

ALEXANDER Y. NAZARENKO

Curriculum Vitae

Address:	Office: Chemistry Department State University of New York College at Buffalo Buffalo, New York 14222-1095	Home: Buffalo, New York 14221
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Education:

M.S. Chemistry, Kiev State University, Ukraine, 1975; graduated with honors

Ph.D. Analytical Chemistry, Kiev State University, Ukraine, 1978

D.Sc. Analytical Chemistry, A. Bogatski Physico-Chemical Institute,
National Academy of Sciences, Odessa, Ukraine, 1993

Professional Experience:

Researcher, Kiev State University, 1978-1980

Assistant Professor of Chemistry, Taras Shevchenko University, 1980-1988
Teaching General and Analytical Chemistry, Chemometrics, Spectroscopy, Complex
Equilibria in Solutions. Advisor for M.S. and Ph.D. graduate students. Development of
separation procedures for metal ions and organic species with further determination.

Research Scientist in Interlaboratory Program for Design and Analysis of Standard
Reference Materials, 1983-1987 High accuracy analyses of materials and data analysis.

Associate Professor of Chemistry, Taras Shevchenko University, Kiev, Ukraine -1988-
1991,1992-1995 Teaching General and Analytical Chemistry, Chemometrics,
Spectroscopy. Advisor for M.S. and Ph.D. graduate students. Participated in various
projects connected with design of analytical procedures.

Visiting Scientist: Brigham Young University, Department of Chemistry and
Biochemistry, Provo, UT (1991), IREX Stipend

Visiting Scientist: Jagellonian University, Cracow, Poland and University of Wroclaw,
Wroclaw, Poland (1994)

Scientist, Brigham Young University, Department of Chemistry and Biochemistry,
Provo, UT (NRC stipend, later INEEL University Research Consortium grant) - 1995-
1998

Structural and thermodynamic investigation of recognition processes. Study of
membrane and extraction separations of toxic metal ions. Supervising group of graduate
and undergraduate students.

Lecturer, Southern Illinois University at Carbondale, Department of Chemistry and Biochemistry -1998-2000

Teaching Instrumental Analytical Chemistry, Principles of Chemistry, Environmental Chemistry, Quantitative Analysis, Chemistry and Society. Structural investigation of recognition processes.

Assistant Professor, State University of New York, College at Buffalo, Chemistry Department - 2000-2006

Teaching Analytical Chemistry, Instrumental Analytical Chemistry, General Chemistry, Advanced Analytical Chemistry, Analytical Toxicology. Structural and thermodynamic investigation of recognition processes. Study of membrane and extraction separations of toxic species.

Associate Professor, State University of New York, College at Buffalo, Chemistry Department -since September 2006

Visiting Associate Professor, Tufts University, Medford, MA, Department of Chemistry and Biochemistry (Sabbatical Leave) -Jan 2010 – Aug 2010

Courses taught (1998-2018):

Undergraduate:

Instrumental Analytical Chemistry (Lecture and Laboratory)
Analytical Chemistry (Lecture and Laboratory)
Fundamentals of Chemistry I & II (Lecture and Laboratory)
Introductory General Chemistry I & II (Lecture and Laboratory)
Analytical Toxicology (Lecture and Laboratory)
Environmental Chemistry
Chemistry & Society

Graduate:

Advanced Analytical Chemistry (Lecture and Laboratory)
Environmental Chemistry
Analytical Toxicology
Group Theory & Vibration Spectroscopy
Drug Chemistry & Toxicology
Mass-spectrometry
X-ray Crystallography

All courses above are Internet-enhanced, Analytical Toxicology course has substantive undergraduate research component.

