

Zholt Kormosh

Professor, Head of Analytical Chemistry and Eco-technology Department of Lesya Ukrainka Eastern European National University, Ukraine



Data of Birth: 25.11.1971

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Education: THE RESUME

Born 25.11.71 in Zakarpatye (Ukraine). Two children.

In 1993 finished the Department of Chemistry of the Uzhgorod State University on a speciality «The Chemist. The teacher of chemistry».

In 1993 - laboratory assistant, 1994 – 1995 engineer, 1996 – 2000 manager by laboratories of Department of Analytical Chemistry of the Uzhgorod State University (1993 – 1997 the post-graduate student). In 2000 has defended candidate theses (O.V. Bogatski Physicochemical Institute of NAS of Ukraine, Odesa) on a speciality «Analytical Chemistry».

Since: 2001 – the assistant, 1990 – senior teacher, 2002 – associated professor, 2005 – chairman, 2007 – professor of Analytical Chemistry Department of the Lesya Ukrainka Volyn (Eastern European) National University,

Fields of scientific interest are: development of new physico-chemical methods of analysis, ion-selective electrode, sensors, and analysis of high-purity semi conducting materials, analysis of environment, biological objects and pharmaceuticals.

The author of more than 350 scientific publications in *Electroanalysis*, *Materials Science and Engineering C*, *Journal of Analytical Chemistry*, *Central European Journal of Chemistry*, *Acta Poloniae Pharmaceutica – Drug Research*, *J. Chinese Chem. Society*, *Chinese Chemical Letters*, *Anal. Bioanal. Electrochem.*, *Models in Chemistry*, *Acta Chim. Slov.*, *Factory Laboratory*, *Ukrainian Chemical Journal*, *Chemistry and Technology of Water etc.*), the holder of 33 patents for the inventions. In numerous scientific conferences (Belorussia, Italy, Hungary, Russia, Ukraine and Slovak Republic) has been participated.

Supervisor of scientific work of M.S. and post-graduate students. The pedagogical experience - 21 years. I read the courses for the students of chemical and biological departments: “Analytical Chemistry”, “Theoretical Fundamentals of Analytical Chemistry”, “Physico-Chemical Methods of Analysis”, “Extraction in

Analytical Chemistry” “Ionic associates in Analytical Chemistry”, “Methods of Separation and Concentration”, “The Search and Treatment of Scientific Information”.

Professional Career:

Born 25.11.71 in Zakarpatye (Ukraine). In 1993 finished the Department of Chemistry of the Uzhgorod State University on a speciality «The Chemist. The teacher of chemistry».

In 1993 - laboratory assistant, 1994 – 1995 engineer, 1996 – 2000 manager by laboratories of Department of Analytical Chemistry of the Uzhgorod State University (1993 – 1997 the post-graduate student). In 2000 has defended candidate theses (O.V. Bogatski Physicochemical Institute of NAS of Ukraine, Odessa) on a speciality «Analytical Chemistry».

Since:

2001, the assistant, 1990 - senior teacher, 2002 – associated professor, 2005 – chairman, 2007 - professor of Analytical Chemistry Department, 2009-2010 – Dean of the Chemistry Faculty of the Lesya Ukrainka Volyn National University, 2012 - Professor, Head of Analytical Chemistry and Eco-technology Department of Lesya Ukrainka Eastern European National University (Lutsk, Ukraine).

Fields of Activity:

Grant Holder of Cabinet of Ministers of Ukraine for young scientists (2004 – 2006). Supervisor of scientific work of M.S. and post-graduate students.

The member:

- of Scientific Council on Analytical Chemistry of the Academy of Sciences (Ukraine);
- of external college Hungarian Academy of Sciences;
- of Ukrainian Chemical Society et all.

Practical Experience: Fields of scientific interest are: development of sensors in analysis, analysis of high-purity semi conducting materials, analysis of environment, biological objects and pharmaceuticals.

Publications and Patents: The author of more than 300 scientific publications (Electroanalysis, Materials Science and Engineering C., Journal of Analytical Chemistry, Models in Chemistry, Acta Chim. Slov., Zavodskaja Laboratoryja, Ukrainian Chemical Journal, Chemistry and Technology of Water *etc.*), the holder of 34 patents for the inventions. Participated in numerous scientific conferences (Belorussia, Hungary, Russia, Ukraine and Slovak Republic).

Languages: Hungarian, Russian, Ukrainian, English.

