



**Europass
Curriculum Vitae**

Personal information

First name(s) / Surname(s) **Cecilia Lete**

Address

Telephone

E-mail clete@icf.ro; cecilia [redacted]

Nationality Romanian

Date of birth [redacted]

Gender female

Work experience

Dates- Occupation or position held
2001-present- Senior Researcher
1996-2001 –Junior Researcher
1993 -1996 - Research Assistant

Main activities and responsibilities
- preparation and characterization of conducting polymers (Cyclic Voltammetry, Chronoamperometry, Electrochemical Quartz Crystal Microbalance, Electrochemical Impedance Spectroscopy, and UV-Vis Spectroscopy);
- development of biosensors and sensors for the determination of biological compounds and different pollutants (Chronoamperometry, Differential Pulse Voltammetry, Cyclic Voltammetry, and Electrochemical Impedance Spectroscopy);
- obtaining new electrochemical sensors and biosensors based on microelectrodes and microelectrode arrays modified by (bio)composite materials;
- development of methods and analytical devices for the determination of dopamine, epinephrine, serotonin, α -lipoic acid, melatonin, quercetin, and ascorbic acid;
- electrochemical methods for the preparation of metallic nanoparticles and inorganic-organic composite materials

Name and address of employer Institute of Physical Chemistry "Ilie Murgulescu" of the Romanian Academy, Spl. Independentei 202, 060021, Bucharest, Romania

Type of business or sector Electrochemistry and Corrosion Department

Education and training

Dates

Title of qualification awarded

Principal subjects/occupational skills covered

Name and type of organization providing education and training University of Bucharest, Faculty of Chemistry

Dates March 1994- June 2001

Title of qualification awarded PhD Degree

Principal subjects/occupational skills covered Chemistry – Electrochemical behavior of several organic and inorganic compounds

Name and type of organization providing education and training University of Bucharest, Faculty of Chemistry

Dates September 1987- July 1992

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|--|---|------------------|---------|------------------|--------------------|------------------|-------------------|------------------|----------------|------------------|
| Title of qualification awarded | Chemist | | | | | | | | | |
| Principal subjects/occupational skills covered | Organic Chemistry | | | | | | | | | |
| Name and type of organisation providing education and training | University of Bucharest, Faculty of Chemistry | | | | | | | | | |
| Personal skills and competences | Modified electrodes, Electroanalysis, Conducting polymers and Organic Electrochemistry | | | | | | | | | |
| Mother tongue(s) | Romanian | | | | | | | | | |
| Other language(s) | | | | | | | | | | |
| European level (*) | | | | | | | | | | |
| Language | Understanding | | | | Speaking | | | | Writing | |
| | Listening | | Reading | | Spoken interaction | | Spoken production | | | |
| English | C1 | Experienced user | C1 | Experienced user | C1 | Experienced user | C1 | Experienced user | C1 | Experienced user |
| Italian | B2 | Independent user | B2 | Independent user | B1 | Independent user | B1 | Independent user | B1 | Independent user |
| Social skills and competences | Teamwork, creativity | | | | | | | | | |
| Organizational skills and competences | <p>Responsible for several research projects: “Innovative electrochemical sensors for clinical and environmental analysis” (2006-2008) with Polytechnica University;</p> <p>“Innovative systems for fast evaluation of potential toxic substances in food and beverage” with ICECHIM (2006-2008);</p> <p>"Heteroaromatic compounds stabilized by azulene substitution. Synthesis, study of their physico-chemical and electrochemical properties, uses in nonlinear light transmission (NLO) technique" with CCO „C. Nenitescu” (2005-2008)</p> <p>„Electrochemical sensors based on nanocomposite materials with applications in the analysis of biologically active compounds” with Polytechnica University (2022-2024)</p> | | | | | | | | | |
| Computer skills and competences | <p>Operating Systems: Windows 2000-2011, XP, Vista, Microsoft Power Point, Microsoft Excel, Microsoft Word, OriginPro 8, ZView software, GPES, NOVA, PSTrace</p> <p>Reviewer for: <i>Electrochimica Acta, Analytical Methods, Materials Chemistry and Physics, Talanta, Buletinul Universitatii Politehnica Bucuresti, Biosensors and Bioelectronics, Sensors, Biosensors, Micromachines, Review Romaine de Chimie,</i></p> <p>Member of the Romanian Chemical Society</p> <p>Member of the International Society of Electrochemistry</p> | | | | | | | | | |

Training stages and courses:

Since 2002, I have worked with **Prof. Ari Ivaska** at the Analytical Chemistry Laboratory, Åbo Akademi University (Turku, Finland), on the synthesis and characterization of polyazulene films using Raman and in situ FTIR-ATR methods. I completed multiple short research fellowships there in **2003, 2004, 2005, 2006, 2007, 2008, and 2012**.