Undergraduate Students Supervised (BA & BS research, 1998-2017):

Lisken Neilson, R.J. Hansen, Oliver Levi, Lisa Brown, Angela Brandt, Jon Walters, Kristi Tyall, Ryan Heary, Lori Mehnert, Thomas Hohle, Nathan Lindh, Jennifer Shemansky, Jason Zajac, Brittany Gipple, Julia Wald, Margo Weber, Eric Gauchat

Graduate Students Supervised (completed Ph.D. in Chemistry):

Aleksyuk N.P. (1984), Voloshin Y.Z. (1988), Vetyutneva N.A. (1991, Pharmaceutical Chemistry), Kronikovskii O.I. (1992)

Areas of Scientific Interest:

- Analytical and environmental applications of ion, molecular, and chiral recognition. Membrane transport and determination of metal ions.
- Separations using complexes with macrocyclic & polydentate ligands. Structure and properties of these complexes.
- X-ray crystallography of organic and metal-organic compounds
- Analytical instrumentation, data analysis, and chemical teaching expert systems

Funded Grants (2000-):

Merck/AAAS Undergraduate Research Program “Interdisciplinary Research Program in Biotechnology and Forensic Chemistry” (Co PI’s: D. Easton, M.S. Goodman, H. Isseroff, G. Wadsworth, A. McMillan, K.A.Bagley, and T. White); 2003-2006

National Science Foundation, “CCLI: Development of a Problem-Based Forensic Chemistry Laboratory”, 2002-2006 (Co PI’s: Z. Al-Saigh, M.S. Goodman, K. Jonmaire)

OceanOptics Inc. “Raman Spectrometer in Forensic Chemistry Curriculum”, 2004-2005

2012-13 Innovative Instruction and Academic Excellence Program, “Laboratory Instructional Management System”

2013-14 Innovative Instruction and Academic Excellence Program “A Virtual Instrumental Analysis Laboratory (VIAL) for Buffalo State and Open SUNY” (co-PI)

Financial support for participation in the NSF Workshop on Forensic Chemistry, 2002, 2007 & 2011 Buffalo State College internal grants

Numerous instrumentation and software donations for instrumental analysis laboratory (among others, Pfizer, Bristol-Myers, Thermo, Agilent, Bruker)

Campus and Professional Service:

- Chemistry Department, Budget and Inventory Committee chair (2001-2003,2005-2011)
- Chemistry Department , Assessment Committee chair (2003-2008)
- Chemistry Department, Graduate Committee (2001-2003).
- Chemistry Department, Curriculum Committee (Fall 2003-2004, Fall 2008-).

- Secretary for the department's meetings (Fall 2001-Spring 2004)
- NSS Teaching, Learning and Technology Roundtable member (2004-)

Advisor for undergraduate students in Chemistry; 2004-present

Reviewer for

Journal of Inclusion Phenomena & Macrocyclic Chemistry, Synthesis and Reactivity in Inorganic and Metal-Organic Chemistry, Industrial and Engineering Chemistry Research, Journal of Colloid and Interface Science, Acta Crystallographica C, Journal of Chemical Education, Inorganic Chemistry, Journal of Membrane Science, Spectroscopy Letters, Separation and Purification Technology, Langmuir, Crystal Growth & Design

Reviewer for several grant proposals (PRF, NSF, NCR)

Member of American Chemical Society and American Crystallographic Association

Presentations at National and International Meetings (1996-2018):

A.Y. Nazarenko Removing residual bond density in organic molecules using simplified virtual atoms: a technical note. American Crystallographic Association 68th National Meeting. Toronto, Canada, July 2018

A.Y. Nazarenko Removing residual bond density in organic molecules: a technical note Sagamore. Halifax (Canada), July 2018

A.Y. Nazarenko Structure of meldonium (3-(1,1,1-trimethylhydrazin-1-ium-2-yl)propanoate) solvates and binary compounds: an X-ray view of controversial medication. British Crystallographic Association meeting, Coventry, England, March 2018

A.Y. Nazarenko Treating residual density in organic molecules using simplified virtual atoms: a technical note. German Crystallographic Society national meeting DGK-2018. Essen, Germany, March 2018

A.Y. Nazarenko, E. Gauchat, A.R Menze, M.N. Pothier, J.P. Sinnott. Unambiguous Identification of Morphinan-Type Compounds in Various Pharmaceutical Formulations. PITTCO Orlando, FL, February 2018

