

PERSONAL INFORMATION

Silvija Šafranko

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Date of Birth 21/04/1994

WORK EXPERIENCE

2019 - present **Research Assistant on „ByProExtract“ project**
 Faculty of Food Technology Osijek, Franje Kuhača 20, 31000 Osijek
<http://www.ptfos.unios.hr/>

EDUCATION AND TRAINING

2019 - present **Postgraduate doctoral study Food Technology and Nutrition**
 Faculty of Food Technology Osijek, Franje Kuhača 20, 31000 Osijek
<http://www.ptfos.unios.hr/>

2016 - 2018 **Graduate University Study Programme in Chemistry - Master in Chemistry**
 Department of Chemistry, Ulica cara Hadrijana 8/A, 31000 Osijek
<http://www.kemija.unios.hr/>

Diploma Thesis: Precipitation of calcium oxalate in artificial urine (Supervisor: Berislav Marković, Ph.D. Associate Professor, Assistant supervisor: Anamarija Stanković, Ph.D.)

2013 - 2016 **Undergraduate University Study Programme in Chemistry - Bachelor in Chemistry**
 Department of Chemistry, Ulica cara Hadrijana 8/A, 31000 Osijek
<http://www.kemija.unios.hr/>
BA Thesis: The effect of mechanical mixing, temperature and citrate concentration on the calcium oxalate precipitation (Supervisor: Berislav Marković, Ph.D. Associate Professor, Assistant supervisor: Anamarija Stanković (Šter), Ph.D.)

2009 - 2013 **High School "Stjepan Ivšić" Orahovica**
 Trg Tina Ujevića 1, 33515 Orahovica
<http://www.ss-sivsic-orahovica.skole.hr/>

PERSONAL SKILLS

Mother tongue(s) Croatian

Foreign language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken Interaction	Spoken production	
English	B2	B2	B2	B2	B2
German	A2	A2	A2	A1	A1

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user
[Common European Framework of Reference for Languages](#)

Communication skills Good communication skills gained through education, oral presentations at conferences, as a Student Council President and as a member of several Student Associations. Good organisational/managerial skills also gained through leadership of student workshops and in co-organization of student manifestations

Organizational / managerial skills

ASSOCIATIONS AND MEMBERSHIPS

- 2018 Student Council President of Department of Chemistry Osijek
 2017 - 2018 Student Council Vice President of Department of Chemistry Osijek

ACTIVITIES AND ORGANISATIONS

- 24-25/10/2019 A member of organizing committee of the WITH FOOD TO HEALTH Conference, Osijek
 23-24/05/2019 A member of organizing committee of the 2nd Young Scientists Days Conference, Osijek
 14/06/2018 A member of organizing committee of the 1st Young Scientist Day Conference, Osijek – Graphics
 2016 - danas Active participations in promotion of science and Faculty (Science Festival, Science Night, European Researchers Night,...)

Computer skills Great command of Microsoft Office tools, OriginLab, ChemDoodle, MarvinSketch, Visual Minteq, and image/video editing software such as Photoshop CS2, CorelDraw, as well Sony Vegas Pro. Good command of Mathcad, Visual Basic programming language (several application developed; ColorX software), some experience using Wordpress platform.

Other skills Responsibility, team work, proactivity, motivation, dedication to work

ADDITIONAL INFORMATION

Projects IZIP-2016; Precipitation of calcium oxalate in artificial urine (Graduate Student Researcher)

ByProExtract – present; Research Assistant

Publications

SCIENTIFIC ARTICLES IN JOURNALS INDEXED IN CC

- 2019 **Silvija Šafranko**, Pavo Živković, Anamarija Stanković, Martina Medvidović-Kosanović, Aleksandar Széchenyi, and Stela Jokić. Designing ColorX, Image Processing Software for Colorimetric Determination of Concentration, To Facilitate Students' Investigation of Analytical Chemistry Concepts Using Digital Imaging Technology, Journal of Chemical Education 2019 96 (9), 1928-1937 DOI: 10.1021/acs.jchemed.8b00920
- 2019 Stela Jokić, Maja Molnar, Ana-Marija Cikoš, Martina Jakovljević, **Silvija Šafranko**, Igor Jerković (2019) Separation of selected bioactive compounds from orange peel using the sequence of supercritical CO₂ extraction and ultrasound solvent extraction: optimization of limonene and hesperidin content, Separation Science and Technology, DOI: 10.1080/01496395.2019.1647245
- 2019 Jokić, S.; **Šafranko, S.**; Jakovljević, M.; Cikoš, A.-M.; Kajić, N.; Kolarević, F.; Babić, J.; Molnar, M. Sustainable Green Procedure for Extraction of Hesperidin from Selected Croatian Mandarin Peels. Processes 2019, 7, 469.
- 2019 Stanković, A., **Šafranko, S.**, Kontrec, J., Njegić Džakula, B., Lyons, D. M., Marković, B., Kralj, D., Calcium Oxalate Precipitation in Model Systems Mimicking the Conditions of Hyperoxaluria. Crystal Research and Technology 2019, 54, 1800210. <https://doi.org/10.1002/crat.201800210>
- 2017 Šter, A., **Šafranko, S.**, Bilić, K. et al. Urolithiasis (2018) 46: 243. <https://doi.org/10.1007/s00240-017-0991-0>

