



Personal data

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USF-ID U-1700-034S-4241
Nationality ROMÂNĂ
Data of birth 18 aprilie 1967
Sex Feminin

Studies/Education

Doctoral Studies **2013-2016; Doctoral studies**, with thesis:., **Carbon nanostructures with photoluminescent properties**", Prof.dr ing. Daniel-Mircea SUTIMAN, University "Gheorghe Asachi" Iași-(Chemistry field nr. **3148** din 30.01.2017),
Advanced Master's Studies **2011-2013; Master** - University "Al. I Cuza" Iasi - Cosmetic and Pharmaceutical Chemistry specialization, „**Determination of heavy metals in medicinal plants**”, Conf. Univ. dr. Romeo-Iulian OLARIU.
University Studies **1991-1996**; Technical University "Gh.Asachi" Iasi - Macromolecular Technology specialization

Professional Experience:

Sep.2020-present Scientific research assistant

University "Gheorghe Asachi" from Iași
"Cristofor Simionescu" Faculty of Chemical Engineering and Environmental Protection-Research Center "Polimeri"

Ian.2020-Sep.2020 Head of Ovule Section,

IRCON S.R.L from Iași (pharmaceutical industry).

Feb. 2017-Ian 2020 Chemical Engineer,

Ovule Section, IRCON S.R.L from Iași (pharmaceutical industry).
Supervision of a shift (8-10 employees), within the pharmaceutical industry.
- Supervising the serialization activity, applying the device against illicit modifications (obvious tampering) on secondary packaged and serialized units, creating in the Tracekey web application the commands necessary for serialization, reporting to the EU HUB (EMVO-European Medicines Verification Organization). Preparation of documents specific to the activity carried out (procedures specific to the workplace, Serial file). Inspection and supervision regarding the realization of the manufacturing stages, the work parameters and the recording of each stage, according to the procedures and work instructions, the calculation of yields.

Dec.2009-Ian 2017 Route Settlement (RS), financial department - data entry - customer complaint management, Coca-Cola HBC Company, Romania, Iași, headquarters
National management of financial complaints, sales/deposit reconciliations (for 3 counties) and contractor reconciliations

2001-2009 Production Supervisor training (room syrups, and waste water treatment).

Coca-Cola HBC Company, Romania, Iași, headquarters
Supervision of a shift (12-15 employees), in the syrup manufacturing sector, drinking and waste water treatment, quality control. Planning, organizing and coordinating activities within the production preparation team, implementing work procedures; organizing the activities of subordinates and involving them in different areas by type of activities, tracking and applying all technological processes, technical instructions. Preparation of production and non-conformity reports, tracking the achievement of production and quality indicators, the standard operation of the wastewater treatment plant.

1999-2001 Quality technician –Quality assurance –

Coca-Cola HBC Company, Romania, Iași, headquarters

- Carrying out specific analyzes and tests to ensure the quality of the product and packaging during the entire technological process of preparing soft drinks, starting and establishing the normal operating regime of the bottling line; taking corrective measures when the quality tests of products, packaging and ingredients are outside the standards.
- Preparation and standardization of laboratory solutions. Calibration and verification of laboratory equipment.
- Performing the reception of raw materials and materials. Perform statistical calculation for basic processes.
- Using UV-VIS Spectrophotometry, in absorbance determinations for colored solutions (for sugar-free drinks)
- Carrying out specific analyzes and tests to monitor the quality assurance of raw water from the city supply network and treated water, establishing the normal operating regime, adjusting the dosages for the water treatment pumps and the operation within the admissibility limits of the water treatment station.
- Carrying out specific analyzes and tests to monitor the quality assurance of the waste water of the treatment plant for the standard operation of the treatment plant.

1996-1999 Marketing - Sales

Coca-Cola HBC Company, Romania, Iași, headquarters

Participation in various market studies, coordinated teams of students in projects launch of various products in the market, and after graduation I was employed in marketing-sales department.

