

Mahammad Baba Babanly

*Corresponding-member of Azerbaijan NAS,
Executive Director of Institute of Catalysis and Inorganic Chemistry
named after acad.M.Nagiyev, Azerbaijan National Academy of Sciences,
Organizing Committee Member of International Freik Conference on Physics
and Technology of Thin Films and Nanosystem,
Member of Editorial Board of the scientific journal
“Physics and Chemistry of Solid State”*



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Dear Prof. Mahammad Baba Babanly!

Sincerely congratulate you on your birthday!
Wish you happiness, further success in scientific endeavors,
daily affairs, bold plans and hopes.
And, destiny enrich you with life wisdom, energy, inspiration and joy of the present!

Editorial Board

Mahammad Baba Babanly

Mahammad Baba Babanly was born on January 22, 1952, in a family of teachers.

In 1973, he was graduated with honors from the Faculty of Chemistry of the Azerbaijan State University (present Baku State University). He did his PhD studies in 1974-1977.

M.Babanly received degrees of PhD in Chemistry (Belarusian State University) in 1977, and Doctor of Sciences in Chemistry (Moscow State University) in 1988, and a title of Professor in 1990.

In 2014, he was elected a corresponding member of ANAS.

He started his career at Baku State University and worked as a junior researcher, senior researcher, associate professor, professor, deputy dean, head of the department, vice-rector and scientific secretary at different periods. In 2014-2021 he worked as a Deputy Director for Scientific Affairs of the Institute of Catalysis and Inorganic Chemistry named after academician M. Nagiyev of ANAS, since August 2021 he is an executive director of that institute. He is also the scientific director of the international laboratory "Advanced Materials for Quantum Computing and Spintronics", established in 2015 in collaboration with the Donostia International Physics Center in Spain.

M.Babanly is a distinguished expert in the field of chemistry, thermodynamics, and materials science of complex inorganic systems possessing functional properties. He proposed a new rational approach to the complex study of phase equilibria and thermodynamic properties of multicomponent inorganic systems, developed and widely implemented its theoretical and methodological aspects. As a result of a systematic fundamental research, he discovered new classes of compounds and non-stoichiometric phases of practical importance as promising semiconductor, topological insulator, thermoelectric, photoelectric, superionic conductor and other functional materials and developed scientific basis for their directional synthesis.

M.Babanly is an author of more than 1000 scientific works, including 4 monographs, 12 textbooks and teaching aids for universities, more than 550 articles, and 5 patents. More than 300 articles in international peer-reviewed scientific journals included in WEB of science platform and Scopus database systems, including high-impact factor journals as Nature, Nature Communications, ASC Nano, Nano Letters, Quantum materials, Physical Review Letters, Physical Review B, Scientific Review, Solid State Chemistry, Journal of Alloys and Compounds, Journal of Thermal Analysis and Calorimetry et al.

Indicators in scientific databases (October 2021):

Scopus: h-index – 21, number of references to his works – 2197;

Researchgate: RG Score – 40.80, h-index – 22, number of citations – 2728;

Google Scholar: h-index – 36, i10 - index – 109, number of citations – 4668.

M.Babanly's research projects have been awarded a number of international and national grants.

M.Babanly works efficiently in the field of training scientific personnel. He has supervised 35 PhD students and 2 doctors of chemical sciences. There are citizens of Syria, Vietnam, Korea, Iran, and Afghanistan among the scientists he has supervised.

He takes an active part in the scientific and social life of our Republic. Over the years, he was a member, deputy chairman, and chairman of the Expert Council on Chemistry of the Supreme Attestation Commission under the President of the Republic of Azerbaijan, a member of the Scientific Council of BSU, and a number of Dissertation Councils. He is currently the member of the editorial board of the journals of "Azerbaijan Chemistry Journal", "Russian Journal of Inorganic Chemistry", "Turkish Journal of Chemistry", "Condensed Matter and Interphases", "Physics and Chemistry of Solid State", "New Materials, Compounds and Applications" and "Chemical Problems" which are included in the WEB of science and Scopus platforms.

He is a corresponding member of the Russian Academy of Natural Sciences, a full member of the Lutfizade Academy of Sciences.

In 2000, he was awarded a medal of "Tereggi" by the decree of the President of the Republic of Azerbaijan. In 2011, he was awarded a prize and a diploma by the Presidium of the Russian Academy of Sciences for a series of scientific works published in the journals of the RAS.

In 2016, he was awarded a special prize by Thomson Reuters for the most cited "Outstanding scholarly article".

In 2016, he won the "Scientist of the Year" competition held by the Science Development Foundation under the President of the Republic of Azerbaijan.

He was awarded diplomas by the Russian Journal of Inorganic Chemistry as the winner of the most cited articles in 2019 and 2020.

For scientific achievements, he was repeatedly awarded Honorary Diplomas of the Ministry of Education of the Republic of Azerbaijan, the chemistry department of ANAS, and the rector of BSU.

We cordially congratulate Professor Mahammad Babanly on his 70th anniversary and wish him good health, success and new achievements in his future endeavors.

Friends, colleagues.