A.Y. Nazarenko, M.S. Goodman, P. C. Ravines and A. N. Shugar. Polycrystalline XRD data from a single crystal instrument with CMOS detector. Pittsburgh Diffraction Conference, Indiana, PA, October 2017

A.Y. Nazarenko Teaching chemistry of crystals: emphasis on chemical features American Crystallographic Association 66th National Meeting, Denver, July 2016

A.Y. Nazarenko Positive residual density in organic molecules: can we fit it? American Crystallographic Association 66th National Meeting, Denver, July 2016

A.Y. Nazarenko Chemical crystallography: how much of it is suitable for an undergraduate class? 252nd ACS National Meeting, Philadelphia, August 2016.

A.Y. Nazarenko Crystal structures of Meldonium binary compounds. Gordon Research Conference, Stowe, VT, June 2016

A.Y. Nazarenko From your crystal to structure in ten minutes: Contemporary instruments transform undergraduate laboratory. NERM-2015, Ithaca NY, June 2015.

A.Y. Nazarenko, E.V. Rybak-Akimova Novel ruthenium (II) complexes with polythiamacrocycles 250th ACS National Meeting, Boston, MA, August 2015.

A.Y. Nazarenko X-Ray Diffraction in Forensic Chemistry Curriculum: Some Remarks from State College Laboratory American Crystallographic Association 65th National Meeting, Philadelphia, July 2015.

M. Kayser, Y. Wang, A.Y. Nazarenko, R. Belosludov, P. Kiprof, D. Blank, V.N. Nemykin Tuning non-covalent interactions between substituted subphthalocyanines with C60 and C70 fullerenes 250th ACS National Meeting, Boston, MA, August 2015.

A.Y. Nazarenko Crystallography Education for Non-science College Students. 23rd International Union of Crystallography Congress, Montreal, August 2014.

M. E. Weber, M. S. Goodman, M. A. Goodman, A. Y. Nazarenko, F. C. Yau Chiral tris(pyrazolyl)methane scorpionate ligands and their iron(II) complexes, 247th ACS National Meeting, Dallas, TX, March 2014.

A.Y. Nazarenko, V.N. Nemykin. Some Cases of Disorder Modeling in Organic and Metal-Organic Compounds. ACA 62 National Meeting, Boston, July 2012

A.Y. Nazarenko, B. Gipple Single Drop Microdiffusion – HPLC Determination of Volatile Carbonyl Compounds. PITTCO 2011, Atlanta, GA, March 2011

A.Y. Nazarenko, Chasing molecules in forensic undergraduate lab with CCD-based instrumentation. American Chemical Society National Meeting, Boston, August 2010

A.Y. Nazarenko, Headspace liquid phase microextraction. Eastern Analytical Symposium, Somerset, NJ, November 2009

A.Y. Nazarenko, Some possibilities of headspace liquid phase microextraction for molecular spectroscopy FACSS-2009, Louisville, KY, October 2009.

A.Y. Nazarenko, Spin Transitions in Ni(II) macrocyclic complexes with bulky triphenylcyanoborate ligand, 5th International Symposium on Supramolecular Systems in Chemistry & Biology, Kiev, Ukraine, May 2009.

A.Y. Nazarenko, J. Zajac. Pre-Concentration of Alcohols and Ketones by Microdiffusion in a Single Droplet of Water, PITTCO 2009, March 2009, Chicago

A.Y. Nazarenko, Liquid Phase Headspace Microextraction into a Single Drop of Water, International Conference on Solvent Extraction, Tucson, AZ, September 2008.

A.Y. Nazarenko, Low-cost automatic titrations in undergraduate laboratory, ACS National Meeting, Philadelphia, August 2008.