OTHER PUBLICATIONS

- 2018 **S. Šafranko**, D. Goman, F. Bolić, M. Sekulić, A. Stanković, N. Matijaković, I. Erceg i B. Marković: Mechanochemical Synthesis of Calcium Oxalate, KUI-21/2018

Conferences

INTERNATIONAL CONFERENCES

- 2019 12th European Congress of Chemical Engineering / 5th European Congress of Applied Biotechnology; Florence, Italy
Title Prediction of Hesperidin Content in Orange Peel Extract using Artificial Neural Network Model – **poster presentation** (authors: Jokić, Stela; **Šafranko, Silvija**; Jakovljević, Martina; Cikoš, Ana-Marija; Bilić, Mate; Molnar, Maja)
- 2019 10th International Congress Flour-Bread'19; 12th Croatian Congress of Cereal Technologists Brašno-Kruh'19; Osijek
Title An Image Processing Approach for Color-Based Sorting and Counting of Selected Cereals – **poster presentation** (authors: **Šafranko, Silvija**; Cikoš, Ana-Marija; Banožić, Marija; Stanković, Anamarija; Jokić, Stela)
- 2019 26th Croatian Meeting of Chemists and Chemical Engineers; Šibenik
Title Investigating the morphological properties of calcium oxalate monohydrate: crystal formation in systems with different chemical complexity – **poster presentation** (authors: Stanković, Anamarija; **Šafranko, Silvija**; Kontrec, Jasminka; Njegić Džakula, Branka; Lyons, Daniel Mark; Marković, Berislav; Kralj, Damir)
- 2019 8th International Scientific and Professional Conference Water for all; Osijek
Title Prediction of Groundwater Hardness in Slavonia using Artificial Neural Network Models – **poster presentation** (authors: **Šafranko, Silvija**; Vešligaj Turkalj, Jelena; Romić, Željka; Stanković, Anamarija; Jokić, Stela; Medvidović-Kosanović, Martina)
- 2018 17th Ružička Days - "Today Science - Tomorrow Industry" Vukovar
Title Digital technology in quantitative colorimetric analysis – **oral presentation** (authors: **Šafranko, Silvija**; Živković, Pavo; Stanković, Anamarija; Sečenji, Aleksandar)
- 2018 17th Ružička Days - "Today Science - Tomorrow Industry" Vukovar
Title Calcium oxalate precipitation in model systems mimicking hyperoxaluria conditions – **poster presentation** (authors: Anamarija Stanković, **Silvija Šafranko**, Jasminka Kontrec, Branka Njegić Džakula, Daniel M. Lyons, Berislav Marković, Damir Kralj)
- 2018 1st International Students` GREEN Conference, Osijek
Title ColorX: A modified colorimetric method for quantitative analysis in simple systems – **oral presentation** (authors: **Šafranko, Silvija**; Živković, Pavo; Stanković, Anamarija; Sečenji, Aleksandar)
- 2018 1st International Students` GREEN Conference, Osijek
Title New methods for biomaterial preparation: Mechanochemical synthesis of calcium oxalate monohydrate – **poster presentation** (authors: **Šafranko, Silvija**; Goman, Dominik; Bolić, Filip; Sekulić, Marina; Stanković, Anamarija; Matijaković, Nives; Marković, Berislav)
- 2017 13th Multinational Congress on Microscopy; Rovinj
Title Microscopy in Urolithiasis Research – **poster presentation** (authors: Vesna, Babić-Ivančić; Maja, Dutour Sikirić; Anamarija, Stanković; **Silvija, Šafranko**)
- 2016 16th Ružička Days - "Today Science - Tomorrow Industry" Vukovar
Title Precipitation of calcium oxalate dihydrate – **poster presentation** (authors: **Šafranko, Silvija**; Bilić, Katarina; Šter, Anamarija; Marković, Berislav; Kralj, Damir)

