europass

Tatsiana Petrasheuskaya

Nationality: Belarusian

(+36) 62544336

Date of birth: 20/07/1992

Gender: Female

Email address: petrashevtanya@chem.u-szeged.hu

Email address: petrasheut22@univie.ac.at

ORCID : https://orcid.org/0000-0001-7947-3828

Twitter : https://twitter.com/TPetrasheuskaya

researchgate : https://www.researchgate.net/profile/Tatsiana-Petrasheuskaya?ev=hdr_xprf&_sg=nxWF52Fqd5oHY3z11qnn9g

LinkedIn : https://www.linkedin.com/in/tatsiana-petrasheuskaya-741b673a/

Address: Dom ter 7, 6720 Szeged (Hungary)

WORK EXPERIENCE

Junior research fellow

Research Institute for Physical Chemical Problems, Belarussian State University [03/2013 – 06/2017]

City: Minsk
Country: Belarus

Research assistant

University of Vienna [07/2017 – 10/2017]

City: Vienna
Country: Austria

Leading expert

Factory of veterinary drugs 'Beleka' [04/2018 – 08/2018]

City: Minsk
Country: Belarus

Research assistant

University of Szeged [09/2018 – 08/2019]

City: Szeged
Country: Hungary

EDUCATION AND TRAINING

B. Sc. degree in Chemistry

Belarussian State University [01/09/2009 – 30/06/2014]

M. Sc. degree in Chemistry
National Academy of Sciences of the Republic of Belarus [01/09/2014 – 30/06/2015]

Doctoral School of Chemistry
SZTE TTIK [01/09/2019 – Current]

LANGUAGE SKILLS

Mother tongue(s): **Russian** | **Belarusian**

Other language(s):

English

LISTENING B2 **READING** B2 **WRITING** B2

SPOKEN PRODUCTION B2 **SPOKEN INTERACTION** B2

German

LISTENING A2 **READING** A2 **WRITING** A2

SPOKEN PRODUCTION A2 **SPOKEN INTERACTION** A2

DIGITAL SKILLS

Proficient in using Microsoft Office / Chemdraw / scifinder / Web of science / Mestrelab - Mnova / Origin / Chemoffice / Perkin Elmer UV / Hyperquad / PSEQUAD / Mercury / OPUS spectroscopy software / ShelX / Chromeleon / ProteoWizard

PUBLICATIONS

Redox-active zinc(II) complexes with Mannich bases: synthesis, physico-chemical characterization and biological evaluation

Petrasheuskaya T.V., Kaval'chuk T.V., Loginova N.V.*, H. I. Harbatsevich, N. P. Osipovich, Y. A. Faletrov

Advances in Coordination, Bioinorganic and Inorganic Chemistry STU Press, Bratislava, 2015, 126- 137.

http://www.iccbic.stuba.sk/content/iccbic_25_monograph.pdf

Anticancer salicylaldehyde thiosemicarbazone copper complexes: impact of hybridization with estrone on cytotoxicity, solution stability and redox activity

Tatsiana V. Petrasheuskaya, Márton A. Kiss, Orsolya Dömötör, Tamás Holczbauer, Nóra V. May, Gabriella Spengler, Annamária Kincses, Ana Čipak Gašparović, Éva Frank, Éva A. Enyedy*

NEW JOURNAL OF CHEMISTRY, 44, 2020, 12154-12168.

https://doi.org/10.1039/D0NJ01070G

Insight into the anticancer activity of copper(II) 5-methylenetrimethylammonium-thiosemi-carbazonates and their interaction with organic cation transporters

Miljan N.M. Milunović,* Oleg Palamarciuc,Angela Sirbu, Sergiu Shova, Dan Dumitrescu, Dana Dvoranová, Peter Rapta, **Tatsiana V. Petrasheuskaya**, Eva A. Enyedy, Gabriella Spengler, Marija Ilic, Harald H. Sitte, Gert Lubec, Vladimir B. Arion*