Qualification/diploma

obtained

2017 – GCP Rules (Rules of Good Practice in Clinical Trials), good practice guide for conducting bioequivalence studies, **GMP Rules for MIC**-Manufacturing drugs for clinical investigation – **prof. Isabela Ghiță**

2017 - Quality assurance of the medicines 24-hour course at the University "Dunarea de Jos", din Galați

2009 - Legislation - Safety and Health at Work , endorsed by professional training center of Labour Inspection , conducted in December 2009 - under 80h

2009 - Training on teaching the fundamentals of hygiene, approved by the Ministry of Health, conducted in 2009i,

01.2008- 01.2009 - English - Language : diploma at the International House in Business English level Pre intermediate,

2008 " Statistical Process Control - SPC , including measurement system analysis , MSA , with firm guidance Quasaro SRL ing.Mihai Alexndru Enatescu (chief auditor IRCA and RENA)

2007 "Application of quality instruments " with the following content : problem solving , data collection, brainstorming , layering , weighted voting method, questions , graphs, flow aperture , Pareto diagram , cause and effect diagram , the dispersion diagram , tree diagram , chart and diagram arrow matrix ; training course was made with the company under the guidance ing.Tatiana Samoila Quasaro SRL (AFAQ auditor ASCERTsi chief auditor RENA),

2007 - " Waste Water Treatment " claimed Mrs. Rodica Munteanu in the firm RomEnviro Serv Bucharest ,

2006 - Implementation and continuous improvement of food safety management system , HACCP principles SC Caliprof Consult SRL Company ; prof.univ.Adrian Chira conducted

2006 Training on teaching the fundamentals of hygiene, approved by the Ministry of Health;

Personal skills and competences

Foreing language

English-Language-medium.

Franch-Language-bigger.

Competence Areas

Research Areas

Nanomaterials, Fluorescence Spectroscopy, Atomic Absorption Spectrometry, UV-VIS Spectrophotometry, Raman Spectroscopy, FT-IR.

Carbon-Dots photoluminescence studies, atomic absorption spectrometry studies in the study of heavy metals from various natural matrices

Personal skills and competences

Creation in the Tracekey web application of the orders necessary to serialize the secondary packaged units and loaded on the Mettler Toledo T2611 serialization equipment, production reporting - batch loading in the application, reporting to the EU HUB (EMVO-European Medicines Verification Organization).

-PC, Windows, Excel, and operating in SAP (application in data processing systems, ERP-CRM-Trainings skills assessment tests in new live simulations: September 2010-December 2010 -) and BASIS

Annexes

Anexa 1 – List of publicaions

Nov.2022



LIST OF PUBLICATIONS

PUBLICATIONS

Scientific portofolio

- [1] C. S. Stan, L. E. Ursu, P. Gospei (Horlescu), **C. Albu**, M. Popa, D. Sutiman, M. Secula, Facile preparation of highly luminescent composites by polymer embedding of Carbon Dots derived from N-Hydroxyphthalimide, Springer- J. of Materials Science, 52(1), pp. 185-196, 2017. doi 10.1007/s10853-016-0320-y. (Impact Factor: 2.371).
- [2] C. S. Stan, **C. Albu**, A. Coroaba, M. Popa, D. Sutiman, One step synthesis of fluorescent Carbon Dots through pyrolysis of N-hydroxysuccinimide, RSC- J. of Materials Chemistry C, 3, pp.789-795, doi: 10.1039/C4TC02382J, 2014. (Impact Factor: 5.066)
- [3] **C. Albu**, P. Horlescu, C. S. Stan, Fluorescent Carbon Dots Prepared Through Thermal Processing of Succinimide, Digest J. of Nanomaterials and Biostructures 11(1):133-139, 2016. (Impact Factor: 0,9)
- [4] P. Horlescu, C. S. Stan, D. Sutiman, C. Mita, C. Peptu, M. E. Fortuna, **C. Albu**, New Complexes of 2-(1H-1, 2, 4-Triazol-3-YL) Pyridine with Co(II), Cd(II), Rh(III) Ions: Synthesis, Structure, Properties and Potential Applications, Environmental Engineering and Management Journal 14(2), pp.383-391, 2015. (Impact Factor: 1,26)

PATENT

Proposal patent registred O.S.I.M.: „**Photopolymerizable fluorescent complexes, useful in secure paper obtaining**” (A100554/09.09.2022)

Proposal patent registred O.S.I.M.: „**Nano-composite based on carbon photoemissive structures and cycloolefinic copolymer**”.