A.Y. Nazarenko, Headspace Microextraction into a Drop of Aqueous Solution: A Novel Approach In Microdiffusion Technique, NERM-2008 ACS Meeting, Burlington, June 2008

A.Y. Nazarenko, Optical Sensors for Manual and Automatic Titration, Eastern Analytical Symposium, Somerset, NJ, November 2007.

E. V. Rybak-Akimova, J. P. Wikstrom, W. M. Reiff, A.Y. Nazarenko, Synthesis and characterization of tetrakis(μ_3 -hydroxo)tetrakis(2,2'-dipicolylamine)tetrnickel perchlorate, a nickel-hydroxy cubane complex, ACS National Meeting, Boston, August 2007.

A.Y. Nazarenko, A Low-Cost Automatic Gravimetric Titration Setup for College Laboratory, PITTCO 2007, Chicago

A.Y. Nazarenko, Contemporary identification methods: Bridging forensic science and traditional qualitative analysis, ACS National Meeting, Chicago, March 2007.

A.Y. Nazarenko, M.S. Goodman, K.F. Jonmaire, Contemporary Undergraduate Qualitative Analysis: Use of CCD-based Raman, Atomic Emission, and Reflectance Spectrometers, NERM 2006, Binghamton, September 2006.

A.Y. Nazarenko, A. McMillan, J. Shemansky, Heavy Metals in Bird Feathers: Sample Preparation, Analysis, and Genetics, *PITTCON 2006, Orlando, 2006*.

A.Y. Nazarenko, Low Resolution Raman Spectroscopy in Instrumental Analysis Laboratory, FACSS 2005, Quebec, October 2005

A.Y. Nazarenko, A Crystallographic Tale: Spin Transition in Macrocyclic Nickel(II) Complexes, NERM 2004, Rochester, November 2004

A. W. Addison, J. W. Bennett, R. K. Bowman, R. J. Butcher, A. Y. Nazarenko, M. J. Prushan, N. G. Stahl, L. K. Thompson Di- and tri-nuclear copper(II) complexes of some new isoindoline ligands. ACS National Meeting, August 2004, Philadelphia, PA

R. Heary, A.Y. Nazarenko Liquid-Phase Headspace Microextraction into a Single Drop PITCON 2004, Detroit, March 2004

A.Y. Nazarenko, N.A. Nazarenko. Data Acquisition in Undergraduate Chromatographic experiment, FACSS 2003 Fort Lauderdale, FL October 2003

S. V. Kryatov , S. Taktak , F. Meyer , A. Y. Nazarenko , E. V. Rybak-Akimova Structural and kinetic studies of urea binding by model dinuclear metal complexes: Implications for the mechanism of urease. ACS National Meeting, September 2003, New York NY

A.Y. Nazarenko, Educational Multiwavelength Flame Emission Spectrometer, FACSS 2002, October 2002, Providence, RI

A.Y. Nazarenko, N.A. Nazarenko, From spectrophotometer into Excel: Do not retire old good spectrophotometer, ACS National Meeting, August 2002, Boston, MA

A.Y. Nazarenko, J. Zeng, Lead Separation using Plasticized Membranes. ACS national meeting, August 2002, Boston, MA

E. V. Rybak-Akimova , S. V. Kryatov , B. S. Mohanraj , O. P. Kryatova , B. Nuthakki , J. F. Rusling , R. J. Staples , A. Y. Nazarenko Nickel(II) complexes with polydentate aminopyridine ligands: Synthesis, structure, electrochemistry, and reduction to nickel(I) species. ACS national meeting, April 2002, Orlando FL

A.Y.Nazarenko, Polymer plasticizer membranes for metal ion separation, Gordon Research Conference on Ion –Containing Polymers, July 2001, Williamstown, Massachusetts.

A.Y.Nazarenko, O.Levi, Pre-concentration of metal ions using polymer plasticizer membranes, FACSS 2001, October 2001, Detroit.

E. V. Rybak-Akimova , A. G. Kolchinski , J. S. Disch , R. Wilson , A. Y. Nazarenko New aspects of cyclidene chemistry, ACS National Meeting, Washington, D.C., August 2000.

