

PERSONAL INFORMATIONS

Ileana Maria Simion

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PROFESSIONAL
EXPERIENCE

31.03.2020 – present

Assistant Editor

Multidisciplinary Digital Publishing Institute

As an assistant editor in MDPI my main job is supervising the publication process of scientific manuscripts from submission to publication.

This includes implies:

- Finding suitable academicians that can provide a professional opinion regarding the papers. In this regard, we use a database comparing and selecting characteristics of an individual that are suitable to the area in which the paper will be published.
- Find suitable guest editors to serve for the new Special Issues created for them. I extract and analyze data found on university web sites and extract information from publishing databases to find specific profile of academics that will perfectly match the scientific profile of the Special Issue. Also, I compile lists from extracted data with internal tools.
- I work with internal tools that process data from lists extracted from the Web of Science.
- I also support and maintain the editorial process for academic research journals in many domains of expertise.
- I organize the peer-review process for submitted manuscripts by researching internal data base that contain specific experts to find the one that match the scope of the new article.
- I also handle email communication between the parties involved in the publication process and make sure that all the information is presented correctly and precise without any delay.
- I maintain a good collaboration and communication with other members of the editorial team and production team to achieve the best results.

10/2018–
03/2020

Chemist (Quality Control Department)

Plantextrakt, Cluj-Napoca

Planning and checking subordinate personnel.

Carrying out analyzes of intermediate, bulk and finished products according to the specifications and approved analytical methods, with appropriate equipment and their calibration, as the case may be.

Performing analyzes on samples of intermediate or bulk products; Completing and self-verifying the data from the control protocols, drawing up the analysis bulletins.

Carrying out qualification analyses, validation and stability studies drawn up by the hierarchical boss Preparation of reagents. Leads the investigation of out-of-specification results. Order and receive reagents. Responsible for the evidence and management of toxic substances and drug precursors.

EDUCATION

10/2015–11/2021

PhD

Chemistry and Chemical Engineering University, Babes Bolyai, Cluj-Napoca

Doctoral thesis – Characterization and fingerprinting of Romanian medicinal plant extracts

- laboratory research to determine a general classification of commercially procured medicinal plant tinctures based on chemical composition; quantitative and semi-quantitative determination of the antioxidant capacity by different methods.
- Separation of biologically active compounds from plants using thin layer chromatography, UV-Viz spectroscopy, high-performance liquid chromatography
- Determination of the antioxidant capacity of extracts using various methods (ABTS, DPPH, FRAP, CUPRAC).

- Processing of chromatographic plates using Spectra Manager software.
- Application of chemometric methods on the obtained data set.
- Acquired skills: organizational skills, use of statistical programs, attention to details, literature review, sample preparation methods.

02/2016–04/2016

PhD

Politehnica Gdanska, Gdanska, Poland

- laboratory research to determine the lipophilicity of phenolic compounds present in food.
- Preparation of extracts using standard and high-performance liquid chromatography.
- Application of chemometric data on the obtained data set
- Organizational skills: statistical methods, attention to details, sample preparation methods

10/2013–06/2015

Master (Advanced Chemistry)

Chemistry and Chemical Engineering University, Babes Bolyai, Cluj-Napoca

- laboratory research to determine a general classification of teas (Sanziana) from different producers, using different extraction systems; determination of total flavonoids and polyphenols.
- the preparation of extracts using the dried plant and different extraction systems and the separation of the compounds present in the plants by high-performance liquid chromatography.
- determination of total flavonoids and polyphenols from the investigated teas by UV-Vis Spectroscopy.
- spectra processing with Spectra Manager software.
- application of chemometric methods on the data set obtained from the UV-Vis spectra.
- skills: organizational skills, Statistics, attention to details, sample preparation methods.

