

Yuriy Kholin

Affiliation and address: V.N. Karazin Kharkiv National University, Svoboda Square 4, Kharkiv, 61077 Ukraine

Born: 1962 in Kharkiv, Ukraine

Citizenship: Ukraine

Degrees

1984: Master of Science (analytical chemistry, honored) at Kharkiv State University,

1987: Candidate of Sciences (Ph.D.) (physical chemistry) at Kharkiv State University. Doctoral thesis "Calculation of equilibria, determination of composition and stability of complexes in solutions with reactions of arbitrary stoichiometry",

2000: Doctor of Chemical Sciences (physical chemistry) at V.N. Karazin Kharkiv National University. Habilitation thesis "Quantitative physicochemical analysis of complexation in solutions and on the surface of complexing silicas"),

2003: Full Professor.

Professional Appointments

2004 – present Pro-rector for Research and Educational Work of V.N. Karazin Kharkiv National University

2001– present Professor, Head of Materials Chemistry Department, V.N. Karazin Kharkiv National University

1991– 2001 Associate Professor, Department of Technical Chemistry, Kharkiv State University

1988-1991 Senior Research Fellow, Research Institute of Chemistry of Kharkiv State University.

Awards and Honors

- Honored Worker of Science and Technology of Ukraine (State award, 2009);
- State Prize of Ukraine in Science and Technology (2007);
- The International Science Foundation grants (1993, 1996, 1997);
- Award from the International Science Education Program (USA-Ukraine) (1998-1999);
- Award "The best Professor of Kharkiv University" (1999);
- Medals and diplomas from the Ministry of Education and Science of Ukraine (1994, 1998, 2004, 2005).

Research interests:

- silica-organic hybrid materials;
- qualitative chemical analysis;
- quantitative physicochemical analysis (thermodynamics and kinetics of chemisorption; complicated equilibria in homo- and heterogeneous systems);
- data analysis in chemistry and chemometrics (robust regression, ill-posed problems, cluster analysis, fuzzy sets theory);
- chemical education.

Some international and domestic research grants:

- Theoretical approaches and computer technologies for analyzing physical and chemical properties of low-dimensional structures (2004-2006);
- Control of chemical equilibria in heterogeneous and micro-heterogeneous media for the development of test and hybrid analytical procedures (2003-2005);
- Quantitative characteristics of complexation equilibria in heterogeneous and micro-heterogeneous media (2000-2002);

- Physicochemical properties and analytical employment of ion-exchangers and sorbents (1997-1999);
- Novel bonded oxides for chemical sensors development (INTAS, 1994-1997).

Some Lecture Courses

- Chemical Informatics and Chemometrics (B.Sc.),
- Quantitative Physico-Chemical Analysis (M.Sc.),
- Chemical Thermodynamics of Polymer Solutions (B.Sc.),
- High-Molecular Compounds (B.Sc.),
- Ecology (B.Sc.).

Publications

Overall: 4 monographs, 13 textbooks and more than 130 scientific articles

Guided Ph. D. Theses

Sergiy Myerniy, 1997, Kharkiv,

Dmytriy Konyaev, 2000, Kharkiv,

Herica Magosso, 2008, Campinas, Brazil (together with Prof. Yoshitaka Gushikem),

Inna Khristenko, 2008, Kharkiv,

Anton Panteleimonov, 2009, Kharkiv.

Ph. D. Students

Sergiy Korneev (physical chemistry),

Andriy Baraban (physical chemistry),

Yaroslava Krasnyanchyn (analytical chemistry).

Other activity:

- member of the Analytical Chemistry Council of the National Academy of Sciences of Ukraine;
- member of the Inorganic Chemistry Council of the National Academy of Sciences of Ukraine;
- member of Counsel for awarding scientific degrees at V.N. Karazin Kharkiv National University;
- head of jury of the Ukrainian Chemistry Olympiad;
- magazine "UNIVERSITATES. Science and Education", editor-in-chief.