A. Y. Nazarenko, Gordon Research Conference 'Reactive Polymers, Ion Exchange and Adsorbents', New England College, July 1999

E. V. Rybak-Akimova , A. Y. Nazarenko , S. S. Silchenko , G. V. Kalayda, Double-bond migration in macrocyclic complexes dictated by coordination requirements of the metal ion. ACS National Meeting, March 2000, San Diego, CA

J. D. Lamb, A. Y. Nazarenko, T.G. Levitskaia, Calixarene carriers for metal ions in polymer-inclusion membranes ACS National Meeting, Anaheim, March 1999

A. Y. Nazarenko, N.K. Dalley, J. D. Lamb, Y.D.Lampeka, A.I.Prikhodko, New azacyclam complexes: X-ray structures. ACS National Meeting, Boston, Aug 1998

G.G.Talanova, A.N.Kozachkova, I.N. Kuraeva, A. Y. Nazarenko et al , Bis(phosphine sulfides) in palladium (II) complexation and extraction, ACS National Meeting, Boston, Aug 1998

A. Y. Nazarenko, J. D. Lamb, New solvent systems for metal ion separation. International Symposium on Macrocyclic Chemistry, Hawaii, June 1998

A. Y. Nazarenko, J. D. Lamb, Extraction of metal ions from acidic media using poly(ethylene oxide). Northwest ACS Meeting, Pasco, Washington June 1998

J. D. Lamb, A. Y. Nazarenko, R.J. Hansen, New Solvent system for Strontium Extraction With Crown Ethers, Tenth Symposium on Separation Science for Energy Applications, Gatlinburg, 1997

N.K. Dalley, J. D. Lamb, A. Y. Nazarenko, Structure of the lead complexes with S,O-macrocycles, ACS National Meeting, San Francisco, April 1997

J. D. Lamb, A. Y. Nazarenko, The use of media with high dielectric constant for hazardous metal ion separation, Rocky Mount. Conference on Analytical Chemistry, Denver, 1997

J. D. Lamb, A. Y. Nazarenko, Metal ion transport Through polymer inclusion membranes with crown ether carriers, ACS National Meeting, Las Vegas, September 1997

J. D. Lamb, A. Y. Nazarenko, G.Wipff, A.Varnek, Solvent extraction of metal ion picrates with phosphine oxide podands, ACS National Meeting, Las Vegas, September 1997

J. D. Lamb, A. Y. Nazarenko, Association of Crown Ethers with Dinitriles – a study of the new extraction System, Northwest ACS Meeting, Moscow, Idaho, June 1997

J. D. Lamb, A. Y. Nazarenko, R.J. Hansen, New Coalescent Solvent Extraction Systems, ACS National Meeting, San Francisco, April 1997

D. Lamb, A. Y. Nazarenko, Polymer Inclusion Membranes with Macrocyclic Carriers, Rocky Mount. Conference on Analytical Chemistry, Denver, 1996

N.K. Dalley, J. D. Lamb, A. Y. Nazarenko, Structure of the lead picrate complexes with crown ethers. International Union of Crystallography Congress, Seattle, August 1996

Lamb J.D. and Nazarenko A.Y. Polymer Inclusion Membranes - a Novel Method of Processing Nuclear Waste. Proceedings of the 1996 Membrane Technology / Separations Planning Conference, Business Communs Co, Inc., 1996, Newton, MA.

Bruker/MIT X-ray Crystallography Symposium: every February, 2010-2018

A.Y. Nazarenko Crystallography Education and Training in the 21st Century: Teaching Undergraduate College Students. CIT-2015, Geneseo, May 2015.

A.Y. Nazarenko Design and Testing of Laboratory Instruction Management System (LIMS) SUNY CIT, May 2013, Utica NY.

