

Sana Čamo

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EDUCATION AND TRAINING

Master of Chemistry

Faculty of Natural Sciences and Mathematics, University of Sarajevo [Sep 2019 – Oct 2020]

City: Sarajevo

Country: Bosnia and Herzegovina

Thesis: Synthesis and Characterization of Copper (II) Complexes with Selected Amino Acids. Mentor: Professor Nevzeta Ljubijankić

Laboratory and other scientific skills learned: preparation of four complexes that were separately synthesized by heating Cu (II) chloride with ligands in non-aqueous methanol under reflux condenser at the specific temperature for hours, followed by testing the solubility of the synthesized substances in different organic solvents; recording the spectra of the certain amino acids and obtained complexes by Fourier-transform infrared (FTIR) spectroscopy using KBr pastille technique under mentor supervision; evaluation and characterization of reactants and products with a proposition of the possible product structures; conduction of theoretical research along with the experimental work which was used to write the Master thesis.

Bachelor of Chemistry

Faculty of Natural Sciences and Mathematics, University of Sarajevo [Sep 2013 – Mar 2019]

City: Sarajevo

Country: Bosnia and Herzegovina

Thesis: Effect of Ultrasound on Reduced Graphene Oxide. Mentor and referee: Assistant Professor Sanjin Gutić

Laboratory and other scientific skills learned: preparation of graphene oxide suspensions in different medias; operating on spectrophotometer for the concentration adjustment of the suspensions; operating on an ultrasound for the aim of exposing previously made graphene oxide suspensions; purification of the suspensions by centrifugation; preparation of thin film on glassy carbon electrode from previously purified suspensions using vacuum; conduction of measurements using cyclic voltammetry technique to examine electrochemical properties; analysis of obtained results in excel; conduction of theoretical research on methods and techniques for the preparation of reduced graphene oxide and detailed experimental procedure. which was used to write Bachelor thesis.

E-mail of the mentor: sgutic@pmf.unsa.ba

Scientific Laboratory Trainee

Laboratory of Technological Processes, Faculty of Chemistry, Warsaw University of Technology [1 Oct 2018 – 1 Dec 2018]

City: Warsaw

Country: Poland

Research on synthesis of novel amphiphilic cationic polymers having bactericidal properties and examining antibacterial activity of obtained compounds and their interactions with model bacterial membrane

Supervisor: Professor Dominik Janczewski

Co-supervisor and referee: Dr Rafal Kopiasz (e-mail: rafal.kopiasz@nottingham.ac.uk)

Main duties: preparing samples which included dissolution of the substances in non-aqueous media and inert atmosphere and purification of made solutions using rotary evaporator under vacuum, documenting all activities, maintaining cleanliness, orderliness and supplies

Presenter

Faculty of Chemical Engineering and Technology, University of Zagreb [27 Feb 2018 – 28 Feb 2018]

City: Zagreb

Country: Croatia

Poster presentation at the: XII MEETING OF YOUNG CHEMICAL ENGINEERS

Title of the poster: Reduced Graphene oxide - Faradaic processes and Pseudocapacitance contribution

Authors: Armin Hrnjić, Stefan Marković, Adna Kevrić, Sana Čamo, Azra Merzić, prof. Sanjin Gutić

Member

International Association for the Exchange of Students for Technical Experience (IAESTE) [Sep 2014 – Dec 2018]

City: Sarajevo

Country: Bosnia and Herzegovina

Gymnasium

Treća gimnazija [Aug 2008 – May 2012]

City: Sarajevo

Country: Bosnia and Herzegovina

Level in EQF: EQF level 4

PROJECTS

Myeloperoxidase and Inducible Nitric Oxide Synthase as Biomarkers of Inflammation in Subjects with Chronic Coronary Syndrome and Diabetes Mellitus Type 2

[14 Sep 2023 – Current]

Aim of the project: to prove the different concentration ratio of nitric oxide and myeloperoxidase as possible biomarkers in patients with chronic coronary syndrome and diabetes mellitus type 2 and patients with only diabetes mellitus type 2.

Project leader and referee: Prof. Dr Semira Galijašević

E-mail: semira.galijasevic@ssst.edu.ba

WORK EXPERIENCE

Senior Teaching Assistant of Medical Chemistry and Biochemistry

Sarajevo School of Science and Technology [31 Aug 2019 – Current]

Address: Hrasnička cesta 3A, 71 210 Sarajevo (Bosnia and Herzegovina)

Website: <https://ssst.edu.ba/>

Business or sector: Education

Personal Tutor

Freelance [May 2014 – Sep 2019]

City: Sarajevo

Country: Bosnia and Herzegovina

Providing tutoring in Chemistry to over 200 Highschool and University students

CONFERENCES AND SEMINARS

COURSE: Fundamentals of Neuroscience

[www.udemy.com, 12 Dec 2022]

Online recorded lectures, held by dr. Syed M. Najeeb. Udemy certificate will be available upon completing the entire course.

