

Curriculum Vitae

1. Family name: Nikitina

First name: Nataliia

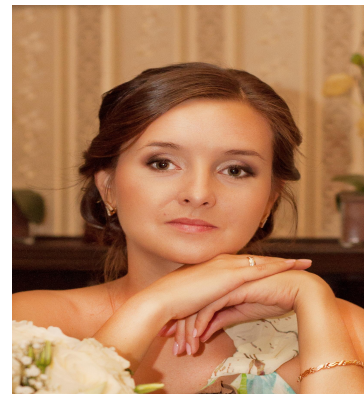
Present position

Associate professor,
Department of Chemical Metrology
V.N. Karazin Kharkov National University

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2. Personal data

Date and place of birth: May 07, 1980; Rybinsk, Yaroslavl region, Russia

Residence: Kharkov, Ukraine.

Marital status: married, one child

3. Education

1997- 2002 – V.N. Karazin Kharkiv National University, student, specialization at the Department of Chemical Metrology. Main subjects studied: analytical chemistry, organic chemistry, inorganic chemistry, physical and colloid chemistry, parameters of equilibrium, multicomponent analysis.

2002-2005 – V.N. Karazin Kharkiv National University, Ph. D. student, Department of Chemical Metrology.

4. Qualification

2002 – Master of chemistry at the V.N. Karazin Kharkiv National University, advisor – Ph. D. Elena. A. Reshetnyak Ph. D. thesis: *“The evaluation of metrological characteristics of test-determinations on the basis of reagent indicator paper”*

2006 – Ph. D. in analytical chemistry at the V.N. Karazin Kharkiv National University, advisor – Ph. D. Elena. A. Reshetnyak Ph. D. thesis: *“Test-methods of chemical analysis with visual indication: metrological assurance, new test-systems”*.

5. Employment

2006- 2010 **Senior Lecturer, Researcher** at the Department of Chemical Metrology

2010- till now **Associate professor**, Department of Chemical Metrology
V.N. Karazin Kharkiv National University

6. Subjects read at the V.N. Karazin Kharkiv National University

Analytical chemistry

Ecological analytical chemistry

Ionic equilibrium in organized solutions

Medical chemistry (in English)

7. Research interests

test-analysis: creation of new test-systems for environmental contaminations control; estimation of metrological performance of test-methods techniques with visual indication (detection and determination limits, selectivity, errors of determination); colour scales.

equilibria investigation: complex formation, complex stability, composition of

complex in homo and heterogeneous medium; protolytic equilibria in heterogeneous and self-organized medium.

8. Used methods of experimental work

Electrochemistry, spectrophotometry, titrimetry.

9. Bachelor and master thesis advisement

More than 20.

11. Awards and Scholarships

- Scholarship named N. Beketov to young scientists from Kharkiv Regional public administration, 2007.
- Research grant from Fund of fundamental, applied and searching research works of V.N. Karazin Kharkiv National University, Supervisor of the project: "Instrumentalization of quantitative determinations in test analysis and thin layer chromatography and chromaticity of multitests" (2007).

12. Participation in research works supported by Ministry of Sciences and Education of Ukraine

- Control of chemical equilibria in heterogeneous and microheterogeneous media promising for test and hybrid methods of analysis (No. 0103U004212) (2003-2005).
- Control of processes at the interface and optimizations of experimental conditions in hybrid methods of analysis (No. 0106U003109) (2006-2008).
- Chemometrics grounds of structure-retention-property relationships (No. 0107U000659) (2009);
- Nanostructured silica and organosilica materials for chromatography and test analysis (No. 0109U001310) (2010).

13. Most important publications

Book

1. Yu.V. Kholin, N.A. Nikitina, A.V. Panteleimonov, E.A. Reshetnyak, A.A. Bugaevskii, L.P. Loginova, Metrological characteristics of detection procedure with binary response. – Kharkov: Timchenko, 2008. 128 p.