Refereed Publications:

1. Dubovenko L.I., Nazarenko A.Y. Chemiluminescence of lucigenin in the presence of iron(II), *Ukr. Khim. Zh.*, **1975**, 41(11), 1205-1209.
2. Pyatnitskii I.V., Nazarenko A.Y. Effect of gelatin and diantipyrylmethane on the complexing of titanium with pyrocatechol violet. *Ukr. Khim. Zh.*, **1977**, 43(5), 539-542.
3. Pyatnitskii I.V., Nazarenko A.Y. New variant of the metal indicator method. *Russ.J.Anal.Chem. (Engl.Ed.)*, **1977**, 32(5) *Zh.Anal. Khim.* **1977**, 32(5), 853-857.
4. Nazarenko A.Y., Pyatnitskii I.V. Determination of the composition of complexes based on extreme properties of equilibrium shift curves. *Zh. Neorg. Khim.*, **1977**, 22(7), 1816-1821(Engl. Ed.: *Russ. J. Inorg. Chem.*, 985-988)
5. Dubovenko L.I., Nazarenko A.Y. Extraction of products of lucigenin transformation in the presence of reducing agents. *Ukr. Khim. Zh.*, **1977**, 43(7), 766-769.
6. Pyatniitskii I.V., Nazarenko A.Y. Mixed-ligand sulfosalicylate complexes of titanium with oxalic, tartaric, and citric acids. *Ukr. Khim. Zh.*, **1977**, 43(7), 763-766.
7. Dubovenko L.I., Nazarenko A.Y. Properties of alkaline solutions of lucigenin. *Ukr. Khim.*

Zh., **1977**, 43(9), 984-987.

8. Nazarenko A.Y. Kinetics and mechanism of the reaction of titanium with diantipyrylmethane. *Ukr. Khim. Zh.*, **1978**, 44(3), 294-296.

9. Dubovenko L.I., Nazarenko A.Y. Chemiluminescence reactions between lucigenin and reductants. *Russ.J.Anal.Chem. (Engl.Ed.)*, **1977**, 32(7) *Zh. Anal. Khim.*, **1977**, 32(7), 1345-1351

10. Nazarenko A.Y., Pyatnitskii I.V. Mixed-ligand complexes of titanium with oxalic acid and phenols, ascorbic acid, and acetylacetone. *Russ.J.Anal.Chem. (Engl.Ed.)*, **1978**, 33(1) *Zh. Anal. Khim.*, **1978**, 33(1), 87-90.

11. Pyatnitskii I.V., Nazarenko A.Y. Mixed-ligand complexess of titanium with diantipyrylalkanes and different acids. (Engl. Ed.: *Russ. J. Inorg. Chem.*, **1978**, 23(6), 834-837). *Zh. Neorg. Khim.*, **1978**, 23(6), 1515-1519.

12. Nazarenko A.Y., Pyatnitskii I.V. Ternary fluoride complexes of titanium with phenols, ascorbic acid, antipyrine, and acetylacetone. (Engl.ed: *Russ. J. Inorg. Chem.* **1978**, 23(7), 999-1001) *Zh. Neorg. Khim.*, **1978**, 23(7), 1816-1819..

13. Nazarenko A.Y., Pyatnitskii I.V. Study of the complexing of titanium with α -hydroxy acids, pyruvic and oxalic acid. (Engl. Ed.: *Russ. J. Inorg. Chem.* **1978**, 23(10), 1470-1474) *Zh. Neorgan. Khim.*, **1978**, 23(10), 2655-2662.

14. Nazarenko A.Y. Study of the structure of analytical reagents by the method of atom-atom potentials. *Zh. Strukt. Khim.*, **1978**, (3), 525- 526.

15. Nazarenko A.Y., Pyatnitskii I.V. Mixed-ligand complex of titanium with pyrocatechol and nitrilotriacetic acid. *Ukr. Khim. Zh.*, **1978**, 44(10), 1108-1109.

16. Nazarenko A.Y., Pyatnitskii I.V. Determination of phenols and ascorbic acid in the form of a mixed ligand' complex involving titanium and oxalic acid. *Russ.J.Anal.Chem. (Engl.Ed.)*, **1978**, 33(9) *Zh. Anal. Khim.*, **1978**, 33(9), 1860-1861.

