Europass Curriculum Vitae

Personal information

Surname(s) / First name(s)	**GROȘAN (born BERGHIAN) Ana Camelia**
Address(es)	Cluj-Napoca, Romania
Telephone(s)	0040264584037
Fax(es)	0040264420042
E-mail	camelia.grosan@itim-cj.ro
Nationality	Romanian
Gender	Female

Occupational field / Employer

Research and Development
National Institute for Research and Development of Isotopic and Molecular Technologies, 67-103 Donat Str., 400293 Cluj-Napoca, Romania, www.itim-cj.ro

Work experience

Dates	August 2013 – present: Senior Researcher grade II March 2008 - July 2013: Researcher grade III November 2006 – March 2008: Research Assistant
Main activities and responsibilities	Alternative energy: Development of new nanomaterials for fuel cell technology (synthesis, characterization and electrochemical testing) Synthesis and characterization of new hybrid nanomaterials mainly based on metallic nanoparticles and organic compounds Raman Spectroscopy applications - structural characterization and food investigations Development and surface characterization of new chemically modified electrode; electrochemical investigations for environmental and medical applications Electrochemical detection of ssDNA damage using modified electrodes based on graphene Study of cellulose bleaching using PolyOxoMetalate (POM) clusters
Name and address of employer	**National Institute for Research and Development of Isotopic and Molecular Technologies, 67-103 Donat Str., 400293 Cluj-Napoca, Romania, www.itim-cj.ro**
Type of business or sector	Research, Development, Innovation
Dates	October 2010-February 2011: Teaching Assistant
Main activities and responsibilities	Seminars and laboratory activities on drug analysis
Name and address of employer	**Iuliu Haţieganu University of Medicine and Pharmacy Cluj-Napoca; Faculty of Pharmacy; Department of Drugs Analysis**
Type of business or sector	Education and Research
Dates	November 2001-October 2006: PhD student
Main activities and responsibilities	Seminars and laboratory activities on General Chemistry; chemistry tutor for students from I.U.T. de Rouen

Name and address of employer	**Babeș-Bolyai University Cluj-Napoca; Faculty of Chemistry and Chemical Engineering, Romania** and **University of Rouen, France**
Type of business or sector	Education and Research
Dates	2000-2001 : Chemistry Teacher
Main activities and responsibilities	Teaching
Name and address of employer	**Grup Şcolar Industrial Tehnofrig, Cluj-Napoca, Romania** **Liceul Romulus Ladea, Cluj-Napoca, Romania**
Type of business or sector	Education

Education and training

Dates	November 2001-October 2006
Title of qualification awarded	Doctor's diploma
Principal subjects	Organic Chemistry Scientific Supervisors: Prof. Dr. Eng. Mircea Dărăbanțu Prof. Dr. Nelly Plé
Name and type of organisation providing education and training	**Babeș-Bolyai University Cluj-Napoca; Faculty of Chemistry and Chemical Engineering, Romania** **University of Rouen, France**
Dates	October 2000-June 2001
Title of qualification awarded	Master's degree
Principal subjects	Heterocyclic Chemistry
Name and type of organisation providing education and training	**Babeș-Bolyai University Cluj-Napoca; Faculty of Chemistry and Chemical Engineering, Romania**
Dates	October 1995-June 1999
Title of qualification awarded	Bachelor of Science
Principal subjects	Chemistry and Physics
Name and type of organisation providing education and training	**Babeș-Bolyai University Cluj-Napoca; Faculty of Chemistry and Chemical Engineering, Romania**

Personal skills and competences

Mother tongue(s): **Romanian**

Other language(s)

Self-assessment	Understanding				Speaking				Writing	
European level (*)	Listening		Reading		Spoken interaction		Spoken production			
French	C2	**Proficient User**	C2	**Proficient User**	C2	**Proficient User**	C2	**Proficient User**	C1	**Proficient User**
English	C1	**Proficient User**	C1	**Proficient User**	C1	**Proficient User**	C2	**Proficient User**	C1	**Proficient User**

(*) Common European Framework of Reference for Languages

Social skills and competences: Team work; experience in working in national and international research groups