SEMINAR: Preparation of Solid Samples and Elementary Analysis by Chromatographic and AAS/ICP Techniques, Characterization of Particles by Laser Diffraction Methods, Analysis of Proteins and Fats by Automatic Kjeldahl Digestion and Soxhlet Extraction

[University Sarajevo School of Science and Technology, 21 Mar 2022 – 21 Mar 2022]

Held by Mikro+Polo, Sarajevo, Bosnia and Herzegovina

A TRAINING: Handling of OMNIATAP 6 Stakpure Apparatus for Ultrapure water

[University Sarajevo School of Science and Technology, 19 Jan 2022 – 19 Jan 2022]

Held by Mikro+Polo, Sarajevo, Bosnia and Herzegovina

WEBINAR: Dissemination of the Knowledge on Application of Ionizing Radiation for Sterilization of Medical Equipment, Personal Protection Equipment and the other Microbiologically Infected Objects

[Zoom platform, 6 Oct 2020 – 6 Oct 2020]

Held by Institute of Nuclear Chemistry and Technology in the frame of the Central European Initiative Project (CEI) Extraordinary Call for Proposals 2020 with support of International Atomic Energy Agency (IAEA) action

VOLUNTEERING

Volunteer

[Home for children without parental care Bjelave, Sarajevo, Bosnia and Herzegovina, 1 Jun 2013 – 1 Jun 2014]

Project: OLDER BROTHER, OLDER SISTER

Main duties: providing support to one child in acquiring social skills through socializing on a weekly basis, developing competencies required for working with children at risk, participating in group and individual counseling meetings and educational workshops organized by the Institute for addiction prevention NARKO-NE

LANGUAGE SKILLS

Mother tongue(s): **Bosnian** | **Croatian** | **Serbian**

Other language(s):

English

LISTENING C2 READING C2 WRITING C2

SPOKEN PRODUCTION C2 SPOKEN INTERACTION C2

German

LISTENING A2 READING A2 WRITING A2

SPOKEN PRODUCTION A2 SPOKEN INTERACTION A2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

ORGANISATIONAL SKILLS

Detailed skills description

- Great organizational skills gained as a participant of workshops such as Active Citizens, Student entrepreneurship and similar organized by the Institute for Youth Development KULT, Association GEA, respectively and as a junior trainer who gained workshop leading experience at the 36th Central European Convention organized by International Association for the Exchange of Students for Technical Experience (IAESTE)

COMMUNICATION AND INTERPERSONAL SKILLS

Detailed skills description

- Great communication skills gained through my experience as a participant of soft skills training (business communication, emotional intelligence & creative thinking) which was held by Electrical Engineering Students' European Association (EESTEC) trainers

JOB-RELATED SKILLS

Detailed job description of the title of Senior Teaching Assistant

- Leads discussion sessions, tutorials and laboratory sessions
- Guides class discussions
- Supervises laboratory work
- Demonstrates the use of laboratory equipment and instructs on health and safety rules in a laboratory
- Evaluates and grades examinations, assignments or papers and records grades in an electronic system of student records

- Develops teaching materials, such as syllabi, additional materials for students, exams, supplementary notes or course web sites
- Creates technology-based learning materials
- Develops instructional materials
- Distributes instructional or library materials
- Provides assistance to faculty members, or staff with laboratory or field research
- Assists other education professionals with projects or research
- Holds preparatory classes and composes entrance exams
- Participates in organization of the open days at the University

SUBJECTS:

1. Holds laboratory practicals for the 1st year Medicine and Dentistry students (2019-) for the following subjects: Medical Chemistry and Biochemistry I and Medical Chemistry and Biochemistry II
2. Holds laboratory practicals for the 2nd year Pharmacy students (2022-) for the following subject: Biochemistry
3. Holds laboratory practicals for the 3rd year Pharmacy students (2022-) for the following subject: Pharmaceutical Chemistry I and Pharmaceutical Chemistry II
4. Held laboratory practicals for the 1st year Pharmacy students (2020-2021) for the following subjects: Analytical Chemistry I, Analytical Chemistry II, General Chemistry and Inorganic Chemistry
5. Student Academic Advisor
6. Coordinator and moderator of the 10th Annual Bosnian-Herzegovinian American Academy of Arts and Sciences (BHAAAS) at University Sarajevo School of Science and Technology

DRIVING LICENCE

Driving Licence: B1

Driving Licence: B

Driving Licence: BE