NATIONAL AND REGIONAL CONFERENCES

- 2019 13th Osijek Urology Days and 5th Osijek Nephrology Days; Osijek
Title Utjecaj kompleksnosti sustava na taloženje kalcijeva oksalata u laboratorijskim uvjetima – **oral presentation** (authors: Babić-Ivančić, Vesna; **Šafranko, Silvija**; Jurišić, Katarina; Bijelić, Jelena; Jokić, Stela; Stanković, Anamarija; Medvidović- Kosanović, Martina)
- 2018 5th Symposium of Chemistry Students; Zagreb, PMF
Title Sinteza kalcijeva oksalata monohidrata primjenom planetarnog kugličnog mlina – **oral presentation** (authors: Sekulić, Marina; Goman, Dominik; Bolić, Filip; **Šafranko, Silvija**; Stanković, Anamarija; Marković, Berislav; Đerđ, Igor)

- 2018 XII Meeting of Young Chemical Engineers; Zagreb, FKIT
 Title Mehanokemijska sinteza kalcijeva oksalata – **poster presentation** (authors: **Šafranko, Silvija**; Goman, Dominik; Bolić, Filip; Sekulić, Marina; Stanković, Anamarija; Buljan Meić, Iva; Marković, Berislav; Kralj, Damir)
- 2017 4th Symposium of Chemistry Students; Zagreb, PMF
 Title Taloženje kalcijevih oksalata u uvjetima hiperoksalurije – **oral presentation** (authors: **Šafranko, Silvija**; Stanković, Anamarija; Marković, Berislav; Kralj, Damir)
- 2017 12th Osijek Urology Days and 5th Osijek Nephrology Days, Osijek
 Title Urolitijaza i nastajanje kalcij oksalatnih kamenaca - Istraživanja u jednostavnom modelnom sustavu i u sustavu umjetnog urina u uvjetima hiperoksalurije – studentska sekcija; **oral presentation** (authors: **Šafranko, Silvija**; Stanković, Anamarija; Kontrec, Jasminka; Marković, Berislav; Kralj, Damir)
- 2016 3rd Symposium of Chemistry Students; Zagreb, PMF
 Title Djelovanje hidrodinamičkih i termodinamičkih čimbenika te aditiva na taloženje kalcijeva oksalata – **oral presentation** (authors: **Šafranko, Silvija**; Šter, Anamarija; Marković, Berislav; Kralj, Damir)

OTHER CONFERENCES:

- 2018 45th Primatijada, Scientific and Sports Student Manifestation, Budva, Montenegro, 2018.
 Title The effect of hydrodynamic and thermodynamic factors and the addition of citric acid on the precipitation of calcium oxalate dihydrate – **oral presentation** (authors: **Šafranko, Silvija**; Stanković, Anamarija; Marković, Berislav)

Awards

- 2019 Best Poster Award - 10th International Congress Flour-Bread'19; 12th Croatian Congress of Cereal Technologists Brašno-Kruh'19; Osijek
 Title An Image Processing Approach for Color-Based Sorting and Counting of Selected Cereals – **poster presentation** (authors: **Safranko, Silvija**; Cikoš, Ana-Marija; Banožić, Marija; Stanković, Anamarija; Jokić, Stela)
- 2018 Dean's award for Academic achievement (the best second year student, graduate study - academic year 2017/2018)
- 2018 Best Poster Award - 17th Ružička Days - "Today Science - Tomorrow Industry" Vukovar
 Title Calcium oxalate precipitation in model systems mimicking hyperoxaluria conditions – **poster presentation** (authors: Anamarija Stanković, **Silvija Šafranko**, Jasminka Kontrec, Branka Njegić Džakula, Daniel M. Lyons, Berislav Marković, Damir Kralj)
- 2018 Rector's award for the academic year 2017/2018
- 2018 3rd place award (Scientific Paper Competition) - 45th Primatijada, Budva, Montenegro, 2018.
 Title The effect of hydrodynamic and thermodynamic factors and the addition of citric acid on the precipitation of calcium oxalate dihydrate – **oral and poster presentation** (authors: **Šafranko, Silvija**; Stanković, Anamarija; Marković, Berislav)
- 2017 Rector's award for the academic year 2016/2017

Memberships

- 2018 Membership in Croatian Chemical Society (HKD)