

Ibragimkhan Kamilovich Kamilov (on his 90th birthday)

DOI: <https://doi.org/10.3367/UFNe.2025.12.040067>

Ibragimkhan Kamilovich Kamilov turned 90 on November 20, 2025, 70 years of which he has devoted to science and education! I.K. Kamilov is an outstanding Russian physicist, corresponding member of the Russian Academy of Science (RAS), and honored scientist of the Russian Federation and the Republic of Dagestan, whose many-year fruitful activity had a significant impact on the development of Russian science and education, strengthening the country's scientific and technical potential. I.K. Kamilov has special labor services to the state and people, associated with achieving outstanding results in the following areas.

He has made an outstanding contribution to the development of fundamental science.

He is the author of pioneering studies in the physics of phase transitions and critical phenomena and studies that opened a new chapter of modern magnetism.

For the first time in the world, he derived a complete experimental proof of the modern theory of critical phenomena and established the fact of the existence of the critical solid state.

He has put forward ideas that laid the foundation for the use of fundamentally new methods in semiconductor electronics. New order-chaos-order scenarios were established in electron-hole plasmas of semiconductors.

He is the author and co-author of nearly 1000 scientific papers, including monographs used as textbooks at several institutes in the country. Over 260 of his papers have been published abroad.

He has contributed to an unprecedented increase in scientific publications and the number of defended theses at the Dagestan Research Center. Under his personal supervision, 38 doctors and candidates of sciences have been trained.

He is the founder and permanent head of the world-renowned scientific school on the physics of phase transitions, approved by the Grants Council of the President of the Russian Federation.

Kamilov's works have consistently contributed to the growing authority of Russian science in the world and, under his leadership, the Institute of Physics of the Dagestan Research Center became one of the world's leading centers of the physics of phase transitions and critical phenomena.

I.K. Kamilov has done a great deal for the preservation and development of scientific institutions.

I.K. Kamilov studied in the postgraduate and doctoral programs at Lomonosov Moscow State University (MSU).

He successfully headed the Institute of Physics for 26 years and the Presidium of the Dagestan Research Center of RAS for 11 years, was vice-rector for five years, and for 20 years headed a department at Dagestan State University (DSU), bringing them to a qualitatively new scientific level.



Ibragimkhan Kamilovich Kamilov

I.K. Kamilov made a significant contribution to the social development of the Dagestan Research Center, resolving housing and other pressing social issues for employees. Thanks to competitive grants, employees' salaries grew annually.

Having taken charge of the Institute of Physics, which was on the verge of closure, Kamilov fought for it, and in a short period of time turned it into one of the leading institutes in the RAS.

In 1998, he took over the leadership of Dagestan Research Center and in a short period of time managed to ameliorate the consequences of a devastating fire that had previously occurred in the center's main building, which housed several institutes and the presidium's office. Thanks to his active efforts, assistance was provided by the Republic of Dagestan, the Russian Academy of Sciences, relevant ministries, and scientific foundations.

On his initiative and with his direct participation, a new modern building for the Institute of Physics was built, a major overhaul of all buildings of the Research Center was

carried out, and, under a program of the Ministry of Higher Education of RSFSR, an interuniversity laboratory building was constructed on the territory of the university.

By attracting extra-budgetary funding, he ensured that Dagestan Research Center scientists could present talks at scientific events in more than fifty countries around the world.

He demonstrated the highest adherence to principles and perseverance while waging a difficult struggle to preserve the territorial integrity of the Dagestan Research Center.

I.K. Kamilov is not only a prominent scientist, renowned in the country and the world, but also a talented organizer of science and education. He founded dozens of new departments, chairs, and laboratories (33 in total), including the Analytical Center for Collective Use, the Department of Mathematics and Informatics, and the High Technology Center.

He created a unique system of continuous training for personnel—from the preschool center, physics and technology lyceum, basic departments, and double-submission laboratories at institutes to postgraduate and doctoral courses.

He has been actively involved in the implementation of scientific advances. He holds over 26 patents and author's certificates, including those for defense purposes.

He has initiated publication of collections of innovative projects.

He has been actively engaged in social and educational activities.

I.K. Kamilov has profoundly served the public not only within RAS and the Dagestan government, but also beyond. He was a member of the Council of Elders under the Head of the Republic of Dagestan.

I.K. Kamilov was an initiator and organizer of international conferences and seminars (more than 24) on the physics of phase transitions and critical phenomena with the participation of outstanding domestic and foreign scientists. He has been a permanent chair of their organizing committees.

I.K. Kamilov was one of the founders of Makhachkala physical and technical lyceums.

He is a popularizer of science. He was among the authorities of the Russian Physical Society.

In the 1990s, he headed for a short time the Dagestan Branch of the Znanie Society.

I.K. Kamilov promoted the construction of a new building of a secondary school and a gymnasium in his native high-mountain hamlet.

He was awarded the title of Honorary Citizen of the city of Makhachkala, Gunibsky region and a number of villages, as well as the gold medal, People's Hero of Dagestan.

I.K. Kamilov has received state and international recognition.

He has been awarded orders, medals, and honorary diplomas of union and regional significance.

For outstanding work in physics, he was awarded the A.G. Stoletov Prize of RAS.

In 2024, Russian President Vladimir Vladimirovich Putin awarded I.K. Kamilov a commendation “for his services to the development of Russian science and fruitful work.”

His reports have been presented at all scientific centers across the country. He has given invited scientific talks at major scientific conferences in fourteen countries.

He is a member of the American, British, and other physical societies. His name appears in monographs and textbooks on the history of modern Dagestan.

Through his titanic labor, Ibragimkhan Kamilovich Kamilov has embodied the ideals of service to the Fatherland, science, and education throughout his life. His long activity, marked by outstanding scientific discoveries, large-scale organizational achievements, and an active civic position has brought significant benefits to the Russian Federation by strengthening its scientific sovereignty and international prestige. His exceptional dedication to science, his professionalism, patriotism, and considerate and compassionate attitude toward others serve as a model for the young generation of scientists and citizens of the country.

*A.M. Aliiev, A.B. Batdalov, A.A. Levchenko,
G.A. Mesyats, M.M. Mutalipov, N.V. Mushnikov,
S.M. Rasulov, O.V. Rudenko,
A.I. Smirnov, D.R. Khokhlov*