}\text{Se}_{0.35}$ crystals. <i>Superconductor Science and Technology</i> , 2017, 30, 015018. | 3.5 | 13 |
| 12 | Structure, lattice parameters, and thermal expansion anisotropy of C_{70} fullerite. <i>Low Temperature Physics</i> , 2001, 27, 1037-1047. | 0.6 | 12 |
| 13 | Lattice parameters, thermal expansion coefficients, and vacancy density in solid CD_4 . <i>Physica Status Solidi A</i> , 1983, 78, 147-155. | 1.7 | 11 |
| 14 | Structure and photoluminescence of helium-intercalated fullerite C_{60} . <i>Low Temperature Physics</i> , 2002, 28, 942-944. | 0.6 | 11 |
| 15 | Quench deposited Kr-H_2 and Ar-H_2 mixtures: in quest of impurity "hydrogen gels. <i>Low Temperature Physics</i> , 2003, 29, 522-526. | 0.6 | 11 |
| 16 | Properties of solid hydrogen doped by heavy atomic and molecular impurities. <i>Low Temperature Physics</i> , 2003, 29, 784-787. | 0.6 | 10 |
| 17 | Hydrogen absorption and desorption kinetics in fullerite C_{60} single crystals. Low-temperature micromechanical and structural characteristics of the interstitial solid solution $\text{C}_{60}(\text{H}_2)_x$. <i>Low Temperature Physics</i> , 2008, 34, 69-74. | 0.6 | 10 |
| 18 | Temperature dependence of the lattice parameters and coefficients of thermal expansion of deuteromethane. <i>Journal of Structural Chemistry</i> , 1972, 12, 1036-1038. | 1.0 | 9 |

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|----|---|-----|-----------|
| 19 | Structure and thermal expansion of the low-temperature phase of SF ₆ . Low Temperature Physics, 2000, 26, 296-304. | 0.6 | 9 |
| 20 | X-ray studies of the effects of intercalation of C ₆₀ fullerite crystals by Ne atoms. Low Temperature Physics, 2007, 33, 89-93. | 0.6 | 9 |
| 21 | Process of intercalation of C ₆₀ with molecular hydrogen according to x-ray diffraction data. Low Temperature Physics, 2009, 35, 238-242. | 0.6 | 9 |
| 22 | Interlayer Mn ²⁺ /Mn exchange parameter in MnPS ₃ from x-ray diffraction data. Low Temperature Physics, 2012, 38, 383-385. | 0.6 | 9 |
| 23 | Saturation of fullerite C ₆₀ with hydrogen: Adsorption crossover studies. Low Temperature Physics, 2012, 38, 952-956. | 0.6 | 9 |
| 24 | Influence of an admixture of H ₂ molecules on the structure and parameters of a Ne lattice. Low Temperature Physics, 2004, 30, 984-989. | 0.6 | 8 |
| 25 | The effect of molecular impurities CO and CH ₄ on the structural characteristics of the C ₆₀ fullerene around the orientational phase transition. Low Temperature Physics, 2012, 38, 221-226. | 0.6 | 8 |
| 26 | X-ray studies of phase transitions in solid oxygen. Low Temperature Physics, 2001, 27, 391-396. | 0.6 | 7 |
| 27 | Solid solutions Ne ⁿ D ₂ . Diagram of phase equilibrium. Low Temperature Physics, 2005, 31, 947-950. | 0.6 | 6 |
| 28 | Structure of the solid phases of SiH ₄ . Low Temperature Physics, 2008, 34, 142-151. | 0.6 | 6 |
| 29 | The effect of the thermal reduction on the kinetics of low-temperature ⁴ He sorption and the structural characteristics of graphene oxide. Low Temperature Physics, 2017, 43, 383-389. | 0.6 | 6 |
| 30 | Orientational order parameter in the ordered phase of solid deuterium from neutron-diffraction data. Low Temperature Physics, 2004, 30, 118-121. | 0.6 | 5 |
| 31 | The impact of treating graphene oxide with a pulsed high-frequency discharge on the low-temperature sorption of hydrogen. Low Temperature Physics, 2020, 46, 293-300. | 0.6 | 5 |
| 32 | Low-temperature lattice instability in SnTe. Low Temperature Physics, 1999, 25, 285-289. | 0.6 | 4 |
| 33 | Structure of the high-temperature phase of tetrafluoromethane CF ₄ . Low Temperature Physics, 2008, 34, 960-965. | 0.6 | 4 |
| 34 | Effect of impurity oxygen molecules on the structural and thermodynamic properties of fullerite C ₆₀ . Low Temperature Physics, 2010, 36, 266-271. | 0.6 | 4 |
| 35 | Structure and microhardness of low pressure polymerized fullerite C ₆₀ . Low Temperature Physics, 1998, 24, 896-903. | 0.6 | 3 |
| 36 | Structure of quench condensed nH ₂ ⁿ N ₂ binary alloys: isotope effect. Low Temperature Physics, 2007, 33, 499-503. | 0.6 | 3 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Unit cell parameters and thermal expansion of silane SiH ₄ . Low Temperature Physics, 2008, 34, 228-233. | 0.6 | 3 |
| 38 | Structure of the low-temperature phase of hexafluoroethane. Low Temperature Physics, 2010, 36, 189-195. | 0.6 | 3 |
| 39 | Phase transition and thermal expansion of hexafluoroethane. Low Temperature Physics, 2011, 37, 163-168. | 0.6 | 3 |
| 40 | Structure characteristics of methane-doped solid normal hydrogen. Low Temperature Physics, 2000, 26, 676-679. | 0.6 | 2 |
| 41 | Influence of CO molecular impurity on the structural and thermodynamic properties of fullerite C ₆₀ , in a broad range of sorption temperatures. Low Temperature Physics, 2016, 42, 126-132. | 0.6 | 2 |
| 42 | Effect of Cold Plasma Treatment of Carbon Nanostructures on the Hydrogen Sorption. Low Temperature Physics, 2018, 44, 810-815. | 0.6 | 2 |
| 43 | Lattice parameters and thermal expansion of 2-bromobenzophenone crystals in the 90â€“300â€“K range. Low Temperature Physics, 2016, 42, 317-320. | 0.6 | 1 |
| 44 | Effect of nonmagnetic impurities on the spontaneous magnetostriction in $\hat{1}^2$ -O ₂ crystals. Low Temperature Physics, 2002, 28, 61-65. | 0.6 | 1 |
| 45 | X-ray studies of barium manganite Ba ₆ Mn ₂₄ O ₄₈ in the magnetic transition region. Low Temperature Physics, 2016, 42, 149-151. | 0.6 | 0 |
| 46 | Thermocatalytic pyrolysis of CO molecules. Structure and sorption characteristics of the carbon nanomaterial. Low Temperature Physics, 2018, 44, 334-340. | 0.6 | 0 |