Olga V. Buyko

Personal

Date of Birth: September 11th, 1986
Citizenship: Russian

Address

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Education

2008 Diploma in Chemistry* (with distinction), Siberian Federal University (Russia)
2012 Candidate of sciences ** (Chemistry), Tomsk Polytechnic University (Russia)
* "The regularities of formation of mixed-ligand metal complexes on the surface of modified silicas"
** "Silica modified by derivatives of chromotropic acid, and phytosorbents for preconcentration and determination of metal ions"

Additional education

2011 Diploma of additional to higher education "High school teacher", Siberian Federal University (Russia)
2018 Certificate of "Effective presentation in the educational process"

Research Experience

Research Assistant 2012–present
Siberian Federal University Krasnoyarsk, Russia

Postgraduate studies 2008-2011
Prof. Dr. Vladimir N. Losev SFU, Krasnoyarsk, Russia

Diploma student 2003–2008
Prof. Dr. Vladimir N. Losev SFU, Krasnoyarsk, Russia

Teaching experience

Courses in "Analytical chemistry", "General and inorganic chemistry", "Analysis of inorganic ions and organoelement compounds in pharmacy"

Language skills

English (fluent), Russian (native), Spanish (Pre-Intermediate), Korean (Elementary)

Hobbies

Foreign languages, fishkeeping

Honors and Awards

2018-2020 The head of the Russian Foundation for Basic Research and the government of Krasnoyarsk region of the Russian Federation Grant #18-43-243004.
2018-2020 The head of the Foundation for Basic Research Grant #16-43-242090.

2016-2018 Participant of the Russian Foundation for Basic Research and the government of Krasnoyarsk region of the Russian Federation Grant #18-43-243004.

2013 Participant of the Russian Foundation for Basic Research Grant #13-03-06075

2004-2007 Vladimir Potanin Fellowship Program

Publications

[1] **“**Silica sequentially modified with polyhexamethylene guanidine and Arsenazo I for preconcentration and ICP-OES determination of metals in natural waters”
V.N. Losev, O.V. Buyko, A.K. Trofimchuk, O.N. Zuy
MicroChem. J. 123, 84-89 (2015) doi: 10.1016/j.microc.2015.05.022
[2] “Sorption-spectrometric determination of palladium and gold using silica chemically modified with dipropyl disulfide groups”
V.N. Losev, E.V. Borodina, O.V. Buiko, N.V. Maznyak, A.K. Trofimchuk
Journal of analytical chemistry 69(5), 413-419 (2014) doi: 10.1134/S1061934814030101
[3] “Formation of Copper (I) mixed-ligand complexes with mercaptopropyl or dipropyl disulfide groups covalently bonded to the silica surface and Michler’s thioketone”
V.N. Losev, E.V. Buiko, O.V. Buiko, A.K. Trofimchuk, E.A. Tsiganovich
Russian Journal of Inorganic Chemistry 54 (1), 81-85 (2009) doi: 10.1134/S003602360901015X
[4] “Extraction of precious metals from industrial solutions by the pine (*Pinus sylvestris*) sawdust-based biosorbent modified with thiourea groups”
V.N. Losev, E.V. Elsufiev, O.V. Buyko, A.K. Trofimchuk, R.V. Horda, O.V. Legenchuk
Hydrometallurgy 176, 118-128 (2018) doi: 10.1016/j.hydromet.2018.01.016
[5] “Biosorbents based on pine sawdust and malt sprouts for preconcentration and ICP-OES determination of nonferrous, heavy, and precious metals in the environmental samples”
Vladimir N. Losev, Olga V. Buyko, Elena V. Borodina, Alexander S. Samoilo, Anatoly M. Zhyzhaev, Boris A. Velichko
Separation Science and Technology 53 (11), 1654-1665 (2018) doi: 10.1080/01496395.2018.1435692
[6] “Chemical differentiation of silver (I), gold (I), and palladium (II) complexes with dipropyl disulfide groups covalently bound to a silica surface and Michler’s thioketone in solid-phase spectrophotometry”
V.N. Losev, O.V. Buiko, E.V. Borodina, A.K. Trofimchuk
Journal of Analytical Chemistry 70 (4), 431-435 (2015) doi: 10.1134/S1061934815040085
[7] “Application of Silica Chemically Modified by Sulfur-Containing Groups to the Separation and Determination of Platinum and Rhenium in Catalysts Based on Aluminum Oxide”
V.N. Losev, V.V. Parfenova, E.V. Elsuf’ev, O.V. Buiko, S.L. Didukh, O.V. Belousov, N.G. Maksimov
Journal of analytical chemistry 73 (4), 325-333 (2018) doi: 10.1134/S106193481804007X