CONFERENCE

The 8th International Conference on Advanced Materials,

ROCAM 2015 - "PHOTOLUMINESCENT SILICA MONOLITHS WITH EMBEDDED CARBON DOTS", Cristina Albu^{1,2}, Corneliu S. Stan^{*1}, Daniel Sutiman¹

19th Romanian International Conference on Chemistry and Chemical Engineering

RICCCE 19 - "PHOTOLUMINESCENT CARBON DOTS WITH BLUE TO GREEN PHOTOLUMINESCENT EMISSION" Cristina Albu^{1,2}, Corneliu S. Stan^{*1}, Daniel Sutiman¹

8th International Conference on Environmental Engineering and Management,

ICEEM 08- POLYMER - CARBON DOTS COMPOSITES WITH PH SENSITIVE FLUORESCENT EMISSION", Cristina Albu^{1,2}, Corneliu S. Stan^{*1}, Daniel Sutiman¹

Second CommScie International Conference: "Challenges for Sciences and Society in Digital Era",

(„Provocări pentru științe și societate în era digitală). **PHOTOLUMINESCENT COMPOSITE PREPARED THROUGH EMBEDDING C-DOTS IN POLY(N-VINYL-2-PYRROLIDONE) MATRIX"**, Cristina Albu^{1,2}, Corneliu S. Stan^{*1}, Daniel Sutiman¹

WORKSHOP

„**Practices publication of scientific articles**”, taken by Prof. Univ. Dr. Dorin Popa; 26 Feb. 2015; Universitatea "Alexandru Ioan Cuza" from Iasi, România.

„**Sources of financing for scientific research**”, taken by Alina Popa, 26 Feb. 2015; Universitatea "Alexandru Ioan Cuza" from Iasi, România.

„**Ethics of science. Norms, applications and casuistry**”, , taken by conf. univ. dr. Florea Ioncioaia, 19 March. 2015, Universitatea "Alexandru Ioan Cuza" from Iasi, România.

„**Text and society. The current challenges**”, , taken by prof. dr. Antonio Patraș, 30 March. 2015, Universitatea "Alexandru Ioan Cuza" from Iasi, România.

„**The relationship between artistic thinking and critical thinking. Short history**”, , taken by prof. univ. dr. Codrin Liviu Cuțitaru, 19 Jun. 2015, Universitatea "Alexandru Ioan Cuza" from Iasi, România

Workshop coordinated by editura Elsevier, in the Technical University "Gh.Asachi" from Iasi ,

"**Current trends in the publishing industry**";

"**Tips and tricks on how to write a successful paper**," taken by Lucie Vavříková, Elsevier, B.V.

"**Research management at your fingertips**";

"**ScienceDirect and Mendeley updates**" ,taken by Cristina Huidiu, Elsevier B.V.

"**What you don't know about Elsevier**"

"**From Scopus to bibliometrics**" , taken by Catalin Teoharie, Country Manager South Eastern Europe, Elsevier B.V.



PROJECT „*Bio-based porous materials for hydrogen storage and environmental applications*”, [BIOPOROMA], Project Manager: Prof.dr.habil.ing.Irina Volf, in the research team of the project: PN III PCE, nr.118/2022, that Scientific Research Assistant,from June.2022.

„*Integration of photonic conversion layers based on photoemissive nanostructured materials for improving sunlight harvesting ability of solar cells*”, [NANOSOLARCELLS], PN III COFUND, nr. 293/2022, Project Manager: CS II. dr.ing Corneliu Sergiu Stan, in the research team of the project, as a Scientific Research Assistant, from May 2022.

„*Antitumoral theranostic platforms based on Carbon Dots and polymer matrices*”, [TERADOT], PNCDI III-PCCDI nr.37PCCDI/2018 Project Manager complex Academicean Bogdan Simionescu, in the research team of the project, as a Scientific Research Assistant, in period:17.09.2020-30.09.2021.

„*Integrated support system forimproving doctoral and post-doctoral research quality in Romaniaand for advocating the role of science in society*”, Doctoral student - Member of the tharget group in the project POSDRU/159/1.5/s/133652, in period: 01.12 2014 – 15.12 2015.

„*Innovative electroluminescent nanocomposites for a new approach in polymer based light emitting devices type of PLED*”, proieject cod: 335/5.10.2011 – Phd.

Nov. 2022

Dr. Ing.chim Cristina ALBU