BIOMOLECULES, 10, 2020, 1213

https://doi.org/10.3390/biom10091213

Complex formation of an estrone-salicylaldehyde semicarbazone hybrid with copper(II) and gallium(III): solution equilibria and biological activity

Éva A. Enyedy,* **Tatsiana V. Petrasheuskaya**, Márton A. Kiss, Debora Wernitznig, Dominik Wenisch, Bernhard K. Keppler, Gabriella Spengler, Nóra V. May, Éva Frank, Orsolya Dömötör

JOURNAL OF INORGANIC BIOCHEMISTRY, 220, 2021**,** 111468

https://doi.org/10.1016/j.jinorgbio.2021.111468

Triapine analogues and their copper(II) complexes: synthesis, characterization, solution speciation, redox activity, cytotoxicity and mR2 RNR inhibition

Juliana Besleaga, Iryna Stepanenko, **Tatsiana V. Petrasheuskaya**, Denisa Darvasiova, Martin Breza, Marta Hammerstad, Małgorzata A. Marć, Alexander Prado-Roller, Gabriella Spengler, Ana Popović-Bijelić, Eva A. Enyedy**,** ***** Peter Rapta,* Anatoly Shutalev,* Vladimir B. Arion*

INORGANIC CHEMISTRY, 60, 2021, 11297-11319

https://doi.org/10.1021/acs.inorgchem.1c01275

Estrone-salicylaldehyde N-methylated thiosemicarbazone hybrids and their copper complexes: solution structure, stability and anticancer activity in tumor spheroids

Tatsiana V. Petrasheuskaya, Debora Wernitznig, Márton A. Kiss, Nóra V. May, Dominik Wenisch, Bernhard K. Keppler, Éva Frank, Éva A. Enyedy*****

JOURNAL OF BIOLOGICAL INORGANIC CHEMISTRY, 26, 2021, 775-791

https://doi.org/10.1007/s00775-021-01891-7

A comparative study on the complex formation of 2-aminoestradiol and 2-aminophenol with divalent metal ions: Solution chemistry and anticancer activity

Tatsiana V. Petrasheuskaya, Ferenc Kovács, Gabriella Spengler, Nóra V May, Éva Frank, Éva A Enyedy*

Journal of Molecular Structure, 1261, 2022, 132858

https://doi.org/10.1016/j.molstruc.2022.132858

NETWORKS AND MEMBERSHIPS

Member of Hungarian Chemical Society

[Budapest, Hungary, 01/01/2020 – Current]

SOCIAL AND POLITICAL ACTIVITIES

Member of Rotaract club

[Minsk, Belarus, 24/12/2010 – Current]

DRIVING LICENCE

Driving Licence: AM

Driving Licence: B

CONFERENCES AND SEMINARS

VIII All-Russian Conference «Mendeleev 2014

[St Petersburg, Russia, 01/04/2014 – 04/04/2014]

Complexing derivatives of 1,3-dihydroxybenzene with zinc ions (II)

III All-Russian Scientific Conference "The success of synthesis and complexation"

[Moscow, Russia, 21/04/2014 – 25/04/2014]

Synthesis and properties of bioactive complex of zinc (II) with 1,2-dihydroxybenzene derivatives

VII International Conference on Chemistry and Chemical Education “Sviridov Readings 2015”

[Minsk, Belarus, 07/04/2015 – 11/04/2015]

Bioactive complexes Cu (II) and Zn (II) with Mannich base

XXV International Conferences on Coordination and Bioinorganic Chemistry

[Smolenice, Slovakia, 31/05/2015 – 05/06/2015]

Redox-active zinc(II) complexes with Mannich bases: synthesis, physico-chemical characterization and biological evaluation

International scientific-practical conference "Free Radicals in Chemistry and Life"

[Minsk, Belarus, 25/05/2015 – 26/05/2015]

The redox-active complexes of copper (II) and zinc (II) a Mannich base

XII All-Russian conference "Problems of solvation and complex formation in solutions"

[Ivanovo, Russia, 29/06/2015 – 03/07/2015]

