

EUROPEAN CURRICULUM VITAE



Name
Address
Telephone
Fax
E-mail
Nationality
Date of birth

PERSONAL INFORMATION

LIVIU SACARESCU

Decebal Street Nr. 36, Building Z10, Entrance B, 2nd Floor, Apartment 9, IASI, ROMANIA

+40 – 332 – 802052

*40-232-211299

livius@icmpp.ro

Romanian

[Day, month, year] 18.07.1957

WORK EXPERIENCE

- Dates (from – to)
 - Name and address of employer
 - Type of business or sector
 - Occupation or position held
 - Main activities and responsibilities
- 2017 –**
Romanian Academy, Petru Poni Institute of Macromolecular Chemistry, Aleea Gr. Ghica Voda 41A, Iasi, RO 700487, Romania
Research, Inorganic Polymers Department
Senior Scientist, CS I – Research team manager
Fundamental research studies concerning silicon based polymers synthesis and materials.
Coordination and sustaining of activities according to research projects.
- 2008 – 2017**
Romanian Academy, Petru Poni Institute of Macromolecular Chemistry, Aleea Gr. Ghica Voda 41A, Iasi, RO 700487, Romania
Research, Inorganic Polymers Department
Senior Scientist, CSII – Research team manager
Fundamental research studies concerning silicon based polymers synthesis and materials.
Coordination and sustaining of activities according to research projects.
- 1998 – 2008**
Romanian Academy, Petru Poni Institute of Macromolecular Chemistry, Aleea Gr. Ghica Voda 41A, Iasi, RO 700487, Romania
Research, Inorganic Polymers Department
Senior Scientist, CSIII – Research team manager
Fundamental research studies concerning silicon based polymers synthesis and materials.
Coordination and sustaining of activities according to research projects.
- 1987 – 1998**
Romanian Academy, Petru Poni Institute of Macromolecular Chemistry, Aleea Gr. Ghica Voda 41A, Iasi, RO 700487, Romania
Research, Inorganic Polymers Department
Research Scientist
Fundamental research studies concerning silicon based polymers synthesis and characterization.
- 1984 - 1987**
Romanian Academy, Petru Poni Institute of Macromolecular Chemistry, Aleea Gr. Ghica Voda 41A, Iasi, RO 700487, Romania
Research, Inorganic Polymers Department
Engineer
Research activities concerning developments in the field of silicon based polymers and materials for industry

- Dates (from – to)
- Name and address of employer
 - Type of business or sector
 - Occupation or position held
- Main activities and responsibilities

1982 – 1984

TEROM SA, Calea Chisnaului, 29, Iasi
 engineer
 engineer
 Managing activities in Fibers I Production Section

EDUCATION AND TRAINING

- Dates (from – to)
- Name and type of organisation providing education and training
- Principal subjects/occupational skills covered
 - Title of qualification awarded
- Level in national classification (if appropriate)

2007-2008

Romanian Academy, Petru Poni Institute of Macromolecular Chemistry, Iasi
 Research in the field of silicon based polymers with polysilane structure
 Senior scientist- Promotion to CSII in national competition
 Ranked as No. I

- Dates (from – to)
- Name and type of organisation providing education and training
- Principal subjects/occupational skills covered
 - Title of qualification awarded
- Level in national classification (if appropriate)

1997-1998

Romanian Academy, Petru Poni Institute of Macromolecular Chemistry, Iasi
 Research in the field of silicon compounds
 Senior scientist- Promotion to CSIII

- Dates (from – to)
- Name and type of organisation providing education and training
- Principal subjects/occupational skills covered
 - Title of qualification awarded
- Level in national classification (if appropriate)

1992 – 1997

Romanian Academy, Petru Poni Institute of Macromolecular Chemistry, Iasi
 Research in the field of silicon compounds with cyclocarbosiloxane bonds
 PhD in Polymer Chemistry and Technology

- Dates (from – to)
- Name and type of organisation providing education and training
- Principal subjects/occupational skills covered
 - Title of qualification awarded
- Level in national classification (if appropriate)

1984 – 1987

Romanian Academy, Petru Poni Institute of Macromolecular Chemistry, Iasi
 Polymer Chemistry
 Research Scientist

- Dates (from – to)
- Name and type of organisation providing education and training
- Principal subjects/occupational skills covered
 - Title of qualification awarded
- Level in national classification (if appropriate)

1977-1982

Al. I. Cuza University of Iasi, Faculty of Chemical Engineering
 Organic Chemistry Technology
 BSc in Chemical Engineering

PERSONAL SKILLS AND COMPETENCES

*Acquired in the course of life and career
but not necessarily covered by formal
certificates and diplomas.*

MOTHER TONGUE OTHER LANGUAGES

- Reading skills
- Writing skills
- Verbal skills

- Reading skills
- Writing skills
- Verbal skills

SOCIAL SKILLS AND COMPETENCES

*Living and working with other people, in
multicultural environments, in positions
where communication is important and
situations where teamwork is essential
(for example culture and sports), etc.*

ORGANISATIONAL SKILLS AND COMPETENCES

*Coordination and administration of
people, projects and budgets; at work, in
voluntary work (for example culture and
sports) and at home, etc.*

TECHNICAL SKILLS AND COMPETENCES

*With computers, specific kinds of
equipment, machinery, etc.*

ARTISTIC SKILLS AND COMPETENCES

Music, writing, design, etc.