Organisational skills and competences	Research and teaching abilities; good coordinator of research projects and students' stages
Technical skills and competences	Chemistry – good skills in laboratory techniques; measurements and data processing related to electrochemistry, Nuclear Magnetic Resonance (NMR) and Raman.
Computer skills and competences	ChemDraw, Origin, Gaussian, Diamond, Nova, MestReC
Other skills and competences	Affiliations: Member of Romanian Society of Chemistry Member of Romanian Catalysis Society Member of American Chemical Society (ACS)
Peer-review activity for international programs/projects	2015 - 2016: Expert Evaluator and Rapporteur for Horizon 2020 grants: Industrial Leadership; expertise: Advanced materials, H2020-NMBP-2016-2017 programmes (NMBP -Nanotechnologies, Advanced Materials, Biotechnology and Advanced Manufacturing and Processing).
Additional information	**Publications:** 48 papers in ISI or BDI-indexed Journals (32 in ISI-rated journals, 1 in ISI-indexed journal, 7 ISI conference proceedings and 8 in BDI-indexed journals) 1 book chapter 1 national patent, and 1 national patent application http://orcid.org/0000-0002-5885-3132 https://www.researchgate.net/profile/Camelia_Grosan https://www.brainmap.ro/ana-camelia-grosan **Hirsch index**: 10

❖ **Selected publications:**

- **C. Berghian-Grosan**,T. Radu, A. R. Biris, M. Dan, C. Voica, F.Watanabe, A. S. Biris, A. Vulcu, *Platinum nanoparticles coated by graphene layers: A low-metal loading catalyst for methanol oxidation in alkaline media*, **J. Ener. Chem.** 40 (**2020**) 81-88, doi: 10.1016/j.jechem.2019.03.003
- C. Muller Molnar, **C. Berghian-Grosan**, D. A. Magdas, *An optimized green preparation method for the successful application of Raman spectroscopy in honey studies*, **Talanta** (**2019**) *in press*, doi: 10.1016/j.talanta.2019.120432
- A. Vulcu, A. R. Biris, Gh. Borodi, **C. Berghian-Grosan***, *Interference of ascorbic and uric acids on dopamine behavior at graphene composite surface: An electrochemical, spectroscopic and theoretical approach*, **Electrochim. Acta** 282 (**2018)** 822-834**,** doi: 10.1016/j.electacta.2018.06.122
- A. Vulcu, L. Olenic, G. Blanita, **C. Berghian-Grosan***, *The electrochemical behavior of a Metal-Organic Framework modified gold electrode for methanol oxidation*, **Electrochim. Acta** 219 (**2016**) 630-637, doi:10.1016/j.electacta.2016.10.077.
- **C. Berghian-Grosan***, A. R. Biris, M. Coros, F. Pogacean, S. Pruneanu, *Electrochemical and spectroscopic studies of ssDNA damage induced by hydrogen peroxide using graphene based nanomaterials*, **Talanta** 138 (**2015**) 209-217, doi : 10.1016/j.talanta.2015.02.019.
- **C. Berghian-Grosan***, L. Olenic, G. Katona, M. Perde-Schrepler, A. Vulcu, *L-Leucine for gold nanoparticles synthesis and their cytotoxic effects evaluation*, **Amino Acids** 46 (**2014**) 2545-2552, doi: 10.1007/s00726-014-1814-z.
- M. Crisan, L. David, B. Moldovan, A. Vulcu, S. Dreve, M. Perde-Schrepler, C. Tatomir, A. G. Filip, P. Bolfa, M. Achim, I. Chiorean, I. Kacso, **C. Berghian Grosan**, L. Olenic, *New nanomaterials for the improvement of psoriatic lesions*, **J. Mater. Chem. B** 1 (**2013**) 3152-3158, doi: 10.1039/C3TB20476F.
- **C. Berghian Grosan***, C. Varodi, A. Vulcu, L. Olenic, S. Pruneanu, V. Almasan, *Structural and electrochemical characterization of novel leucine-gold nanoparticles modified electrode*, **Electrochimica Acta** 63 (**2012**) 146-152, doi: 10.1016/j.electacta.2011.12.071**.**

❖ **Book chapter:** L. Olenic, M. Crisan. A. Vulcu, **C. Berghian-Grosan**, D. Crisan, I.Chiorean, Chapter 18: Green nanomaterials for psoriatic lesions in *Nanomaterials and Regenerative Medicine*, Yunfeng Lin, Tao Gong (Eds), IAPCB-OBP, Zagreb, Croatia, **2016** pp.477-508.

❖ **Patents:**

- RO-1. L. Olenic, A. Vulcu, **C. Grosan**, S. Dreve, *Production process of hybrid materials based on gold nanoparticles and anthocyanins.* Patent no. RO130210 B1 (30.07.2018)
- RO-2. L. Olenic, A. Vulcu, C. Grosan, S. Dreve, New materials based on silver nanoparticles and anthocyanins obtained from natural extracts for medical applications, Patent No. RO130666-A2.