The complexation of transition metal ions spatially shielded from 1,2-dihydroxybenzene derivatives in water-ethanol solution

International Symposium on Metal Complexes, ISMEC-2019

[Hajdúszoboszló/Debrecen, Hungary, 11/06/2019 – 14/06/2019]

Copper(II) complexes of salicylaldehyde thiosemicarbazone and its structurally-related analogs: solution stability, redox properties and cytotoxicity

XLII. Chemistry Days

[Szeged, Hungary, 28/10/2019 – 30/10/2019]

Antitumor copper complexes of salicylaldehydethiosemicarbazones:Solution chemistry and biological acitivity

MTA Steroid and Terpenoid Chemistry working group meeting

[Szeged, Hungary, 22/11/2019 – 22/11/2019]

Synthesis, solution stability and anticancer activity of copper complexes formed with salicylaldehyde thiosemicarbazone-estrone conjugates

XLIII. Chemistry Days

[Szeged, Hungary, 27/10/2020 – 28/10/2020]

Comparative solution study on estrone salicylaldehyde (thio)semicarbazones and their copper complexes: impact of hybridization and methylation

26th International Symposium on Analytical and Environmental Problems

[Szeged, Hungary, 23/11/2020 – 24/11/2020]

Effects of stepwise terminal NH_2-methylation of estrone-salicylaldehyde–thiosemicarbazone and copper coordination, solution speciation, anticancer activity and redox activity

International Symposium on Metal Complexes, ISMEC-2021

[Online, Białystok, Poland, 16/06/2021 – 18/06/2021]

Estrone-salicylaldehyde N-methylated-thiosemicarbazone hybrids and their copper complexes: solution study and anticancer activity in tumor spheroids

RECOMMENDATIONS

Supervisor of master and bachelor works

Name: Prof. Dr. Natalia V. Loginova
Email: loginonv@bsu.by

Department of Inorganic chemistry, Belarusian State University, Leningradskaya Str., 14, Minsk 220030, Belarus

Supervisor of master and bachelor works

Name: Associate Prof. Dr.Tatsiana V. Kovalchuk
Email: ktv-chem@mail.ru

Department of Electrochemistry, Belarusian State University, Leningradskaya Str., 14, Minsk 220030 Belarus

Group leader

Name: Prof. Dr. Vladimir B. Arion
Email: vladimir.arion@univie.ac.at

Department of Inorganic chemistry, University of Vienna, Währinger Strasse 42 A-1090, Vienna, Austria

Supervisor of PhD dissertation

Name: Dr. Éva Anna Enyedy
Email: enyedy@chem.u-szeged.hu

Department of Inorganic and Analytical chemistry, University of Szeged, Dom ter 7, 6720 Szeged, Hungary

HONOURS AND AWARDS

Winner of the XXI Republican contest of scientific works of students for work- NIRS-2015

[2015]

Synthesis and properties of bioactive complexes derived Mannich bases with zinc ions (II)

Visegrad Scholarship Program #51910905

[2019]

Solution studies on anticancer metal complexes with thiosemicarbazone derivatives

Scholarship Foundation of the Republic of Austria, Undergraduates, Graduates, Postgraduates

[2019]

Synthesis and characterization of alpha-N-pyridyl thiosemicarbazones

Visegrad Scholarship Program #52010752

[2020]

Anticancer thiosemicarbazones and their metal complexes

STSM CA grant 18202 #47209

[2020]

Spectroelectrochemical studies on copper and iron complexes of imidazole-derived thiosemicarbazones

Ernst Mach Grant
[2021]
Synthesis of potentially anticancer thiosemicarbazone derivatives and their metal complexes

MANAGEMENT AND LEADERSHIP SKILLS

Problem-solving, decision-making, planning, public speaking.

HOBBIES AND INTERESTS

Travelling, sports, art, music.

COMMUNICATION AND INTERPERSONAL SKILLS

Teamwork, responsible for work, flexible, patient, straight talking.