17. Pyatnitskii I.V., Nazarenko A.Y. Solvent extraction of mixed-ligand complexes of titanium with two electronegative legands. *Russ.J.Anal.Chem. (Engl.Ed.)*, **1979**, 34(2) *Zh. Anal. Khim.*, **1979**, 34(2), 398-402.

18. Nazarenko A.Y., Pyatnitskii I.V. Mixed-ligand complexes of titanium with phenols and phosphoric or arsonic acids. *Ukr. Khim. Zh.*, **1979**, 45(5), 464-466.

19. Nazarenko A.Y., Pyatnitskii I.V. Determination of oxalic acid as a heteroligand complex of titanium-diantipyrylpropylmethane-oxalate. *Russ.J.Anal.Chem. (Engl.Ed.)*, **1979**, 34(6) *Zh. Anal. Khim.*, **1979**, 34(6), 1175-1177.

20. Pyatnitskii, I.V., Nazarenko, A.Y. Extraction of single-charged cations of metals in the form of mixed complexes with dibenzo-18-crown-6 and bromphenol blue. (Engl. Ed.: *Russ. J. Inorg. Chem.* **1980**, 25(4), 592-594) *Zh. Neorg. Khim.*, **1980**, 25(4), 1064-1067.

21. Nazarenko A.Y., Pyatnitskii I.V. Complexes of titanium with acetylacetone and different phenols in acetic acid. *Ukr. Khim. Zh.*, **1980**, 46(11), 1218-1221.

22. Nazarenko A.Y., Pyatnitskii I.V. Absorption spectra of mixed-ligand complexes of titanium with two electronegative ligands. *Org. Reagenty Anal. Khim.*, **1980**, 3, 88-92.

23. Nazarenko A.Y., Pyatnitskii I.V. Masking of copper and cobalt with a nitrogen-containing macrocyclic reagent. *Russ.J.Anal.Chem. (Engl.Ed.)*, **1981**, 36(1) *Zh. Anal. Khim.*, **1981**, 36(1), 83-85.

24. Nazarenko A.Y. Variant of the direct line method for the determination of the composition and stability of complexes in solutions. *Ukr. Khim. Zh.*, **1981**, 47(5), 500-502.

25. Nazarenko A.Y., Pyatnitskii I.V., Stolyarchuk T.A. Extraction-photometric determination of potassium as a mixed-ligand complex with dibenzo-18-crown-6 and tropeolin 00.

Russ.J.Anal.Chem. (Engl.Ed.), **1981**, 36(9) *Zh. Anal. Khim.*, **1981**, 36(9), 1719-1721.

26. Nazarenko A.Y., Stolyarchuk T.A. Extraction of single-charged metal cations as mixed-ligand complexes with dibenzo-18-crown-6 and anionic azo-dyes. *Russ. J. Inorg. Chem. (Engl. Ed.)* **1982**, 27(2), 251-254; *Zh. Neorg. Khim.*, **1982**, 27(2), 443-447.

27. Pyatnitskii I.V., Nazarenko A.Y., Alekseyuk N.P. Study of metal-dibenzo-18-crown-6 - sulfophthalein dye complexes using experiment design. *Russ. J. Inorg. Chem.* **1982**, 27(5), 628-629; *Zh. Neorg. Khim.*, **1982**, 27(5), 1117-1120.

28. Nazarenko A.Y. Photometric determination of copper as a complex with macrocyclic polyamine. *Ukr. Khim. Zh.*, **1982**, 48(3), 306-309.

29. Nazarenko A.Y. Extraction of mixed ligand complexes of copper with some macrocyclic amines and chelate-forming anions. *Izv. Vysch. Uchebn. Zaved., Khim. Khim. Teknol.*, **1982**, 25(5), 598-600.

