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Education: M. Gorky (now V.N. Karazin) Kharkiv State University
Specialty: Physics
Postgraduate studies at B.Verkin ILTPE of NASU

Academic degree:
Candidate of Physical and Mathematical Sciences "Low Temperature Physics and Engineering" (1987)
Academic title:
Senior Researcher (2007)

Main areas of work:
Low-temperature studies of thermal properties (heat capacity, thermal conductivity, thermal expansion) of quantum and classical cryocrystals and their solutions, orientation glasses, carbon nanomaterials, and low-dimensional systems.

Membership in scientific societies and other associations of scientists:
Member of the Scientific Council on the problem of "Molecular Physics, Physics of Cryogenic Liquids and Crystals" of the B.Verkin ILTPE of NASU, 2020 – 2025.

Publications :
114
Selected publications in the last 5 years:

1. Experimental Evidence of Flexural Phonons in Low-Temperature Heat Capacity of Carbon Nanotubes/ Barabashko M. S., Krivchikov A. I., Jeżowski A., Bezkrovnyi O., Bagatskii M. I., Sumarokov V. V., Boiko V., Szewczyk D. // Carbon Trends – 2025 – 100479.
2. Measurements on the heat capacity of thermal reduced graphene oxide down to 0.3 K / Sumarokov V. V., Dolbin A. V., Jeżowski A., Szewczyk D., Gnida D., Vinnikov N. A., Bagatskii M. I.// Low Temp. Phys. – 2024 – V. 50, № 2 – P. 185.
3. Experimental heat capacity of 1D chains of Xe atoms adsorbed in the grooves of c-SWCNTs bundles: Contributions of vibrations and spatial redistribution of atoms / Barabashko M. S., Bagatskii M. I., Dolbin A. V., Sumarokov, V. V.// Low Temp.Phys. – 2023 – V.49, №8 – P. 979.
4. Size effects in the heat capacity of modified MWCNTs / Bagatskii M. I., Jeżowski A., Szewczyk D., Sumarokov V. V., Barabashko M. S., et al. // Thermal Science and Engineering Progress - 2021 - V. 26, 101097.
5. Calorimetric, NEXAFS and XPS studies of MWCNTs with low defectiveness / Barabashko M. S., Drozd M., Szewczyk D., Jeżowski A., Bagatskii M. I., Sumarokov V. V., et al. // Fullerenes, Nanotubes and Carbon Nanostructures – 2021 – V. 29, № 5 – P. 331.

6. The low-temperature specific heat of thermal reduced graphene oxide / Sumarokov V. V., Jeżowski A., Szewczyk D., Dolbin A. V., Vinnikov N. A., Bagatskii M. I. // Low Temp. Phys. – 2020 – V. 46, № 3 – P. 301.
7. The low-temperature specific heat of MWCNTs / Sumarokov V. V., Jeżowski A., Szewczyk D., Bagatski M. I., Barabashko M. S., et al. // Low Temp. Phys. – 2019 – V. 45, № 3 – P. 347.
8. The thermal diffusivity of molecular cryocrystals / V.V. Sumarokov, A. Jeżowski, P. Stachowiak, Yu.A. Freiman // Low Temp. Phys. – 2019 – V. 45, № 3 – P. 391.