OTHER SKILLS AND COMPETENCES

Competences not mentioned above.

DRIVING LICENCE(S)

ANNEXES

ROMANIAN

ENGLISH

Excellent

Good

Good

FRENCH

Excellent

Good

Good

Good verbal and written communication of ideas and findings. Excellent analysis skills of complex phenomena. Excellent team managing abilities. Very good at working in a cooperative environment.

Experience in working with teams distributed across different research centers. Experience in project based research work, including direction of junior staff. Have undertaken several projects for the European Commission concerning preparation of research framework program fp7.

Experience in managing large projects involving institutional and scientific reorganization as well as research infrastructure modernization.

Experience in:

1. Polysilanes synthesis in heterogeneous and homogeneous systems; Organic synthesis using microwaves and ultrasounds irradiation; Synthesis of polysilane-metal nanocomposites; Molecular modeling of silicon based oligomers and polymers.
2. Materials characterization methods: UV-VIS spectrometry, FTIR, ¹H-NMR, gel permeation chromatography (GPC), gas-chromatography (GC), differential scanning calorimetry (DSC), thermogravimetry (TGA, DTA, DTG), polarized light microscopy (POL).
3. Advanced methods applied in analysis of nanostructured polymer based materials: TEM imaging combined with EDX, tomography and cryoscopy; SAXS technique for soft nanostructured materials.

Music: blues and ballads.

SF books: time travel

Good knowledge of ancient history; passion for old civilizations philosophy and civilization. Interested in social and economic evolution of the Western cultures.

Full driving license.

List of scientific achievements attached

04.09.2020

Dr. Liviu Sacarescu

Representative publications (ISI rated)

Polydiphenylsilanes bearing photosensitive azocrown groups, **L. Sacarescu**, R. Ardeleanu, G. Sacarescu, M. Simionescu, N. Hurduc, *Chem. Commun.*, 2006.

Structural and Optical Properties of Polyhydrosilanes, **Liviu Sacarescu**, Andreas Bockholt, Angeliki Siokou, Mihaela Simionescu, Gabriela Sacarescu, *Macromol. Chem. Phys.*, 2009.

Photocatalytic synthesis of silver nanoparticles using polysilane initiator, **L. Sacarescu**, M. Simionescu, G. Sacarescu, E. G. Hitruc, *J Nanopart Res*, 2011.

Thermodegradability of soluble polydiphenylsilane copolymers, **L. Sacarescu**, C. Cojocaru, G. Sacarescu, M. Simionescu, M. Soroceanu, V. Harabagiu, *Polymer Degradation and Stability*, 2014.

Synthesis and Properties of Polydiphenylsilane/Fullerene C60 Nanocomposite, **L. Sacarescu**, S. Kostromin and S. Bronnikov, *Materials Chemistry and Physics*, 2015.

Fluorescence detection system based on silicon quantum dots-polysilane nanocomposites, **L. Sacarescu**, G. Roman, G. Sacarescu, M. Simionescu, *EXPRESS Polym. Lett.*, 2016.

Dual-emissive polydiphenylsilane nanocomposite: Effect of N,N'-bis(4-hydroxysalicylidene)-1,2-phenylenediamine-Zn complex, **L. Sacarescu**, C. Cojocaru, R. Ardeleanu, M. Fortuna, G. Săcărescu, M. Simionescu, *Polym. Adv. Technol.*, 2016.

Star-epoxy mesogen with 1,3,5-triazine core: A model of A₄B₃ fractal polymerization in a liquid crystalline thermoset media, J.-M. Pin, N. Zbirrazzouli, **L. Sacarescu**, A. Mija, *Polymer Chemistry*, 2016.

New dansyl labeled polysilane: Synthesis, characterization and sensor application, A. L. Chibac, M. Simionescu, G. Sacarescu, E. C. Buruiana, **L. Sacarescu**, *Eur. Polym. J.*, 2017.

Bichromophoric pyrazoline derivative with solvent-selective photoluminescence quenching, A. L. Chibac, G. Roman, C. Cojocaru, S. Shova, G. Sacarescu, M. Simionescu, **L. Sacarescu**, *J. Mol. Liq.*, 2019.

Pyrazoline based chloride sensor for body fluids screening, A.L. Chibac, G. Roman, C. Cojocaru, G. Sacarescu, M. Simionescu, **L. Sacarescu**, *J. Mol. Liq.*, 2019.

Nano-assembled oligosilane-pyrazoline structures and their optical properties, A.L. Chibac-Scutaru, C. Cojocaru, A. Coroaba, G. Roman, G. Sacarescu, M. Simionescu, **L. Sacarescu**, *Journal of Molecular Liquids*, 2020.