Supervisor of PhD student (Theses)

1. Hunka I.P. The chemical and analytical properties of the ion associates of diclofenac, indomethacin, ketoprofen and piroksykamu with basic dyes (2008).
2. Korolchuk S.I. The basic dyes as analytical reagents to identify the forms of Os (IV, VI, VIII) and Ru (VI) (2009).
3. Savchuk T.I. The ion associates triiodide-, iodinebromide- and pentaclorphenolat-ions with basic dyes and their analytical application (2012).

Selected PUBLICATIONS

1. Kormosh Zh, Bazel Ya., Balogh J. Peculiarities of extraction of some ion-pairs oxianions with basic polymethine dyes and their analytical application// Acta Chimica Hungarica Models in Chemistry. -1999.-V.136,-№4.-pp. 421-429.
2. Kormosh Zh., Bazel Ya., Tolmachov A. The state and chemical-analytical properties of certain polymethine dyes in aqueous solutions // Acta Chim.Slov.-2002.-V.49.-P.795-804.
3. Kormosh Zh., Bazel Ya., Tolmachov A. The state and chemical-analytical properties of certain polymethine dyes in aqueous solutions // Acta Chim.Slov.-2002.-V.49.-P.795-804.
4. A.V. Laganovsky, Z.O. Kormosh, V.P. Sachanyuk, O.V. Parasyuk Quaternary tiospinel CuCrTiS₄ for solid-state ion selective electrode for the measurement of Cu²⁺// Materials Science and Engineering C. – 2007. – V. 28. – P.1112 -1116.
5. Zh. Kormosh, I. Hunka, Ya. Bazel, N. Kormosh, A. Laganovsky, I. Mazurenko. Determination of diclofenac in pharmaceuticals and urine samples using a membrane sensor based on ion associate of diclofenac with Rhodamine B // Central European Journal of Chemistry. - 2007. - Vol. 5, № 3. - P. 813-823.
6. Kormosh Zh. Potentiometric determination of diclofenac in pharmaceutical formulation by membrane electrode based on ion associate with base dye / Zh. Kormosh, I. Hunka, Ya. Bazel // Chinese Chemical Letters. - 2007. - Vol. 18, № 9. - P. 103-106.
7. Zh. Kormosh, I. Hunka, Ya. Bazel, N. Kormosh, A. Laganovsky, I. Mazurenko. A new diclofenac membrane sensor based on its ion associate with crystal violet. Application to diclofenac determination in urine and pharmaceuticals // Journal of the Iranian Chemical Society. - 2007. - Vol. 4, № 4. - P. 408-413.
8. Zh. Kormosh, S. Korolchuk. 2-(4-Diethylaminostyryl)-1,3,3-trimethyl-5-thiocyanato-2,3-dihydroindole as a new reagent for the spectrophotometric red-ox determination of Osmium (VI) // Polish Journal of Chemical Technologi. – 2008. – V. 10. – № 2. – P. 17 –19.
9. Zh. Kormosh, S. Korolchuk New reagent for indirect spectrophotometric red-ox determination of Osmium (VI) // Chinese Chemical Letters. – 2008. – V. 19.– № 6. – P. 716–719.
10. Zh. Kormosh, I. Hunka, Ya. Bazel. Extraction and spectrophotometric determination of diclofenac in pharmaceuticals // Journal of the Chinese Chemical Society. - 2008. - Vol. 55. - P. 356-361.
11. Zh. Kormosh, I. Hunka, Ya. Bazel. Preparation and characterization of a diclofenac sensitive electrode based on a PVC matrix membrane // Acta Chimica Slovenica. - 2008. - Vol. 55, № 2. - P. 261-267.
12. R. Serbin, Ya.R. Bazel, M. Torok, J. Havel, I. S. Balogh, Zh. O. Kormosh, G. Holeczyova, V. Andruch. Investigation of the reaction of gold(III) with 2-[2-(4-Dimethylamino-phenyl)-