30. Lipkovskaya N.A., Nazarenko A.Y. Use of experiment design methods in the determination of the composition of complexes by the isomolar series method. *Russ. J. Inorg. Chem.* **1982**, 27(7), 922-924; *Zh. Neorg. Khim.*, **1982**, 27(7), 1632-1635.

31. Nazarenko A.Y., Voloshin Ya.Z. Determination of iron as a macrocyclic complex with Nioxime and boric acid. *Russ.J.Anal.Chem. (Engl.Ed.)*, **1982**, 37(8) *Zh. Anal. Khim.*, **1982**, 37(8), 1469-1472.

32. Pyatnitskii I.V., Nazarenko A.Y., Alekseyuk N.P. Extraction of single charge metal cations in the mixed complexes with 18-crown-6 and anions of azo dyes. *Dopov. Akad. Nauk Ukr. RSR, Ser. B: Geol., Khim. Biol. Nauki*, **1982**, (12), 48-51.

33. Alekseyuk N.P., Nazarenko A.Y., Pyatnitskii I.V. Comparative study of solvent extraction of mixed-ligand complexes of metal cations with sulfophthalein dyes. *Russ.J.Anal.Chem. (Engl.Ed.)*, **1982**, 37(12) *Zh. Anal. Khim.*, **1982**, 37(12), 2147-2150.

34. Nazarenko A.Y. Extraction of metal mixed-ligand metal complexes with dibromodibenzo-18-crown-6 and anions of dyes. *Ukr. Khim. Zh.*, **1983**, 49(3), 279-281.

35. Pyatnitskii I.V., Alekseyuk N.P., Nazarenko A.Y. Effect of solvents on the extraction of metal complexes with dibenzo-18-crown-6 and sulfophthalein dyes. *Ukr. Khim. Zh.*, **1983**, 49(3), 275-279.

36. Pyatnitskii I.V., Nazarenko A.Y., Alekseyuk N.P. Extraction-photometric determination of polyethylene glycols and their derivatives with macrocyclic and acyclic structure. *Khim. Tekhnolog. Vody*, **1983**, 5(3), 224-225.

37. Nazarenko A.Y., Titarenko T.A. Extraction of mixed-ligand complexes of copper with 14-member tetraazamacrocyclic ligands and thiocyanate (perchlorate). *Ukr. Khim. Zh.*, **1983**, 49(6), 630-633.

38. Sukhan V.V., Gorlach V.F., Nazarenko A.Y., Pilipenko L.E., Klad N.V. Extraction of complexes of copper, nickel, and cobalt with unsaturated macrocyclic tetraamines and carboxylic acids. *Ukr. Khim. Zh.*, **1983**, 49(9), 956-960.

39. Nazarenko A.Y., Pyatnitskii I.V., Nizhnik Z.Z. Chloroform extraction of mixed-ligand metal complexes with 15-crown-5 and picrate ion. *Russ. J. Inorg. Chem. (Engl. Ed.)* **1983**, 28(11), 1637; *Zh. Neorg. Khim.*, **1983**, 28(11), 2886-2889.

40. Nazarenko A.Y., Tananaiko M.M., Todradze G.A. Complex cationic surfactants - new type of surfactant reagents for photometric analysis. *Dopov. Akad. Nauk Ukr. RSR, Ser.B: Geol., Khim. Biol. Nauki*, **1983**, (11), 48-50.

41. Nazarenko A.Y., Bykh T.A. Extraction of mixed-ligand complexes of copper, nickel, and cobalt with tetraazamacrocyclic ligands and azo dye anions. *Russ.J.Anal.Chem. (Engl.Ed.)*, **1983**, 38(11) *Zh. Anal. Khim.*, **1983**, 38(11), 1946-1949.

42. Pyatnitskii I.V., Alekseyuk N.P., Nazarenko A.Y. Extraction-photometric determination of lead, thallium, and potassium as complexes with 18-crown-6 and dye anions. *Russ.J.Anal.Chem. (Engl.Ed.)*, **1983**, 38(12), *Zh. Anal. Khim.*, **1983**, 38(12), 2176-2180.
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