For April **2008**, specialization stage in sensors at Tor Vergata University, Rome, Italy. Professor Dr. **Giuseppe Palleschi**.

Specialization Training – University of Turku, Finland (Nov–Dec 2012)
Completed advanced training in **conducting polymers** under the supervision of **Professor Dr. Docent Carita Kvarnström**.

In July 2013, I completed a specialization training in microelectrode arrays at the Microelectronics Institute of Barcelona, under the supervision of **Dr. Francisco Javier del Campo**.

For May-June **2015**, specialization stage at UTINAM UMR Institute, Université de Franche-Comté, Besançon, Franța. Research group: Prof. Dr. **Jean-Yves HIHN**.

In July 2016, I attended a short stage at the Faculty of Science, University of Cadiz, Spain, under the guidance of Professor **Jose Maria. Palacios.Santander**

In the summer of 2017 (June–July), I was invited as a specialist for a research stay at the Faculty of Science, University of Cádiz, Spain, where I worked with **Prof. José María Palacios Santander and Dr. Laura Cubilliana Aguilera**.

2017-2019 „Electrosynthesis and electroanalytical applications of nanocomposites materials based on conducting polymers” –Sofia, Bulgaria, **Prof. DSc Vessela Tsakova - Stancheva**

Postdoctoral Research Fellow – University of Rome “Tor Vergata” (2003-2004)

- Participated in the European project “**Novtech**” (CT-2002-00186): **Novel Technology for Controlling Wine Production and Quality**, focused on developing biosensors and sensors for glucose determination in wines from various regions of Italy.
- Conducted analytical studies on ammonia detection in drinking water.

Short-Term Research Stages– University of Rome “Tor Vergata” (2006, 2007, 2008)

- Completed multiple short research fellowships within the **Department of Chemical Science and Technology**, collaborating with **Professor Giuseppe Palleschi’s group**

Additional information

Books and chapter of books

- S. Lupu, C. Lete, C. Mihailciuc, A. C. Răzuș, L. Bîrzan, *Electrochemical sensors for clinical analysis and environment*, Ed. Printech, Bucharest, 228 pg., ISBN 978-606-521-053-0, Cod CNCSIS 54, **2008**.
- M. Badea, M. C. Cheregi, C. Lete, S. Lupu, *Progress in sensors and biosensors for controlling food quality* Ed. Printech, București, 180 pg., ISBN 978-606-521-086-8, Cod CNCSIS 54, **2008**.
- S. Lupu, C. Lete, N. Totir, *Chemical modified electrodes*, Ed. Printech, București, 152 pg., ISBN 973-652-483-3, Cod CNCSIS 54, **2001**.
- S. Lupu, P. C. Balaure, C. Lete, C. Mihailciuc, *Biocomposite nanomaterials for electrochemical biosensors*, in Nano-aspects of Electrochemistry: Electrochemical Synthesis Methods, Properties and Characterization Techniques, Springer-Verlag GmbH, **2015**, invited chapter
- S. Lupu, C. Lete, B. Lakard, J.-Y. Hihn, D. Sánchez–Molas, F. J. Del Campo, *Electrochemical deposition and patterning of composite nanomaterials for electrochemical sensors and biosensors* in Comprehensive Guide for Nanocoatings Technology, Nova Science Publishers, **2015**, invited chapter
- J. J. García-Guzmán, D. López-Iglesias, M. Marin, C. Lete, S. Lupu, J. M .Palacios Santander, L.Cubillana-Aguilera, *Electrochemical Biosensors for antioxidants*, *Advanced Biosensors for Health Care: Materials and Applications*", Elsevier **2019**

Data: 18.12.2025

Ph.D. Cecilia Lete