- vinyl]-1,3,3-trimethyl-3H-indolium. Application for determination of gold // *Journal of the Chinese Chemical Society* – 2009. – V. 56. – P. 1168-174.
13. A.V. Laganovsky, Zh.O. Kormosh, A.O. Fedorchuk, V.P. Sachanyuk, O.V. Parasyuk. AgCrTiS₄. Synthesis, properties and analytical application // *Metallurgical and Materials Transactions B.* – 2008. – V. 39B. – P. 155 – 159.
 14. Kormosh Zh., Hunka I., Bazel Ya. Spectrophotometric determination of ketoprofen and its application in pharmaceutical analysis // *Acta Poloniae Pharmaceutica - Drug Research.* – 2009. – Vol. 66, No.1. – P.3-9.
 15. Kormosh Zh., Hunka I., Bazel Y. Potentiometric sensor for the indomethacin determination // *Materials Science and Engineering C.* – 2009. – Vol. 29. – P.1018–1022.
 16. Y. Bazel, I. Hunka, Zh.Kormosh, V.Andruch. Spectrophotometric determination of [2-(2,6-dichloro-phenylamino)-phenyl]-acetic acid in pure form and in pharmaceuticals // *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy.* – 2009. – V. 74. – P. 1209-1214.
 17. Kormosh Zh., Hunka I. Preparation and Study of a Diclofenac Selective Membrane Electrode // *Analytical & Bioanalytical Electrochemistry.* – 2009. – Vol. 1, No. 1, – P. 27 - 37.
 18. Zholt Kormosh, Iryna Hunka, Yaroslav Bazel, Oksana Matviychuk. Potentiometric determination of ketoprofen and piroxicam at a new PVC electrode based on ion associates of Rhodamine 6G // *Materials Science and Engineering C.* – 2010. – 30. –P. 997–1002.
 19. Iryna Antal, Zholt Kormosh, Yaroslav Bazel, Svitlana Lysenko, Natalya Kormosh. Design of a Vitamin B₁-Selective Electrode Based on an Ion-Pair and Its Application to Pharmaceutical Analysis // *Electroanalysis.* – 2010. – V. 22, No. 22. – P. 2714 – 2719.
 20. Zh. Kormosh, T. Savchuk, Ya. Bazel, S. Korolchuk, A. Gech. An electrode immobilized in graphite matrix with ion pair complex for the determination of pentachlorophenol // *Anal. Bioanal. Electrochem.* – 2011. – Vol. 3, № 1. – P. 51-58.
 21. Zh. Kormosh, A. Fedorchuk, K. Wojciechowski, N. Tataryn, O. Parasyuk. The Cu₂FeTi₃S₈ and Cu₂FeZr₃S₈ compounds: crystal structure and electroanalytical application // *Materials Sci. and Engineering C.* – 2011. – V. 31, № 3. – P. 540-544.
 22. Zh. Kormosh, T. Savchuk, S. Korolchuk, Ya. Bazel. Design and application of triiodide-selective membrane electrode // *Electroanalysis.* – 2011. – V. 23, № 9. – P. 2144-2147.
 23. Kormosh Zh., Savchuk T. New potentiometric sensor for the determination of iodine species // *Materials Sci. and Engineering C.* – 2012. – V. 32, № 8. – P. 2286-2291.
 24. Antal I.P, Bazel Ya.R., Kormosh Zh.A. Electrochemical methods for determining group B vitamins // *Journal of Analytical Chemistry.* – 2013. – Vol. 68, № 7. – P. 628-639.
 25. Zh. Kormosh, O. Matviichuk. Potentiometric determination of mefenamic acid in pharmaceutical formulation by membrane sensor based on ion-pair with basic dye // *Chinese Chemicals Letters.* – 2013. – Vol. 24. – P. 315–317.
 26. Kormosh Zh. A., Savchuk T. I., Bazel Ya. R. The potentiometric sensor for determination of pentachlorophenol in Water // *Journal of water chemistry and technology.* – 2013. – № 32. – P. 2286 – 2291.
 27. Ya. R. Bazel, I. P. Antal, V. M. Lavra, Zh. A. Kormosh. Methods for the Determination of Anionic Surfactants // *Journal of Analytical Chemistry.* – 2014. – Vol. 69, No. 3, – pp. 211–236.
 28. Kormosh Zh. A., Savchuk T. I., Bazel Ya. R., Kormosh N., Zyma S. Potentiometric sensor for the determination of povidone-iodine // *Anal. Bioanal. Electrochem.* – 2014. – Vol. 6, № 3. – P. 367 – 378.
 29. Zh. A. Kormosh, O. Yu. Matviichuk, and Ya. R. Bazel. Extraction-spectrophotometric determination of mefenamic acid in pharmaceutical preparations // *Journal of Analytical Chemistry.* – 2014. – Vol. 69, No. 10. – pp. 960–964.
 30. N. Zubenia, Zh. Kormosh, D. Semenyshyn, V. Kochubei, S. Korolchuk, T. Savchuk. Design and application of levamisole-selective membrane sensor // *Anal. Bioanal. Electrochem.* – 2016. – Vol. 8, № 4. – P. 466-477.