09/2010–06/2013

Bachelor

Chemistry and Chemical Engineering University, Babes Bolyai, Cluj-Napoca

- -laboratory research to determine a general classification of teas (Sanziana) from different producers, using different extraction systems; determination of total flavonoids and polyphenols.
- the preparation of extracts using the dried plant and different extraction systems and the separation of the compounds present in the plants by high-performance liquid chromatography.
- determination of total flavonoids and polyphenols from the investigated teas by UV-Vis Spectroscopy.
- spectra processing with Spectra Manager software.
- application of chemometric methods on the data set obtained from the UV-Vis spectra.
- skills: organizational skills, Statistics, attention to details, sample preparation methods.

09/2010–06/2013

High school

Profile: Mathematics-Informatics, "Dragos Voda" National College, Sighetu Marmatiei, Maramures

During my highscool years I have intensively studied mathematics and informatica obtaining a diploma in C++, My SQL and HTML

PROFESSIONAL COMPETENCES

Mathernal Language Romanian

Other languages

English

UNDERSTANDING		SPEAKING		WRITTING
Listening	Reading	Conversation	Speach	
B2	B2	B2	B2	B2

French

B1

B2

B1

B1

B1

AUTOEVALUATION

Digital competences

Information Processing	Communication	Content writing	Security	Problem Solving
Experimentat	Experimentat	Experimentat	Experimentat	Independent

Professional certifications

Certification in informatics (C++, My SQL, Windows Vista, MS-Social Media certification)

1. **Simion Maria**, Cobzac Simona Codrțuța, Casoni Dorina. Image analysis approaches to improve the thin layer chromatography-chemometric based investigations of natural extracts. *STUDIA UBB CHEMIA*, **2017**, *62*, 67–80. (FI: 0,494)
2. **Simion Ileana Maria**, Casoni Dorina, Sârbu Costel. [Characterization and classification of medicinal plants according to their antioxidant profile estimated by thin layer chromatography assisted by chemometric expertise](#). *J. Liq. Chrom. Relat. Tech.* **2018**, *41*(6), 342–348. (FI: 0,992)
3. **Simion Ileana Maria**, Pop F. Horia, Sârbu Costel. [Spectrophotometric characterization of Roumanian medicinal herbs assisted by robust chemometrics expertise](#). *Rev. Roum. Chim.* **2018**, *63*(5-6), 489–496. (FI: 0,381)
4. **Simion Ileana Maria**, Casoni Dorina, Sârbu Costel. [Classification of Romanian medicinal plant extracts according to the therapeutic effects using thin layer chromatography and robust chemometrics](#). *J. Pharm. Biomed. Anal.* **2019**, *163*, 137–143. (FI: 3,935)
5. Casoni Dorina, **Simion Ileana Maria**, Sârbu Costel. [A comprehensive classification of edible oils according to their radical scavenging spectral profile evaluated by advanced chemometrics](#). *Spectrochim. Acta A Mol. Biomol. Spectrosc.* **2019**, *213*, 204–209. (FI: 3,232)
6. **Simion Ileana Maria**, Sârbu Costel. [The impact of the order of derivative spectra on the performance of pattern recognition methods. Classification of medicinal plants according to the phylum](#). *Spectrochim. Acta A Mol. Biomol. Spectrosc.* **2019**, *219*, 91–95. (FI: 3,232)
7. **Simion Ileana Maria**, Moț C. Augustin, Sârbu Costel. *Finding specific peaks (markers) using fuzzy divisive hierarchical associative-clustering based on the chromatographic profiles of medicinal plant extracts obtained at various detection wavelengths*. *Anal. Methods*. **2020**, *12*(25), 3260–3267. (FI: 2,896)
8. **Simion Ileana Maria**, Moț C. Augustin, GĂceanu D. Radu, Pop F. Horia, Sârbu Costel. [Characterization and Classification of Medicinal Plant Extracts According to Their Antioxidant Activity Using High-Performance Liquid Chromatography and Multivariate Analysis](#). *STUDIA UBB CHEMIA*, **2020**, *65*, 71–82. (FI: 0,494)
9. **Simion Ileana Maria**, Casoni Dorina, Sârbu Costel. [Multivariate color scale image analysis–Thin layer chromatography for comprehensive evaluation of complex samples fingerprint](#). *J. Chromatogr. B Biomed. Appl.* **2021**, *1170*, 122590. (FI: 3,205)