Articles (h-index 4 by SCOPUS)

1. E.A. Reshetnyak, V.N. Shevchenko, N.M. Lysak, N.A. Nikitina. Verification of the analytical signal additivity for the spectrophotometric determination of the total content of Cu(II), Co(II), Ni(II), Pb(II), Zn(II) using indicator films // Kharkov University Bulletin – 2018. Chemical Series. Issue 30 (53). – P. 67-78. 10.26565/2220-637X-2018-30-07
2. O.Yu. Konovalova, N.A. Nikitina, E.A. Reshetnyak, T. B. Pochinok, P.V. Anisimovich, N.V. Ivchenko. Solvatochromic and protolytic properties of the indicators in the solidified gelatin gel medium // Colloids and Surfaces A: Physicochemical and Engineering Aspects. 2017 Vol. 529. 20 September, P. 26-32. DOI 10.1016/j.colsurfa.2017.05.035.
3. E.A. Reshetnyak, O.S. Chernyshova, N.A. Nikitina, L.P. Loginova, N.O. Mchedlov-Petrosyan Activity coefficients of alkyl sulfate and alkylsulfonate ions in aqueous and water-salt premicellar solutions. Colloid J. 2014. Vol. 76. No. 3. P. 358-365.]. doi: 10.7868/S0023291214030136.
4. E.A. Reshetnyak, V.N. Shevchenko, N.A. Nikitina, V.M. Ostrovskaya, Ya.A. Bondarenko, Yu.V. Kholin. Testing of analytical signal additivity at

- determination of sum of metals with the use of solid phase-reagents // Methods and objects of chemical analysis – 2013. – Vol. 8. № 1. – P. 14-23.
5. E.A. Reshetnyak, N.V. Ivchenko, N.A. Nikitina, T.B. Pochinok. Indicator films based on gelatin gel for determination of Co(II), Cu(II), Pb(II), Cd(II), Ni(II), Zn(II), Fe(III), Al(III), Ba(II), Sr(II) AND SO_4^{2-} // Methods and objects of chemical analysis – 2012. – Vol. 7. № 4. – P. 192-201.
 6. E.A. Reshetnyak, N.A. Nikitina, N. V. Svetlova, N.O. Mchedlov-Petrosyan Protolytic properties of dyes embedded in gelatin films J. Braz. Chem. Soc., Vol. 22, No. 5, 857-866, 2011.
 7. A.V. Panteleimonov, N.A. Nikitina, E.A. Reshetnyak, L.P. Loginova, A.A. Bugaevskii, Yu.V. Kholin Binary response procedures of qualitative analysis: metrological characteristics and calculation aspects // Methods and objects of chemical analysis – 2008. – Vol. 3. № 2. – P. 128-146.
 8. V. M. Ostrovskaya, A. V. Tsygankov, O. A. Prokopenko, A. K. Buryak, E. A. Reshetnyak and N. A. Nikitina Determination of nitrite ions using test strips based on 3-hydroxy-7,8-benzo-1,2,3,4-terahydroquinoline // Journal of analytical chemistry – 2008. – Vol. 63. № 8. – P. 792-798. (Translated from Zhurn. Analyt. Khimii. – 2008. – Vol. 63. № 8. – P. 866-872).
 9. Reshetnyak E.A., Nikitina N.A., Loginova L.P., Ostrovskaya V.M. Limit of detection in test methods of analysis with visual indication: affecting factors //Journal of analytical chemistry – 2005. – Vol. 60. № 10. – P. 982-989. (Translated from Zhurn. Analyt. Khimii. – 2005. – Vol. 60. № 10. – P. 1102-1109).
 10. E.A. Reshetnyak, N.A. Nikitina, L.P. Loginova, N.O. Mchedlov-Petrosyan, N.V. Svetlova The protolytic and complex forming properties of indicators in the gelatinous gel medium // Kharkov University Bulletin – 2005. – №669. Chemical Series. Issue 13 (36). – P. 67-82.
 11. V.M. Ostrovskaya, E.A. Reshetnyak, N.A. Nikitina, A.V. Panteleimonov, Yu.V. Kholin A Test Method for Determining Total Metals with an Indicator Paper and Its Performance Characteristics // J. Anal. Chem. – 2004. – Vol. 59. № 10. – P. 995-1001 (Translated from Zhurn. Analyt. Khimii. – 2004. – Vol. 59. № 10. – P. 1101-1108).
 12. E.A. Reshetnyak, N.A. Nikitina, Yu.V. Kholin, N.V. Svetlova, V.M. Ostrovskaya Metrological characteristics in test-analysis: reliable estimates // Kharkov University Bulletin – 2003. – №596. Chemical Series. Issue 10 (33). – P. 90-98.

14. Language ability

Russian and Ukrainian – native;

English – B2

15. Permanent private address

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